

	  MS ISO/IEC 17025 TESTING SAMM No. 0826	  ACCREDITED CERTIFICATE 2518.05
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**DECLARATION OF COMPLIANCE SAR ASSESSMENT PCII Report Part 2 of 2**

<b>Motorola Solutions Inc.</b> <b>EME Test Laboratory</b> Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.	<b>Date of Report:</b> 01/14/2022 <b>Report Revision:</b> C
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<b>Responsible Engineer:</b>	Puteri Alifah Ilyana Binti Nor Rahim (EME Engineer)
<b>Report Author:</b>	Kin Kting Lee (EME Technician)
<b>Date/s Tested:</b>	11/24/2021 – 12/06/2021,12/08/2021,12/13/2021-12/17/2021
<b>Manufacturer:</b>	Motorola Solutions Inc.
<b>DUT Description:</b>	Handheld Portable – APX8000 ST U/V/7_800 M1.5 BLK, APX8000 ST U/V/7_800 M3.5 BLK
<b>Test TX mode(s):</b>	CW (PTT), Bluetooth, and WLAN 802.11b/g/n
<b>Max. Power output:</b>	Refer Table 4
<b>Tx Frequency Bands:</b>	LMR 136-174 MHz, 380-520 MHz, 764-805 MHz, 806-870 MHz; Bluetooth 2.402-2.480 GHz; WLAN 802.11 b/g/n 2.400-2.483.5 GHz
<b>Signaling type:</b>	FM, TDMA, FHSS (Bluetooth), 802.11b/g/n (WLAN)
<b>Model(s) Tested:</b>	H91TGD9PW5AN (PNUW1012E), H91TGD9PW7AN (PNUW1014E)
<b>Model(s) Certified:</b>	Refer Table 1
<b>Serial Number(s):</b>	579TXV0004, 579TXV0026, 579TXV0013, 579TXV0005
<b>Classification:</b>	Occupational/Controlled
<b>Applicant Name:</b>	Motorola Solutions Inc.
<b>Applicant Address:</b>	8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322
<b>FCC ID:</b>	AZ489FT7061; This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
<b>IC:</b>	109U-89FT7061; This report contains results that are immaterial for ISED Equipment approval, which are clearly identified.
<b>ISED Test Site registration:</b>	24843
<b>FCC Test Firm Registration Number:</b>	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 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.

 <b>Saw Sun Hock (Approved Signatory)</b> <b>Approval Date: 01/14/2022</b>	
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## Appendix D

### System Verification Check Scans

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/30/2021 6:41:14 AM

Robot#: DASY5-PG-2 | Run#: MFR-SYSP-150B-211130-09  
Dipole Model#: CLA150  
Phantom#: ELI4 1103  
Tissue Temp: 21.7 (C)  
Serial#: 4010  
Test Freq: 150.0000 (MHz)  
Start Power: 1000 (mW)  
Rotation (1D): 0.16 dB  
Adjusted SAR (1W): 3.97 mW/g (1g)

Comments:

Communication System Band: CLA150, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 150 \text{ MHz}$ ;  $\sigma = 0.77 \text{ S/m}$ ;  $\epsilon_r = 59.3$ ;  $\rho = 1000 \text{ kg/m}^3$   
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 150 MHz, ConvF(13.51, 13.51, 13.51) @ 150 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (81x81x1):**

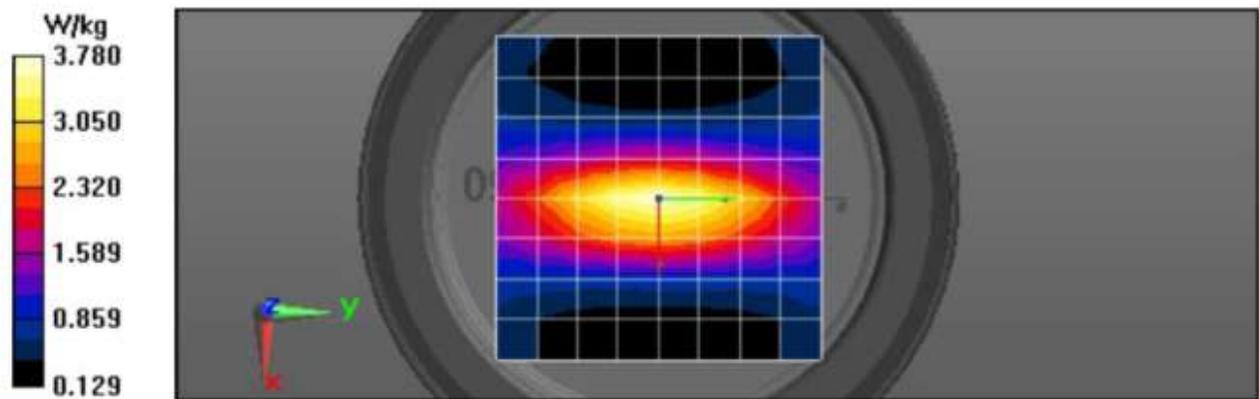
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Reference Value = 70.79 V/m; Power Drift = -0.01 dB  
**Fast SAR: SAR(1 g) = 3.93 W/kg; SAR(10 g) = 2.84 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 3.89 W/kg

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

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 70.79 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 5.85 W/kg  
**SAR(1 g) = 3.97 W/kg; SAR(10 g) = 2.64 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 = 69%  
Maximum value of SAR (measured) = 3.85 W/kg

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

grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$   
Maximum value of SAR (measured) = 3.86 W/kg



### Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/1/2021 5:50:24 AM

Robot#: DASY5-PG-2 | Run#: MFR-SYSP-150B-211201-05  
 Dipole Model#: CLA150  
 Phantom#: ELI4 1103  
 Tissue Temp: 20.2(C)  
 Serial#: 4010  
 Test Freq: 150.0000 (MHz)  
 Start Power: 1000 (mW)  
 Rotation (1D): 0.18 dB  
 Adjusted SAR (1W): 3.95 mW/g (1g)

Comments:

Communication System Band: CLA150, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 150 \text{ MHz}$ ;  $\sigma = 0.77 \text{ S/m}$ ;  $\epsilon_r = 59.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 150 MHz, ConvF(13.51, 13.51, 13.51) @ 150 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

#### Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (81x81x1):

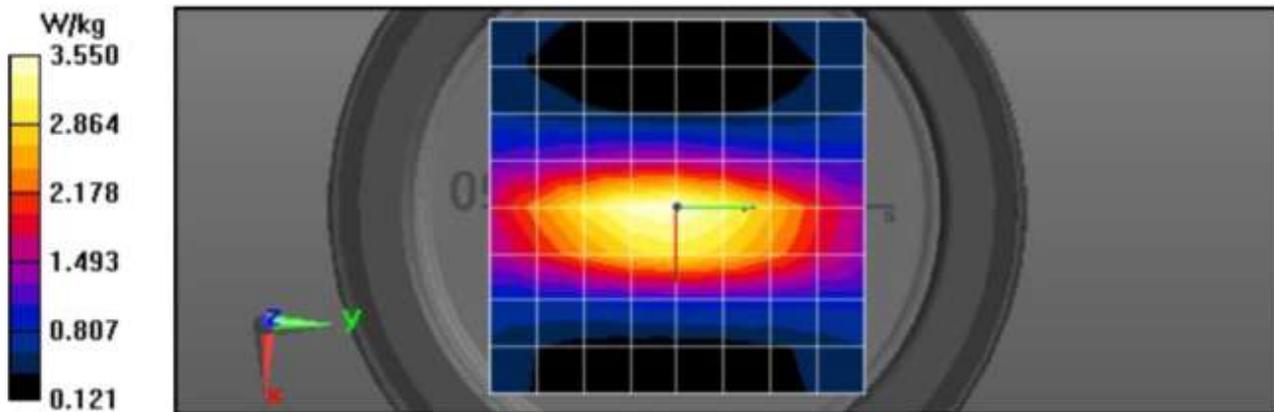
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Reference Value = 70.54 V/m; Power Drift = -0.03 dB  
**Fast SAR: SAR(1 g) = 3.9 W/kg; SAR(10 g) = 2.81 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 3.88 W/kg

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

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 70.54 V/m; Power Drift = -0.03 dB  
 Peak SAR (extrapolated) = 5.84 W/kg  
**SAR(1 g) = 3.95 W/kg; SAR(10 g) = 2.62 W/kg** (SAR corrected for target medium)  
 Smallest distance from peaks to all points 3 dB below = 22.3 mm  
 Ratio of SAR at M2 to SAR at M1 = 68.8%  
 Maximum value of SAR (measured) = 3.82 W/kg

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

grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$   
 Maximum value of SAR (measured) = 3.83 W/kg



### Motorola Solutions, Inc. EME Laboratory

Date/Time: 11/24/2021 9:15:09 PM

Robot#: DASY5-PG-2 | Run#: MFR-SYSP-450B-211124-16  
 Dipole Model# D450V3  
 Phantom#: EL14 1040  
 Tissue Temp: 21.2 (C)  
 Serial#: 1054  
 Test Freq: 450.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.11 dB  
 Adjusted SAR (1W): 4.64 mW/g (1g)

Comments:

Communication System Band: Dipole 450, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.93$  S/m;  $\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 450 MHz, ConvF(11.86, 11.86, 11.86) @ 450 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

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

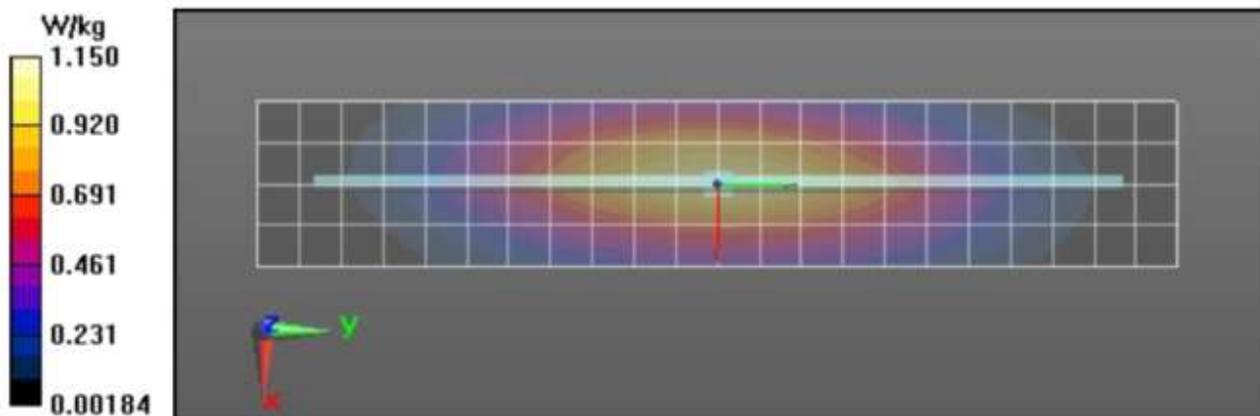
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 35.27 V/m; Power Drift = -0.03 dB  
**Fast SAR: SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.803 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.15 W/kg

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 35.27 V/m; Power Drift = -0.03 dB  
 Peak SAR (extrapolated) = 1.68 W/kg  
**SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.786 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 = 69.3%  
 Maximum value of SAR (measured) = 1.15 W/kg

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

grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.15 W/kg



**Motorola Solutions, Inc. EME Laboratory**  
Date/Time: 11/25/2021 10:48:57 AM

Robot#: DASY5-PG-2 | Run#: AF(AMF)-SYSP-450B-211125-08  
Dipole Model# D450V3  
Phantom#: ELI4 1040  
Tissue Temp: 21.0 (C)  
Serial#: 1054  
Test Freq: 450.0000 (MHz)  
Start Power: 250 (mW)  
Rotation (1D): 0.120 dB  
Adjusted SAR (1W): 4.76 mW/g (1g)

Comments:

Communication System Band: Dipole 450, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.96$  S/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 450 MHz, ConvF(11.86, 11.86, 11.86) @ 450 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

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

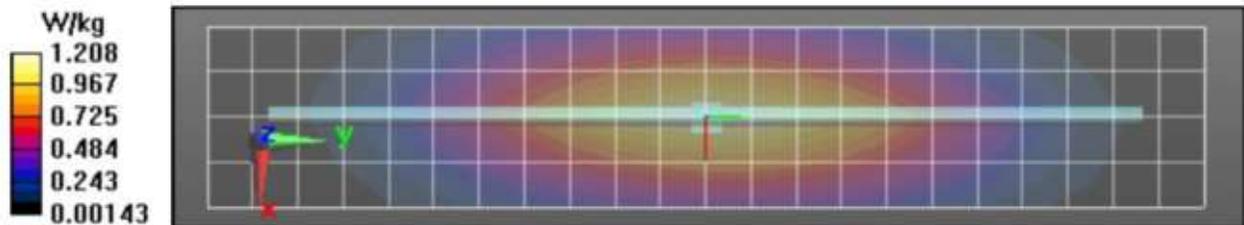
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 35.35 V/m; Power Drift = 0.05 dB  
**Fast SAR: SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.826 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 1.21 W/kg

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 35.35 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 1.77 W/kg  
**SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.815 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 = 69.4%  
Maximum value of SAR (measured) = 1.22 W/kg

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

grid: dx=20mm, dy=20mm, dz=10mm  
Maximum value of SAR (measured) = 1.22 W/kg



### Motorola Solutions, Inc. EME Laboratory

Date/Time: 11/26/2021 11:37:58 AM

Robot#: DASY5-PG-2 | Run#: AF(AMF)-SYSP-450B-211126-13  
 Dipole Model#: D450V3  
 Phantom#: ELI4 1040  
 Tissue Temp: 20.4 (C)  
 Serial#: 1054  
 Test Freq: 450.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.12 dB  
 Adjusted SAR (1W): 4.60 mW/g (1g)

Comments:

Communication System Band: Dipole 450, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.93$  S/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 450 MHz, ConvF(11.86, 11.86, 11.86) @ 450 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

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

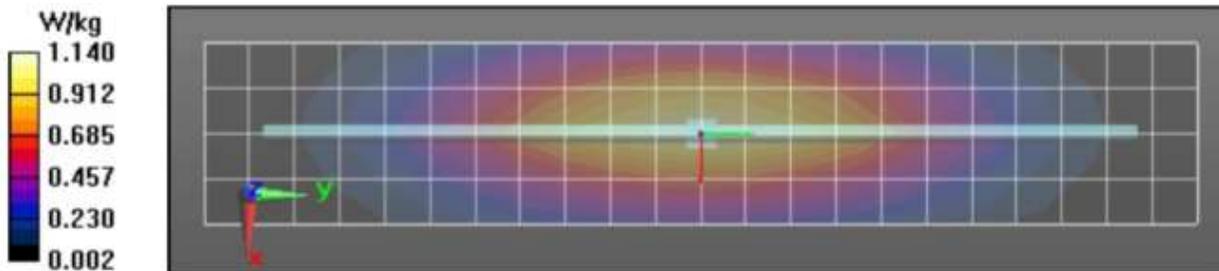
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 35.22 V/m; Power Drift = -0.04 dB  
**Fast SAR: SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.803 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.15 W/kg

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 35.22 V/m; Power Drift = -0.04 dB  
 Peak SAR (extrapolated) = 1.66 W/kg  
**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.788 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 = 69.8%  
 Maximum value of SAR (measured) = 1.14 W/kg

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

grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.14 W/kg



### Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/3/2021 7:39:12 PM

Robot#: DASY5-PG-2 | Run#: AR(SAN)-SYSP-450H-211203-17  
 Dipole Model#: D450V3  
 Phantom#: ELI4 1108  
 Tissue Temp: 20.8 (C)  
 Serial#: 1054  
 Test Freq: 450.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.120 dB  
 Adjusted SAR (1W): 4.72 mW/g (1g)

Comments:

Communication System Band: Dipole 450, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 42.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 450 MHz, ConvF(11.65, 11.65, 11.65) @ 450 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

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

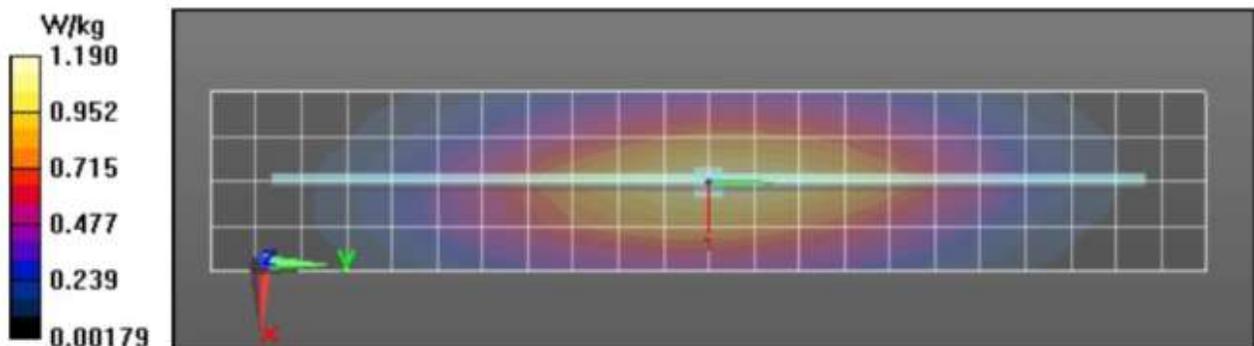
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 36.66 V/m; Power Drift = 0.03 dB  
**Fast SAR: SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.819 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.19 W/kg

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 36.66 V/m; Power Drift = 0.03 dB  
 Peak SAR (extrapolated) = 1.76 W/kg  
**SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.798 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 = 68.3%  
 Maximum value of SAR (measured) = 1.19 W/kg

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

grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.19 W/kg



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 12/4/2021 1:54:35 PM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-SYSP-450H-211204-04  
 Dipole Model# D450V3  
 Phantom#: ELI4 1108  
 Tissue Temp: 20.5 (C)  
 Serial#: 1054  
 Test Freq: 450.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.130 dB  
 Adjusted SAR (1W): 4.76 mW/g (1g)

Comments:

Communication System Band: Dipole 450, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 43.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 450 MHz, ConvF(11.65, 11.65, 11.65) @ 450 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

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

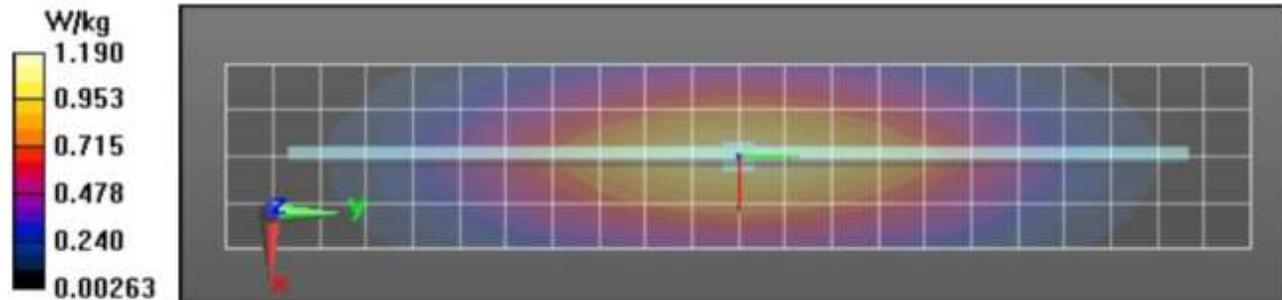
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 36.71 V/m; Power Drift = 0.02 dB  
**Fast SAR: SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.820 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.19 W/kg

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 36.71 V/m; Power Drift = 0.02 dB  
 Peak SAR (extrapolated) = 1.75 W/kg  
**SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.804 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 = 68.7%  
 Maximum value of SAR (measured) = 1.19 W/kg

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

grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 1.19 W/kg



### Motorola Solutions, Inc. EME Laboratory

Date/Time: 11/28/2021 3:39:27 PM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-SYSP-835B-211128-15  
 Dipole Model#: D835V2  
 Phantom#: ELI4 1090  
 Tissue Temp: 21.3 (C)  
 Serial#: 2d029  
 Test Freq: 835.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.110 dB  
 Adjusted SAR (1W): 9.44 mW/g (1g)

Comments:

Communication System Band: Dipole 835, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.99$  S/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 835 MHz, ConvF(10.08, 10.08, 10.08) @ 835 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

#### Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x141x1):

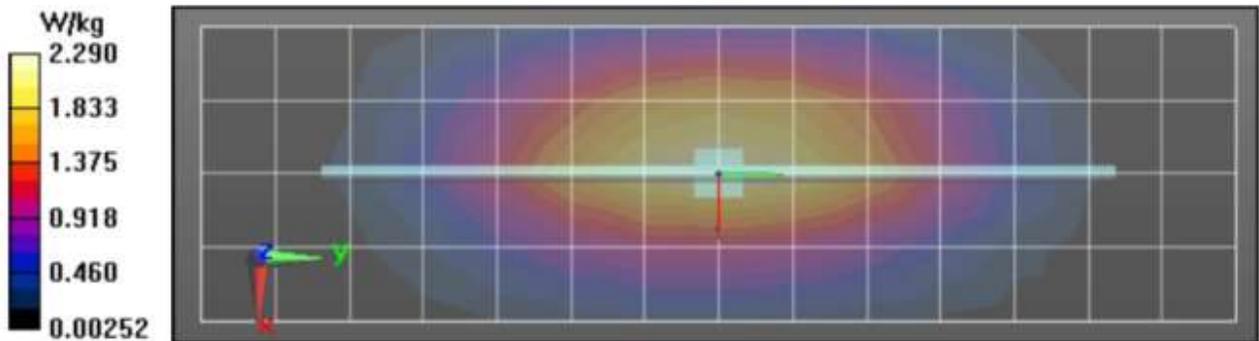
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 48.88 V/m; Power Drift = 0.02 dB  
**Fast SAR: SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.55 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 2.37 W/kg

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 48.88 V/m; Power Drift = 0.02 dB  
 Peak SAR (extrapolated) = 3.51 W/kg  
**SAR(1 g) = 2.36 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 = 68.4%  
 Maximum value of SAR (measured) = 2.37 W/kg

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

grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 2.38 W/kg



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/29/2021 2:59:35 PM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-SYSP-835B-211129-16  
Dipole Model# D835V2  
Phantom#: ELI4 1090  
Tissue Temp: 21.7 (C)  
Serial#: 2d029  
Test Freq: 835.0000 (MHz)  
Start Power: 250 (mW)  
Rotation (1D): 0.110 dB  
Adjusted SAR (1W): 10.48 mW/g (1g)

Comments:

Communication System Band: Dipole 835, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.99 \text{ S/m}$ ;  $\epsilon_r = 55.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 835 MHz, ConvF(10.08, 10.08, 10.08) @ 835 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x141x1):**

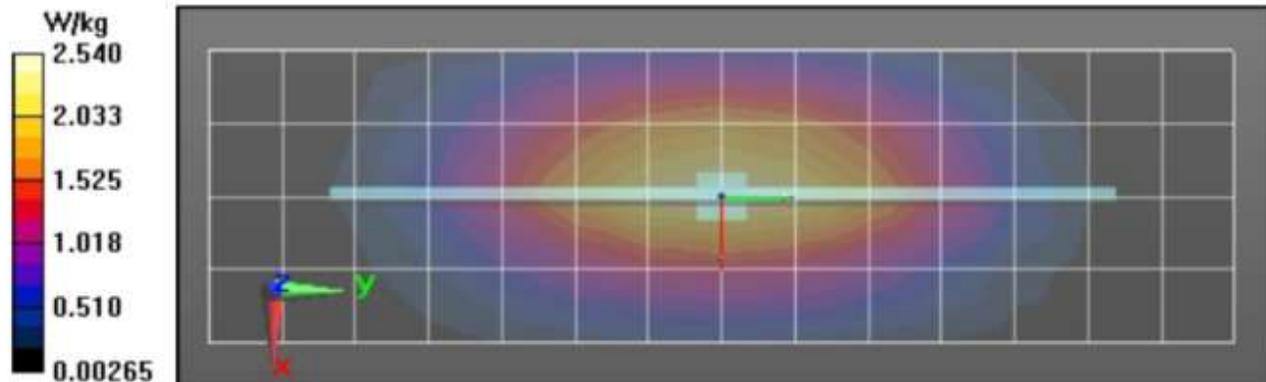
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Reference Value = 50.93 V/m; Power Drift = 0.07 dB  
**Fast SAR: SAR(1 g) = 2.58 W/kg; SAR(10 g) = 1.71 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 2.59 W/kg

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

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 50.93 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 3.86 W/kg  
**SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.72 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 = 68.4%  
Maximum value of SAR (measured) = 2.61 W/kg

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

grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$   
Maximum value of SAR (measured) = 2.62 W/kg



### Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/5/2021 12:30:05 PM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-SYSP-835H-211205-13  
 Dipole Model# D835V2  
 Phantom#: ELI4 1011  
 Tissue Temp: 20.2 (C)  
 Serial#: 4D029  
 Test Freq: 835.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.120 dB  
 Adjusted SAR (1W): 9.24 mW/g (1g)

Comments:

Communication System Band: Dipole 835, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.93$  S/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 835 MHz, ConvF(9.98, 9.98, 9.98) @ 835 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

#### Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x131x1):

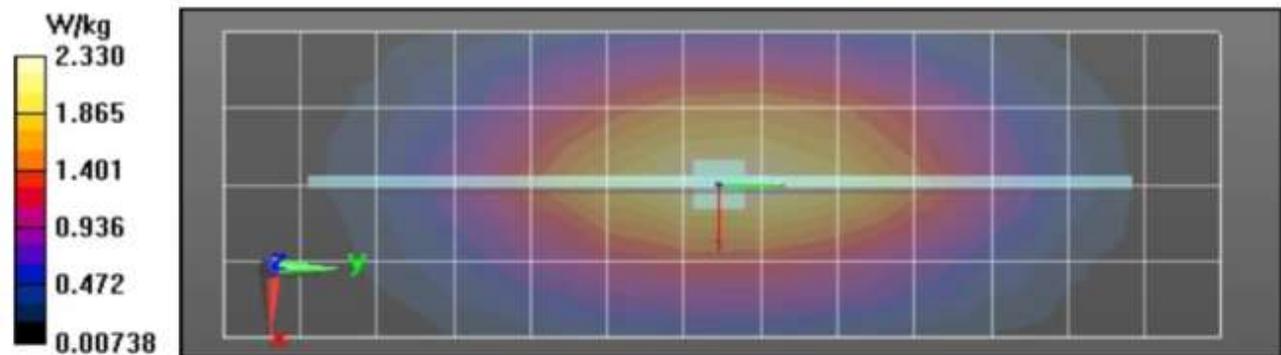
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 50.61 V/m; Power Drift = -0.07 dB  
**Fast SAR: SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.54 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 2.37 W/kg

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

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 50.61 V/m; Power Drift = -0.07 dB  
 Peak SAR (extrapolated) = 3.55 W/kg  
**SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.51 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 = 66.8%  
 Maximum value of SAR (measured) = 2.35 W/kg

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

grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 2.35 W/kg



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 12/16/2021 1:41:21 AM

Robot#: DASY5-PG-2 | Run#: AM-SYSP-835B-211216-02  
Dipole Model# D835V2  
Phantom#: ELI4 1090  
Tissue Temp: 22.3 (C)  
Serial#: 4d029  
Test Freq: 835.0000 (MHz)  
Start Power: 250 (mW)  
Rotation (1D): 0.11 dB  
Adjusted SAR (1W): 9.96 mW/g (1g)

Comments:

Communication System Band: Dipole 835, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.97 \text{ S/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 835 MHz, ConvF(10.08, 10.08, 10.08) @ 835 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x121x1):**

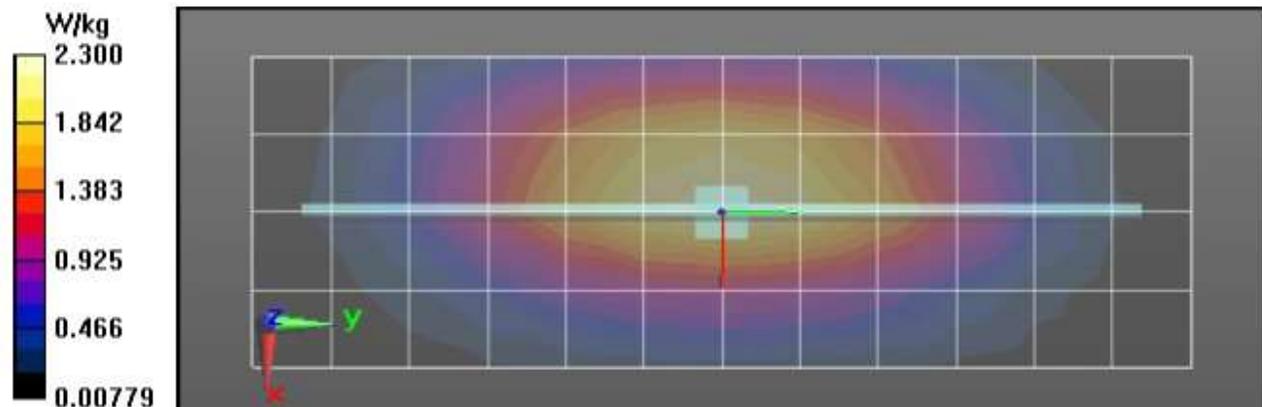
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Reference Value = 50.08 V/m; Power Drift = 0.09 dB  
**Fast SAR: SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.62 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 2.44 W/kg

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

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 50.08 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 3.67 W/kg  
**SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.64 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 = 68.2%  
Maximum value of SAR (measured) = 2.48 W/kg

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

grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$   
Maximum value of SAR (measured) = 2.48 W/kg



### Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/17/2021 10:57:45 AM

Robot#: DASY5-PG-2 | Run#: MFR-SYSP-835B-211217-01  
 Dipole Model# D835V2  
 Phantom#: EL14 1090  
 Tissue Temp: 22.3 (C)  
 Serial#: 4d029  
 Test Freq: 835.0000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.088 dB  
 Adjusted SAR (1W): 9.32 mW/g (1g)

Comments:

Communication System Band: Dipole 835, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.99 \text{ S/m}$ ;  $\epsilon_r = 52.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 835 MHz, ConvF(10.08, 10.08, 10.08) @ 835 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

#### Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x121x1):

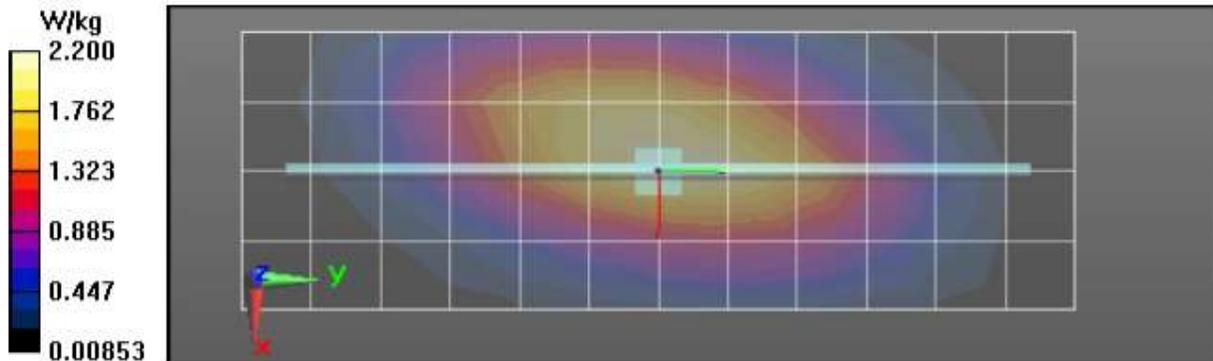
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Reference Value = 48.65 V/m; Power Drift = 0.03 dB  
**Fast SAR: SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.53 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 2.33 W/kg

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

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 48.65 V/m; Power Drift = 0.03 dB  
 Peak SAR (extrapolated) = 3.48 W/kg  
**SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.54 W/kg** (SAR corrected for target medium)  
 Smallest distance from peaks to all points 3 dB below = 19.2 mm  
 Ratio of SAR at M2 to SAR at M1 = 68.3%  
 Maximum value of SAR (measured) = 2.36 W/kg

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

grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$   
 Maximum value of SAR (measured) = 2.36 W/kg



### Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/14/2021 6:56:31 PM

Robot#: DASY5-PG-2 | Run#: MFR-SYSP-2450H-211214-09  
Dipole Model#: D2450V2  
Phantom#: ELI4 1028  
Tissue Temp: 21.0(C)  
Serial#: 782  
Test Freq: 2450.0000(MHz)  
Start Power: 250(mW)  
Rotation (1D): 0.12 dB  
Adjusted SAR (1W): 52.00 mW/g (1g)

Comments:

Communication System Band: Dipole 2450, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.87$  S/m;  $\epsilon_r = 36$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 2450 MHz, ConvF(7.63, 7.63, 7.63) @ 2450 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**2-3 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (51x101x1):** Interpolated

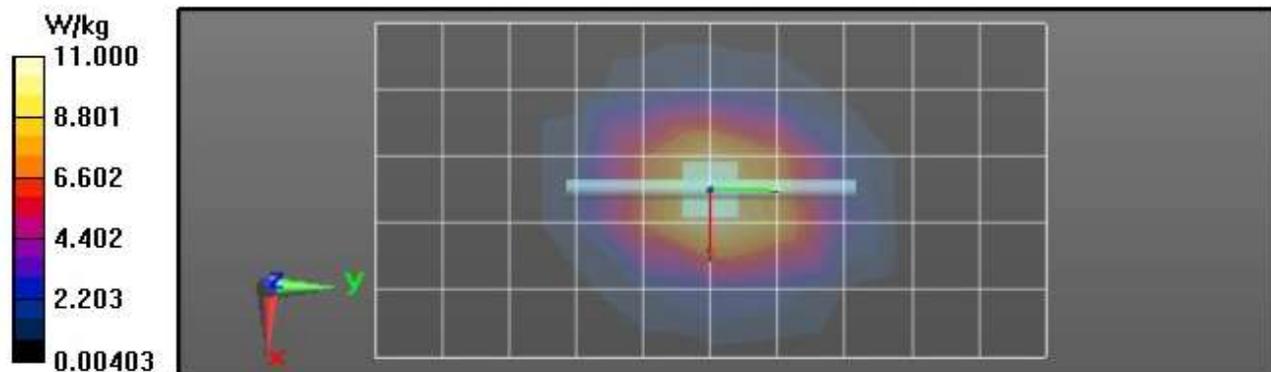
grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 84.61 V/m; Power Drift = -0.03 dB  
**Fast SAR: SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.28 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 14.1 W/kg

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

grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 84.61 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 28.6 W/kg  
**SAR(1 g) = 13 W/kg; SAR(10 g) = 6.09 W/kg** (SAR corrected for target medium)  
Smallest distance from peaks to all points 3 dB below = 10.4 mm  
Ratio of SAR at M2 to SAR at M1 = 49%  
Maximum value of SAR (measured) = 13.2 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) = 13.3 W/kg



**Motorola Solutions, Inc. EME Laboratory**  
Date/Time: 12/15/2021 10:45:00 AM

Robot#: DASY5-PG-2 | Run#: MHI-SYSP-2450B-211215-02  
Dipole Model# D2450V2  
Phantom#: EL14 1022  
Tissue Temp: 20.9(C)  
Serial#: 782  
Test Freq: 2450.0000(MHz)  
Start Power: 250(mW)  
Rotation (1D): 0.11dB  
Adjusted SAR (1W): 51.20mW/g (1g)

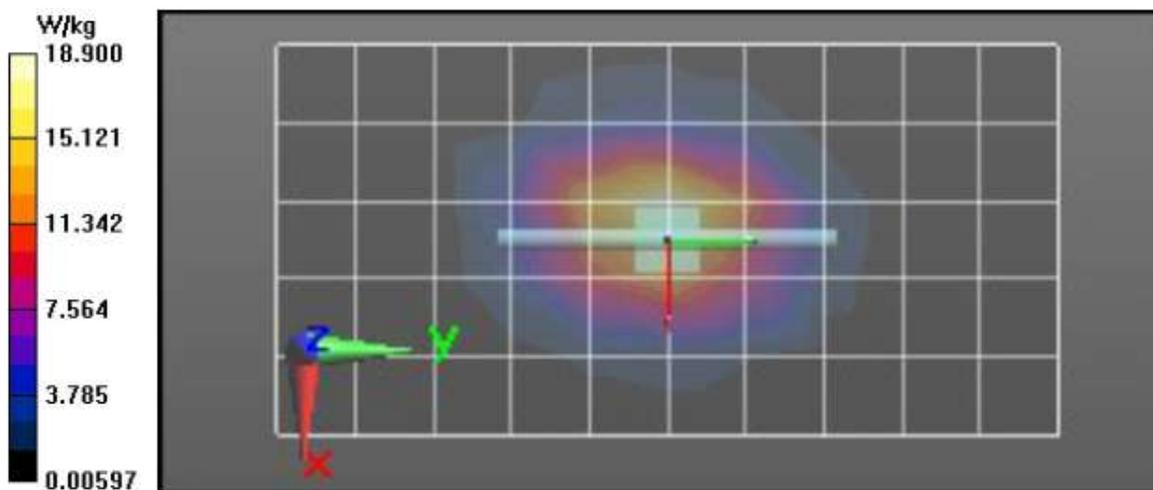
Comments:

Communication System Band: Dipole 2450, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.03$  S/m;  $\epsilon_r = 48.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 2450 MHz, ConvF(7.76, 7.76, 7.76) @ 2450 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**2-3 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (51x101x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Reference Value = 79.59 V/m; Power Drift = 0.06 dB  
**Fast SAR: SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.31 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 23.0 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 = 79.59 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 28.8 W/kg  
**SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.9 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 = 46.3%  
Maximum value of SAR (measured) = 22.9 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) = 22.9 W/kg



## Appendix E DUT Scans

### Assessments at the FCC VHF Body - Table 19

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/1/2021 3:17:46 AM

Robot#: DASY5-PG-2 | Run#: MFR-AB-211201-03#  
 Model#: H91TGD9PW5AN (PNUW1012E)  
 Phantom#: ELI4 1103  
 Tissue Temp: 21.6 (C)  
 Serial#: 579TXV0004  
 Antenna: NAR6594A  
 Test Freq: 156.45 (MHz)  
 Battery: NNTN7573A  
 Carry Acc: HLN6875A  
 Audio Acc: None  
 Start Power: 6.60 (W)

Comments:

Communication System Band: APX8000 VHF, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 156 \text{ MHz}$ ;  $\sigma = 0.77 \text{ S/m}$ ;  $\epsilon_r = 59.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 156.45 MHz, ConvF(13.51, 13.51, 13.51) @ 156.45 MHz

Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (81x311x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Reference Value = 39.89 V/m; Power Drift = -0.22 dB

**Fast SAR: SAR(1 g) = 3.58 W/kg; SAR(10 g) = 2.29 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.15 W/kg

**Below 2 GHz-Rev.3/Ab 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 = 39.89 V/m; Power Drift = -0.24 dB

Peak SAR (extrapolated) = 18.1 W/kg

**SAR(1 g) = 5.25 W/kg; SAR(10 g) = 2.16 W/kg** (SAR corrected for target medium)

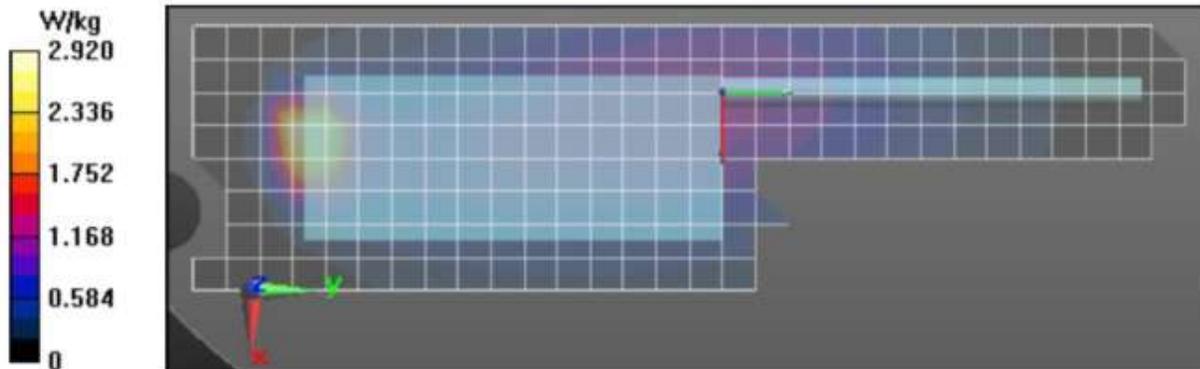
Smallest distance from peaks to all points 3 dB below = 8.1 mm

Ratio of SAR at M2 to SAR at M1 = 39.1%

Maximum value of SAR (measured) = 4.70 W/kg

**Below 2 GHz-Rev.3/Ab 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) = 4.73 W/kg



Assessments at the FCC VHF Face - Table 19

Motorola Solutions, Inc. EME Laboratory  
Date/Time: 12/5/2021 9:39:09 AM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-FACE-211205-10  
Model#: H91TGD9PW7AN (PNUW1014E)  
Phantom#: ELI4 1028  
Tissue Temp: 20.2 (C)  
Serial#: 579TXV0026  
Antenna: NAR6594A  
Test Freq: 173.4000 (MHz)  
Battery: NNTN8092A  
Carry Acc: None; Radio at back  
Audio Acc: None  
Start Power: 6.60 (W)

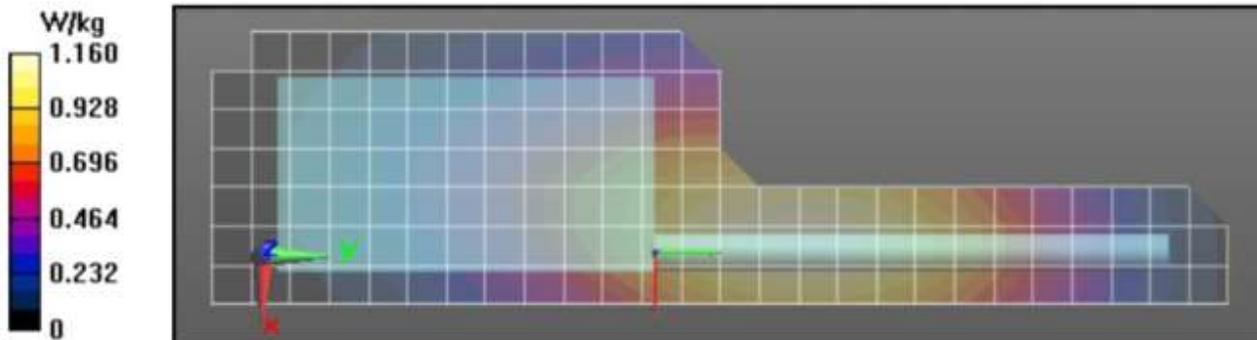
Comments:

Communication System Band: APX8000 VHF, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used: f = 173 MHz;  $\sigma = 0.74$  S/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 173.4 MHz, ConvF(13.84, 13.84, 13.84) @ 173.4 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (71x291x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 38.97 V/m; Power Drift = -0.15 dB  
**Fast SAR: SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.931 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 1.17 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 = 38.97 V/m; Power Drift = -0.16 dB  
Peak SAR (extrapolated) = 1.45 W/kg  
**SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.938 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 = 79.5%  
Maximum value of SAR (measured) = 1.15 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) = 1.15 W/kg



Assessments at the FCC UHF R1 Body - Table 21

Motorola Solutions, Inc. EME Laboratory

Date/Time: 11/25/2021 9:21:31 AM

Robot#: DASY5-PG-2 | Run#: AF-AB-211125-07#  
 Model#: H91TGD9PW5AN (PNUW1012E)  
 Phantom#: ELI4 1040  
 Tissue Temp: 22.8 (C)  
 Serial#: 579TXV0004  
 Antenna: FAF5259A  
 Test Freq: 406.1250 (MHz)  
 Battery: NNTN7038B  
 Carry Acc: NTN8266B  
 Audio Acc: NNTN8575A  
 Start Power: 5.69 (W)

Comments:

Communication System Band: APX8000 UHF, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 406$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 55.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 406.125 MHz, ConvF(11.86, 11.86, 11.86) @ 406.125 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (81x211x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

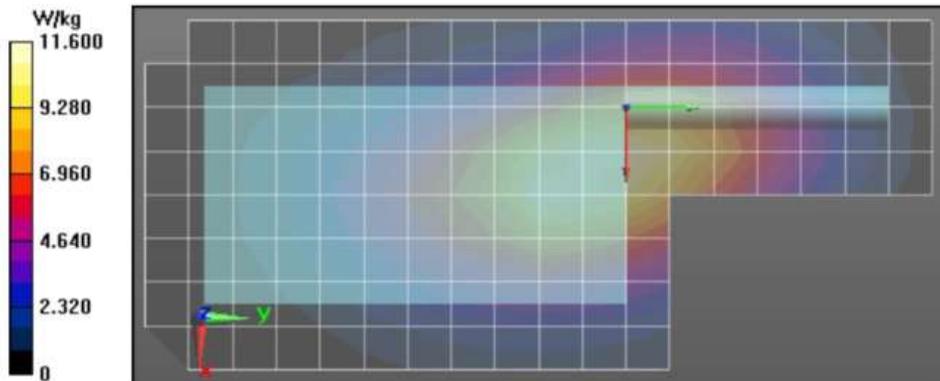
Reference Value = 94.53 V/m; Power Drift = -0.35 dB  
**Fast SAR: SAR(1 g) = 12.3 W/kg; SAR(10 g) = 8.9 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 12.0 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 94.53 V/m; Power Drift = -0.41 dB  
 Peak SAR (extrapolated) = 15.7 W/kg  
**SAR(1 g) = 11.9 W/kg; SAR(10 g) = 8.62 W/kg** (SAR corrected for target medium)  
 Smallest distance from peaks to all points 3 dB below = 27.9 mm  
 Ratio of SAR at M2 to SAR at M1 = 73.9%  
 Maximum value of SAR (measured) = 11.5 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) = 11.4 W/kg



Assessments at the FCC UHF R2 Body - Table 21

Motorola Solutions, Inc. EME Laboratory  
Date/Time: 11/27/2021 2:19:41 PM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-AB-211127-13  
Model#: H91TGD9PW5AN (PNUW1012D)  
Phantom#: EL14 1040  
Tissue Temp: 22.3 (C)  
Serial#: 579TXV0004  
Antenna: KT000026A01  
Test Freq: 496.5000 (MHz)  
Battery: PMNN4403B  
Carry Acc: NTN8266B  
Audio Acc: NNTN8203A  
Start Power: 5.70 (W)

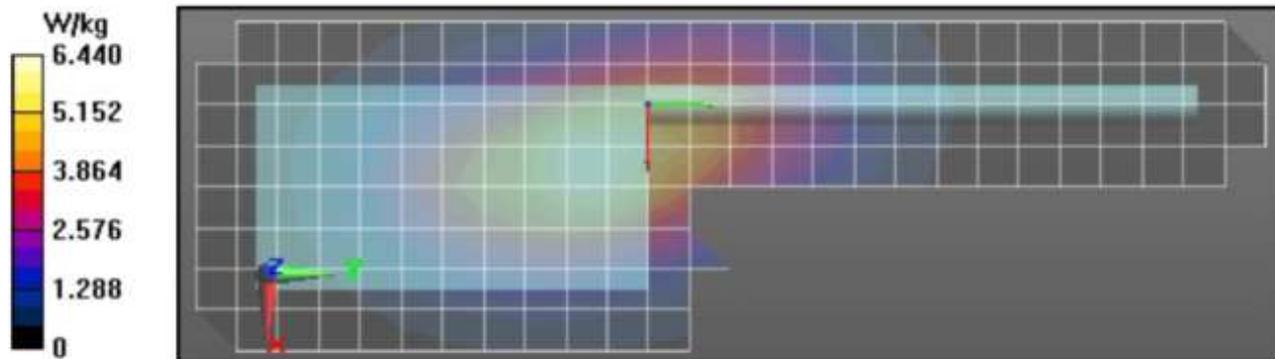
Comments:

Communication System Band: APX8000 UHF, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 497 \text{ MHz}$ ;  $\sigma = 0.95 \text{ S/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 496.5 MHz, ConvF(11.86, 11.86, 11.86) @ 496.5 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (81x291x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Reference Value = 73.18 V/m; Power Drift = -0.23 dB  
**Fast SAR: SAR(1 g) = 6.86 W/kg; SAR(10 g) = 4.88 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 6.90 W/kg

**Below 2 GHz-Rev.3/Ab 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 = 73.18 V/m; Power Drift = -0.24 dB  
Peak SAR (extrapolated) = 9.89 W/kg  
**SAR(1 g) = 7 W/kg; SAR(10 g) = 4.87 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 = 71.1%  
Maximum value of SAR (measured) = 7.05 W/kg

**Below 2 GHz-Rev.3/Ab 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) = 7.04 W/kg



Assessments at the FCC UHF R1 Face - Table 21

Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/4/2021 9:54:25 AM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-FACE-211204-02#  
Model#: H91TGD9PW7AN (PNUW1014E)  
Phantom#: ELI4 1108  
Tissue Temp: 20.0 (C)  
Serial#: 579TXV0026  
Antenna: FAF5259A  
Test Freq: 406.1250 (MHz)  
Battery: NNTN7038B  
Carry Acc: None; Radio at back  
Audio Acc: None  
Start Power: 5.70 (W)

Comments:

Communication System Band: APX8000 UHF, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 406$  MHz;  $\sigma = 0.84$  S/m;  $\epsilon_r = 43.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 406.125 MHz, ConvF(11.65, 11.65, 11.65) @ 406.125 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Face Scan/1-Area Scan (81x181x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

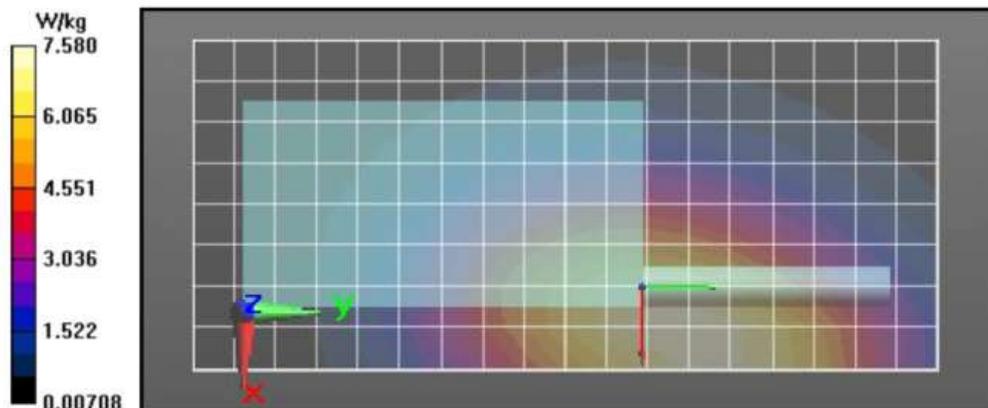
Reference Value = 89.70 V/m; Power Drift = -0.18 dB  
**Fast SAR: SAR(1 g) = 7.89 W/kg; SAR(10 g) = 5.8 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 7.61 W/kg

**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 = 89.70 V/m; Power Drift = -0.16 dB  
Peak SAR (extrapolated) = 9.39 W/kg  
**SAR(1 g) = 7.63 W/kg; SAR(10 g) = 5.82 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 = 77.7%  
Maximum value of SAR (measured) = 7.41 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) = 7.40 W/kg



Assessments at the FCC UHF R2 Face - Table 21

Motorola Solutions, Inc. EME Laboratory  
Date/Time: 12/4/2021 2:52:32 PM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-FACE-211204-05  
Model#: H91TGD9PW7AN (PNUW1014E)  
Phantom#: ELI4 1108  
Tissue Temp: 20.2 (C)  
Serial#: 579TXV0026  
Antenna: KT000026A01  
Test Freq: 481.0000 (MHz)  
Battery: NNTN7034B  
Carry Acc: None; Radio at front  
Audio Acc: None  
Start Power: 5.70 (W)

Comments:

Communication System Band: APX8000 UHF, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 481$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 481 MHz, ConvF(11.65, 11.65, 11.65) @ 481 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Face Scan/1-Area Scan (81x281x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

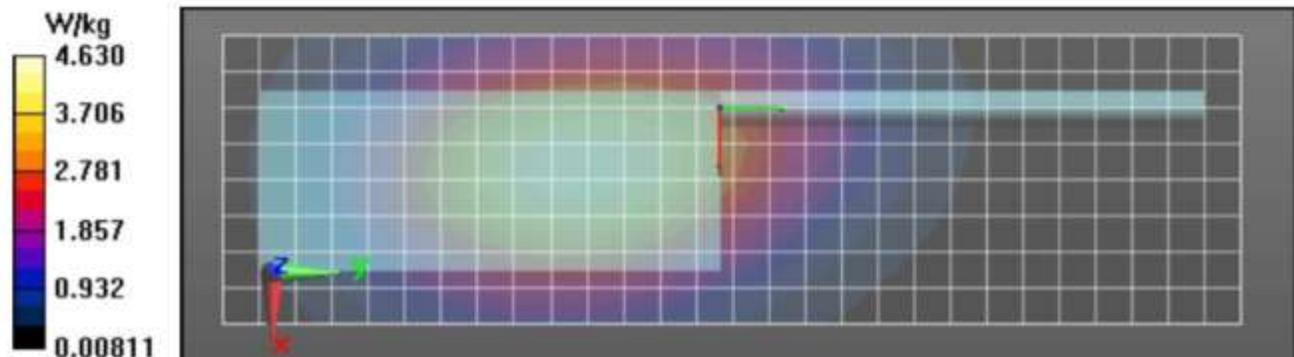
Reference Value = 62.64 V/m; Power Drift = -0.21 dB  
Fast SAR: SAR(1 g) = 4.72 W/kg; SAR(10 g) = 3.46 W/kg (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 4.67 W/kg

**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 = 62.64 V/m; Power Drift = -0.20 dB  
Peak SAR (extrapolated) = 5.95 W/kg  
SAR(1 g) = 4.69 W/kg; SAR(10 g) = 3.55 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 = 76.9%  
Maximum value of SAR (measured) = 4.68 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) = 4.66 W/kg



Assessments at the FCC 7/800 Body - Table 23

Motorola Solutions, Inc. EME Laboratory  
 Date/Time: 12/17/2021 3:16:26 PM

Robot#: DASY5-PG-2 | Run#: MFR-AB-211217-03  
 Model#: H91TGD9PW5AN (PNUW1012E)  
 Phantom#: ELI4 1090  
 Tissue Temp: 20.1 (C)  
 Serial#: 579TXV0004  
 Antenna: NAR6595A  
 Test Freq: 808.5000 (MHz)  
 Battery: PMNN4403B  
 Carry Acc: NTN8266B  
 Audio Acc: NMN6274B  
 Start Power: 3.60 (W)

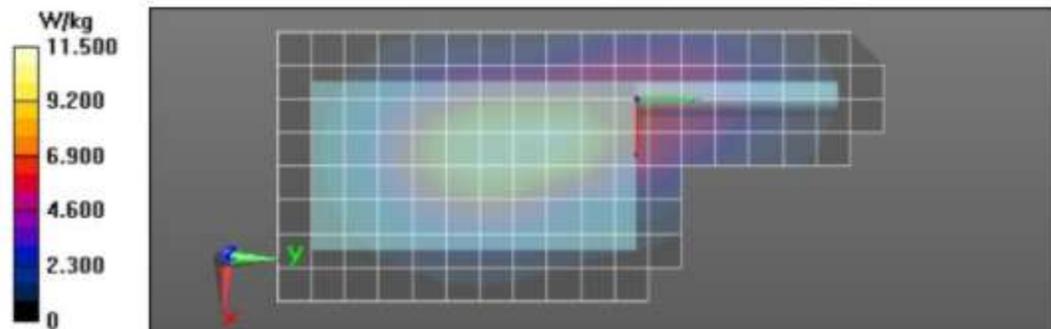
Comments:

Communication System Band: APX8000 7/900, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 809$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 808.5 MHz, ConvF(10.29, 10.29) @ 808.5 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 83.40 V/m; Power Drift = -0.30 dB  
**Fast SAR: SAR(1 g) = 12 W/kg; SAR(10 g) = 8.25 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 12.0 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x9x7)/Cube 0:** Measurement grid: dx=7.5mm,  
 dy=7.5mm, dz=5mm  
 Reference Value = 83.40 V/m; Power Drift = -0.33 dB  
 Peak SAR (extrapolated) = 21.0 W/kg  
**SAR(1 g) = 12.7 W/kg; SAR(10 g) = 8.46 W/kg** (SAR corrected for target medium)  
 Smallest distance from peaks to all points 3 dB below = 16.2 mm  
 Ratio of SAR at M2 to SAR at M1 = 66.9%  
 Maximum value of SAR (measured) = 12.5 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) = 12.2 W/kg



### Assessments at the FCC 7/800 Face - Table 23

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/5/2021 2:42:49 PM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-FACE-211205-16  
 Model#: H91TGD9PW7AN (PNUW1014E)  
 Phantom#: ELI4 1028  
 Tissue Temp: 20.6 (C)  
 Serial#: 579TXV0026  
 Antenna: NAR6595A  
 Test Freq: 808.5000(MHz)  
 Battery: NNTN7038B  
 Carry Acc: None; Radio at back  
 Audio Acc: None  
 Start Power: 3.60 (W)

Comments:

Communication System Band: APX8000 7/900, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used:  $f = 809$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 808.5 MHz, ConvF(10.25, 10.25, 10.25) @ 808.5 MHz

Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (71x291x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 61.84 V/m; Power Drift = -0.11 dB

**Fast SAR: SAR(1 g) = 6.84 W/kg; SAR(10 g) = 4.83 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 6.84 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 = 61.84 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 8.70 W/kg

**SAR(1 g) = 6.68 W/kg; SAR(10 g) = 4.97 W/kg** (SAR corrected for target medium)

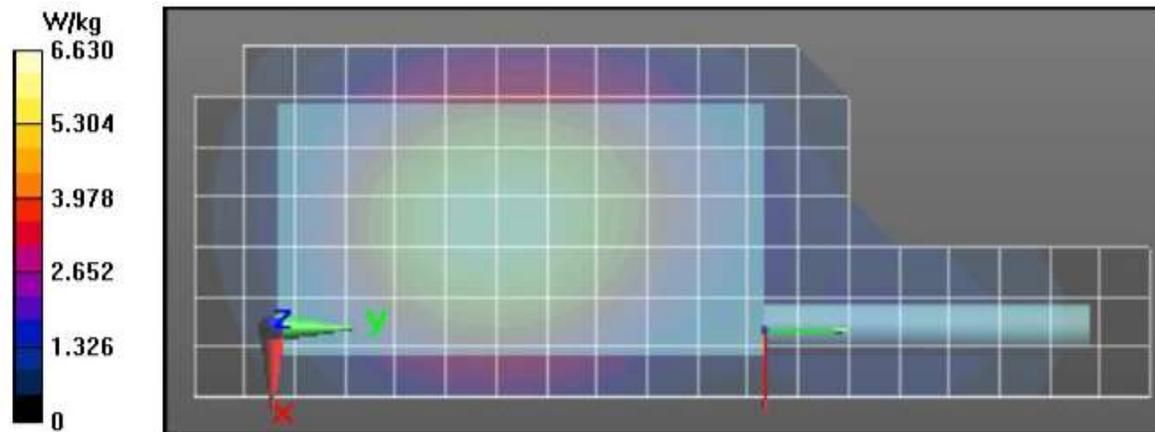
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 75.9%

Maximum value of SAR (measured) = 6.76 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) = 6.75 W/kg



**Assessments at the ISED VHF Body – table 24**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 11/30/2021 2:47:43 PM

Robot#: DASY5-PG-2 | Run#: AR(SAN)-AB-211130-15  
 Model#: H91TGD9PW5AN (PNUW1012E)  
 Phantom#: ELI4 1103  
 Tissue Temp: 21.5 (C)  
 Serial#: 579TXV0004  
 Antenna: PMAT4001A  
 Test Freq: 139.7000 (MHz)  
 Battery: NNTN7573A  
 Carry Acc: HLN6875A  
 Audio Acc: None  
 Start Power: 6.60 (W)

Comments:

Communication System Band: APX8000 VHF, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 140$  MHz;  $\sigma = 0.76$  S/m;  $\epsilon_r = 59.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 139.7 MHz, ConvF(13.51, 13.51, 13.51) @ 139.7 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (81x291x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 54.86 V/m; Power Drift = -0.08 dB  
**Fast SAR: SAR(1 g) = 7.55 W/kg; SAR(10 g) = 5.01 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 8.11 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 = 54.86 V/m; Power Drift = -0.06 dB  
**Fast SAR: SAR(1 g) = 22.6 W/kg; SAR(10 g) = 12.2 W/kg** (SAR corrected for target medium)

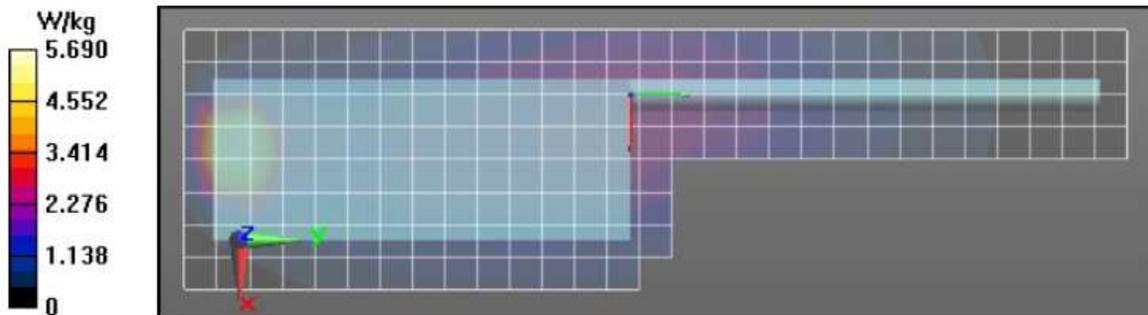
Maximum value of SAR (interpolated) = 33.0 W/kg

**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 = 220.4 V/m; Power Drift = 0.09 dB  
 Peak SAR (extrapolated) = 44.5 W/kg  
**SAR(1 g) = 12.3 W/kg; SAR(10 g) = 4.85 W/kg** (SAR corrected for target medium)  
 Smallest distance from peaks to all points 3 dB below = 8.7 mm  
 Ratio of SAR at M2 to SAR at M1 = 39.8%  
 Maximum value of SAR (measured) = 10.0 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) = 8.93 W/kg



Assessments at the ISED VHF Face – table 24

**Motorola Solutions, Inc. EME Laboratory**  
 Date/Time: 12/5/2021 6:55:17 AM

Robot#: DASY5-PG-2 | Run#: MFR-FACE-211205-08  
 Model#: H91TGD9PW7AN (PNUW1014E)  
 Phantom#: ELI4 1028  
 Tissue Temp: 20.4 (C)  
 Serial#: 579TXV0026  
 Antenna: PMAT4001A  
 Test Freq: 143.4000 (MHz)  
 Battery: NNTN8092A  
 Carry Acc: None; Radio at back  
 Audio Acc: None  
 Start Power: 6.60 (W)

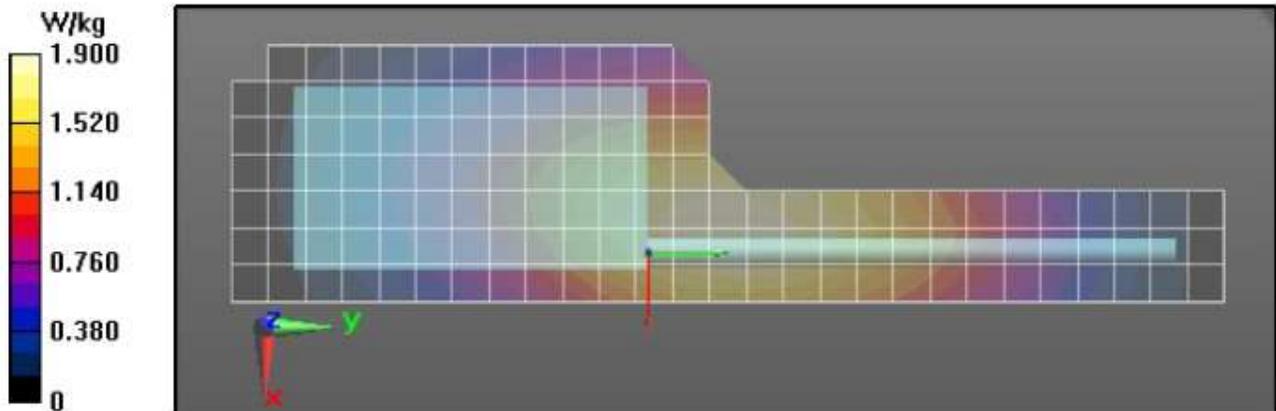
Comments:

Communication System Band: APX8000 VHF, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 143 \text{ MHz}$ ;  $\sigma = 0.72 \text{ S/m}$ ;  $\epsilon_r = 51.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 143.4 MHz, ConvF(13.84, 13.84, 13.84) @ 143.4 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (71x291x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Reference Value = 49.60 V/m; Power Drift = 0.01 dB  
**Fast SAR: SAR(1 g) = 1.98 W/kg; SAR(10 g) = 1.54 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.91 W/kg

**Below 2 GHz-Rev.3/Ab 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 = 49.60 V/m; Power Drift = 0.01 dB  
 Peak SAR (extrapolated) = 2.34 W/kg  
**SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.57 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 = 80.9%  
 Maximum value of SAR (measured) = 1.90 W/kg

**Below 2 GHz-Rev.3/Ab 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) = 1.90 W/kg



Assessments at the ISED UHF Body – table 24

Motorola Solutions, Inc. EME Laboratory

Date/Time: 11/25/2021 9:21:31 AM

Robot#: DASY5-PG-2 | Run#: AF-AB-211125-07#  
Model#: H91TGD9PW5AN (PNUW1012E)  
Phantom#: ELI4 1040  
Tissue Temp: 22.8 (C)  
Serial#: 579TXV0004  
Antenna: FAF5259A  
Test Freq: 406.1250 (MHz)  
Battery: NNTN7038B  
Carry Acc: NTN8266B  
Audio Acc: NNTN8575A  
Start Power: 5.69 (W)

Comments:

Communication System Band: APX8000 UHF, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 406$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 55.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 406.125 MHz, ConvF(11.86, 11.86, 11.86) @ 406.125 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (81x211x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

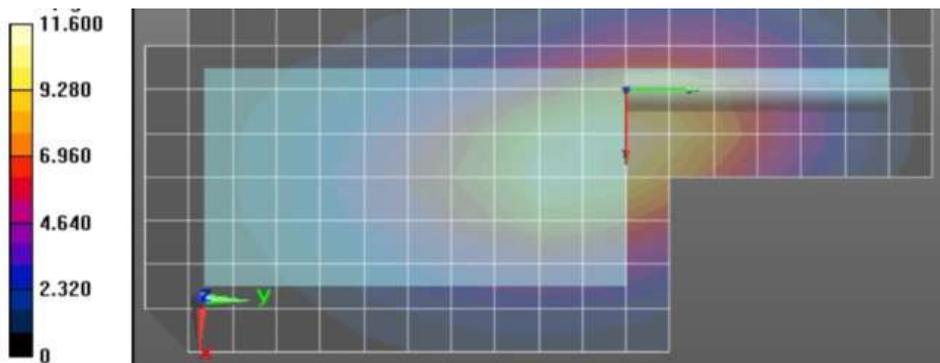
Reference Value = 94.53 V/m; Power Drift = -0.35 dB  
Fast SAR: SAR(1 g) = 12.3 W/kg; SAR(10 g) = 8.9 W/kg (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 12.0 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 94.53 V/m; Power Drift = -0.41 dB  
Peak SAR (extrapolated) = 15.7 W/kg  
SAR(1 g) = 11.9 W/kg; SAR(10 g) = 8.62 W/kg (SAR corrected for target medium)  
Smallest distance from peaks to all points 3 dB below = 27.9 mm  
Ratio of SAR at M2 to SAR at M1 = 73.9%  
Maximum value of SAR (measured) = 11.5 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) = 11.4 W/kg



Assessments at the ISED UHF Face – table 24

Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/4/2021 9:54:25 AM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-FACE-211204-02#  
Model#: H91TGD9PW7AN (PNUW1014E)  
Phantom#: ELI4 1108  
Tissue Temp: 20.0 (C)  
Serial#: 579TXV0026  
Antenna: FAF5259A  
Test Freq: 406.1250 (MHz)  
Battery: NNTN7038B  
Carry Acc: None; Radio at back  
Audio Acc: None  
Start Power: 5.70 (W)

Comments:

Communication System Band: APX8000 UHF, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 406$  MHz;  $\sigma = 0.84$  S/m;  $\epsilon_r = 43.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 406.125 MHz, ConvF(11.65, 11.65, 11.65) @ 406.125 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Face Scan/1-Area Scan (81x181x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

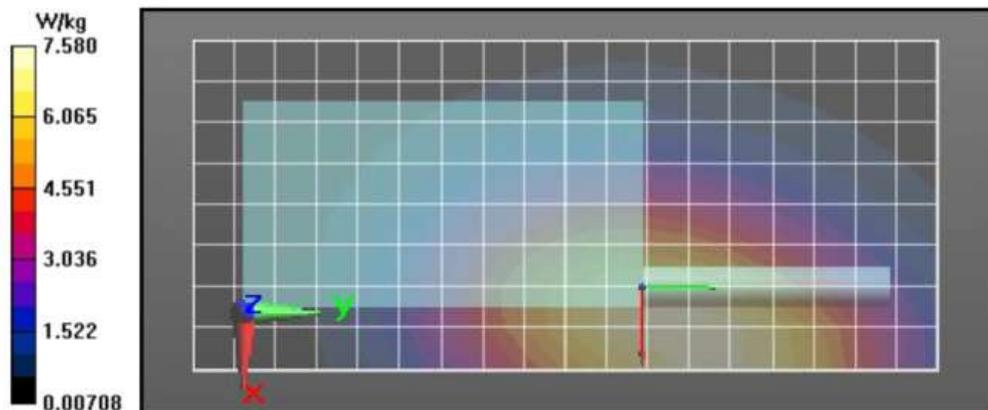
Reference Value = 89.70 V/m; Power Drift = -0.18 dB  
Fast SAR: SAR(1 g) = 7.89 W/kg; SAR(10 g) = 5.8 W/kg (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 7.61 W/kg

**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 = 89.70 V/m; Power Drift = -0.16 dB  
Peak SAR (extrapolated) = 9.39 W/kg  
SAR(1 g) = 7.63 W/kg; SAR(10 g) = 5.82 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 = 77.7%  
Maximum value of SAR (measured) = 7.41 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) = 7.40 W/kg



Assessments at the ISED 7/800MHz Body – table 24

Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/17/2021 3:16:26 PM

Robot#: DASY5-PG-2 | Run#: MFR-AB-211217-03  
 Model#: H91TGD9PW5AN (PNUW1012E)  
 Phantom#: ELI4 1090  
 Tissue Temp: 20.1 (C)  
 Serial#: 579TXV0004  
 Antenna: NAR6595A  
 Test Freq: 808.5000 (MHz)  
 Battery: PMNN4403B  
 Carry Acc: NTN8266B  
 Audio Acc: NMN6274B  
 Start Power: 3.60 (W)

Comments:

Communication System Band: APX8000 7/900, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 809$  MHz;  $\sigma = 0.97$  S/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 808.5 MHz, ConvF(10.29, 10.29) @ 808.5 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

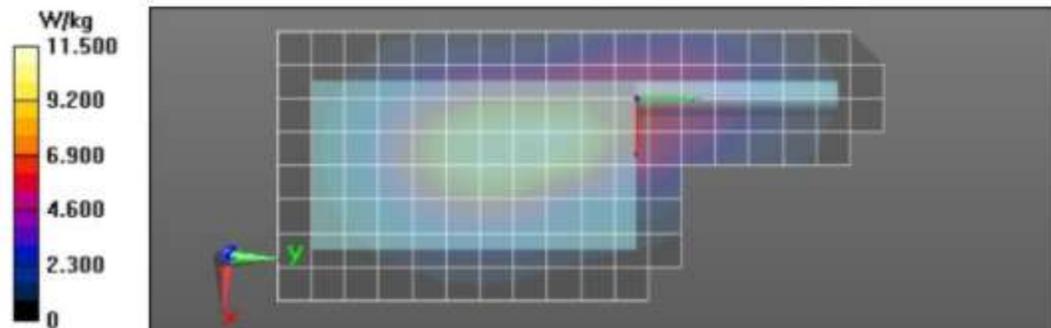
Reference Value = 83.40 V/m; Power Drift = -0.30 dB  
**Fast SAR: SAR(1 g) = 12 W/kg; SAR(10 g) = 8.25 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 12.0 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x9x7)/Cube 0:** Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm  
 Reference Value = 83.40 V/m; Power Drift = -0.33 dB  
 Peak SAR (extrapolated) = 21.0 W/kg  
**SAR(1 g) = 12.7 W/kg; SAR(10 g) = 8.46 W/kg** (SAR corrected for target medium)  
 Smallest distance from peaks to all points 3 dB below = 16.2 mm  
 Ratio of SAR at M2 to SAR at M1 = 66.9%  
 Maximum value of SAR (measured) = 12.5 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) = 12.2 W/kg



Assessments at the ISED 7/800MHz Face – table 24

Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/5/2021 2:42:49 PM

Robot#: DASY5-PG-2 | Run#: AF(SAN)-FACE-211205-16  
Model#: H91TGD9PW7AN (PNUW1014E)  
Phantom#: ELI4 1028  
Tissue Temp: 20.6 (C)  
Serial#: 579TXV0026  
Antenna: NAR6595A  
Test Freq: 808.5000(MHz)  
Battery: NNTN7038B  
Carry Acc: None; Radio at back  
Audio Acc: None  
Start Power: 3.60 (W)

Comments:

Communication System Band: APX8000 7/900, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 809 \text{ MHz}$ ;  $\sigma = 0.91 \text{ S/m}$ ;  $\epsilon_r = 40.3$ ;  $\rho = 1000 \text{ kg/m}^3$   
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 808.5 MHz, ConvF(10.25, 10.25, 10.25) @ 808.5 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (71x291x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

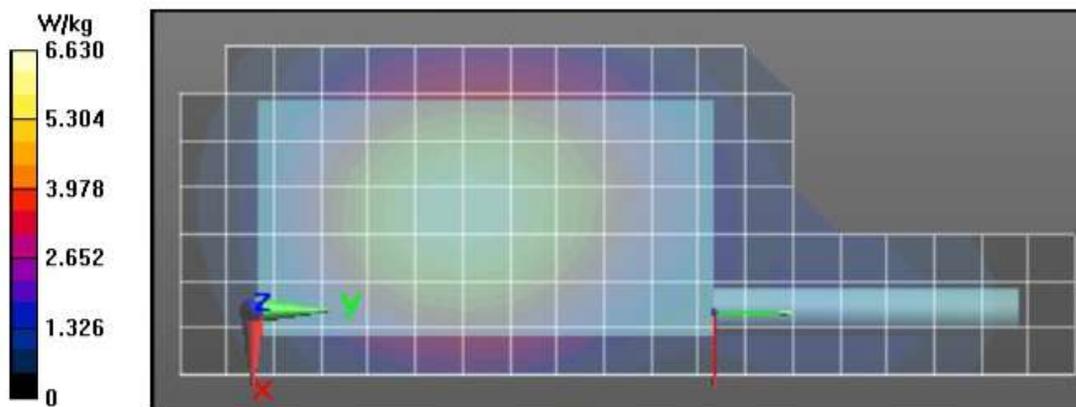
Reference Value = 61.84 V/m; Power Drift = -0.11 dB  
**Fast SAR: SAR(1 g) = 6.84 W/kg; SAR(10 g) = 4.83 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 6.84 W/kg

**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 = 61.84 V/m; Power Drift = -0.12 dB  
Peak SAR (extrapolated) = 8.70 W/kg  
**SAR(1 g) = 6.68 W/kg; SAR(10 g) = 4.97 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 = 75.9%  
Maximum value of SAR (measured) = 6.76 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) = 6.75 W/kg



Assessments at the ISED Each Antenna – table 24

Motorola Solutions, Inc. EME Laboratory  
 Date/Time: 11/26/2021 9:55:31 AM

Robot#: DASY5-PG-2 | Run#: AF-AB-211126-12#  
 Model#: H91TGD9PW5AN (PNUW1012E)  
 Phantom#: ELI4 1040  
 Tissue Temp: 22.7 (C)  
 Serial#: 579TXV0004  
 Antenna: PMAT4001A  
 Test Freq: 422.1000 (MHz)  
 Battery: PMNN4403B  
 Carry Acc: NTN8266B  
 Audio Acc: NNTN8203A  
 Start Power: 5.70 (W)

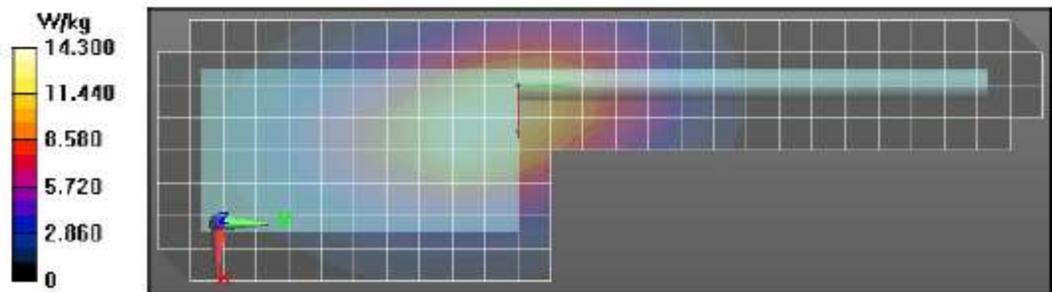
Comments:

Communication System Band: APX8000 UHF, Communication System UID: 0, Duty Cycle: 1:1,  
 Medium parameters used:  $f = 422 \text{ MHz}$ ,  $\sigma = 0.94 \text{ S/m}$ ,  $\epsilon_r = 55.7$ ,  $\rho = 1000 \text{ kg/m}^3$   
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 422.1 MHz, ConvF(11.86, 11.86, 11.86) @ 422.1 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (81x291x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 104.1 V/m; Power Drift = -0.12 dB  
 Fast SAR: SAR(1 g) = 15 W/kg; SAR(10 g) = 10.8 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 15.0 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=7.5mm,  
 dy=7.5mm, dz=5mm  
 Reference Value = 104.1 V/m; Power Drift = -0.12 dB  
 Peak SAR (extrapolated) = 20.2 W/kg  
 SAR(1 g) = 14.9 W/kg; SAR(10 g) = 10.9 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 = 74.4%  
 Maximum value of SAR (measured) = 15.0 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) = 14.9 W/kg



**Assessments at the FCC/ISED 2.4 GHz WLAN Body – Table 26**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 12/15/2021 3:28:40 PM

Robot#: DASY5-PG-2 | Run#: MHI-AB-211215-05  
 Model#: H91TGD9PW5AN(PNUW1012E)  
 Phantom#: ELI4 1022  
 Tissue Temp: 21.0 (C)  
 Serial#: 579TXV0013  
 Antenna: FAF5259A  
 Test Freq: 2437.0000 (MHz)  
 Battery: NNTN7038B  
 Carry Acc: HLN6875A  
 Audio Acc: None  
 Start Power: 0.0501 (W)

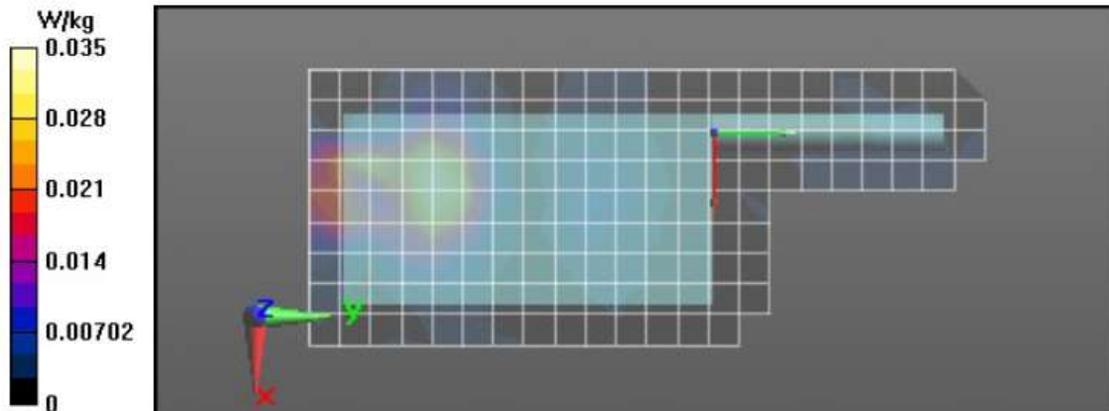
Comments:

Communication System Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz), Communication System UID: 10415 - AAA, Duty Cycle: 1:1.4243,  
 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 2.02$  S/m;  $\epsilon_r = 48.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 2437 MHz, ConvF(7.76, 7.76, 7.76) @ 2437 MHz  
 Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**2-3 GHz-Rev.3/Full Ab Scan/1-Area Scan (101x231x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
 Reference Value = 2.608 V/m; Power Drift = -0.02 dB  
**Fast SAR: SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.013 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 0.0354 W/kg

**2-3 GHz-Rev.3/Full Ab Scan/3-Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 2.608 V/m; Power Drift = 0.14 dB  
 Peak SAR (extrapolated) = 0.0420 W/kg  
**SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.012 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 = 51.2%  
 Maximum value of SAR (measured) = 0.0346 W/kg

**2-3 GHz-Rev.3/Full Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm  
 Maximum value of SAR (measured) = 0.0346 W/kg



Assessments at the FCC/ISED 2.4 GHz WLAN Face – Table 26

Motorola Solutions, Inc. EME Laboratory

Date/Time: 12/15/2021 9:12:10 AM

Robot#: DASY5-PG-1 | Run#: MHI-FACE-211215-01#  
Model#: H91TGD9PW5AN(PNUW1012E)  
Phantom#: ELI4 1028  
Tissue Temp: 21.3 (C)  
Serial#: 579TXV0005  
Antenna: FAF5259A  
Test Freq: 2412.0000(MHz)  
Battery: PMNN4403B  
Carry Acc: None, front of DUT @2.5cm  
Audio Acc: None  
Start Power: 0.0505(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:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.83 \text{ S/m}$ ;  $\epsilon_r = 36.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 2412 MHz, ConvF(7.63, 7.63, 7.63) @ 2412 MHz

Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**2-3 GHz-Rev.3/Face Scan/1-Area Scan (101x281x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 8.585 V/m; Power Drift = -0.07 dB

**Fast SAR: SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.094 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.244 W/kg

**2-3 GHz-Rev.3/Face Scan/3-Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.585 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.290 W/kg

**SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.091 W/kg** (SAR corrected for target medium)

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

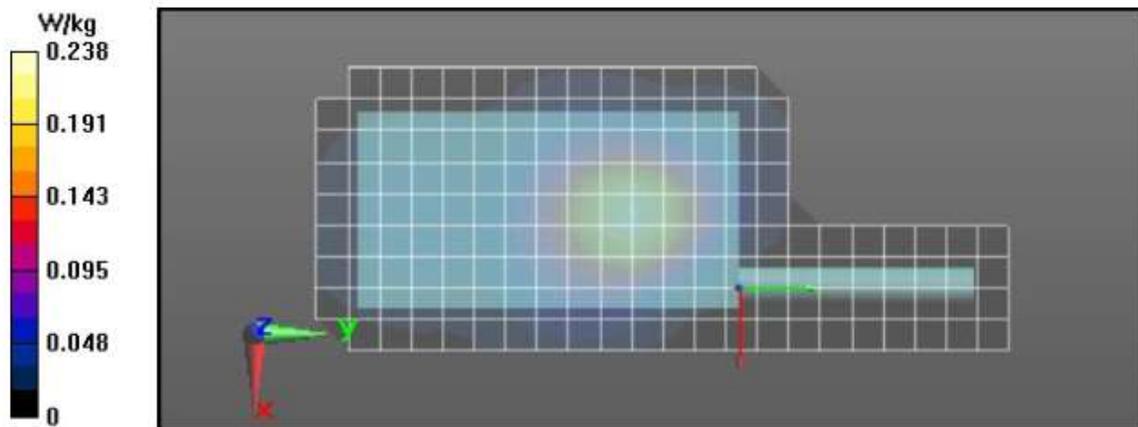
Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.241 W/kg

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

dz=10mm

Maximum value of SAR (measured) = 0.242 W/kg



**APPENDIX F**  
**Shortened Scan of Highest SAR configuration**

### Shortened Scan - Table 27

#### Motorola Solutions, Inc. EME Laboratory

Date/Time: 11/27/2021 1:01:42 AM

Robot#: DASY5-PG-2 | Run#: MFR-AB-211127-02#  
Model#: H91TGD9PW5AN (PNUW1012E)  
Phantom#: ELI4 1040  
Tissue Temp: 21.0(C)  
Serial#: 579TXV0004  
Antenna: PMAT4001A  
Test Freq: 422.1000 (MHz)  
Battery: PMNN4403B  
Carry Acc: NTN8266B  
Audio Acc: NNTN8203A  
Start Power: 5.70 (W)

Comments:

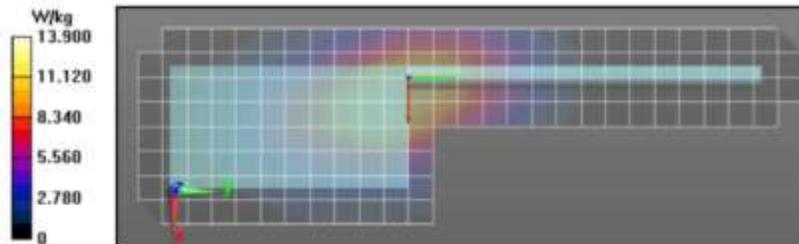
Communication System Band: APX8000 UHF, Communication System UID: 0, Duty Cycle: 1:1,  
Medium parameters used:  $f = 422 \text{ MHz}$ ;  $\sigma = 0.91 \text{ S/m}$ ;  $\epsilon_r = 55.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
Probe: EX3DV4 - SN7534, Calibrated: 4/19/2021, Frequency: 422.1 MHz, ConvF(11.86, 11.86, 11.86) @ 422.1 MHz  
Electronics: DAE4 Sn1598, Calibrated: 4/7/2021

**Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (81x291x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Reference Value = 105.7 V/m; Power Drift = -0.22 dB  
**Fast SAR: SAR(1 g) = 14.4 W/kg; SAR(10 g) = 10.4 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 14.1 W/kg

**Below 2 GHz-Rev.3/Ab Scan/2-Volume 2D Scan (41x41x1):** Interpolated grid:  $dx=0.7500 \text{ mm}$ ,  
 $dy=0.7500 \text{ mm}$ ,  $dz=1.000 \text{ mm}$   
Reference Value = 105.7 V/m; Power Drift = -0.24 dB  
**Fast SAR: SAR(1 g) = 14.4 W/kg; SAR(10 g) = 10.4 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (interpolated) = 14.2 W/kg

**Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 129.1 V/m; Power Drift = -0.17 dB  
Peak SAR (extrapolated) = 20.3 W/kg  
**SAR(1 g) = 15 W/kg; SAR(10 g) = 10.9 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 = 73.4%  
Maximum value of SAR (measured) = 14.9 W/kg

**Below 2 GHz-Rev.3/Ab 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) = 14.1 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)	27	9	7.80
Full scan (area & zoom)	24	30	7.66

**APPENDIX G**  
**DUT Test Position Photos**

**1.0 Highest SAR Test Position**

**1.1 Body**

DUT with antenna PMAT4001A with offered battery PMNN4403B and belt clip NTN8266B against the phantom with an audio accessory NNTN8203A attached. Same position used for other applicable offered antennas, batteries, and audio accessory.

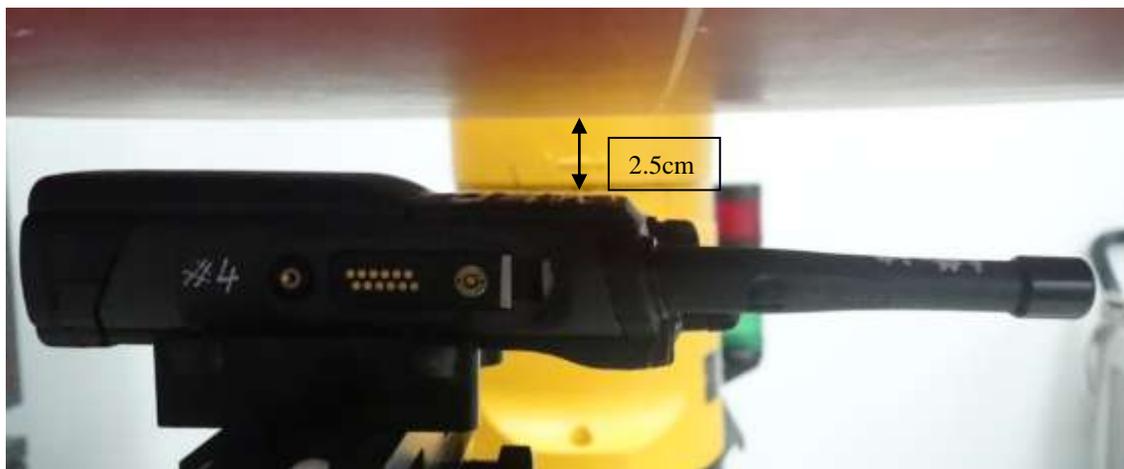


**1.2 Head**

Not applicable.

**1.3 Face**

Back of DUT with antenna FAF5259A and battery NNTN7038B separated 2.5cm from the phantom Without an audio accessory attached. Same position used for other applicable offered antennas and Batteries



**APPENDIX H**  
**DUT, Body worn and audio accessories Photos**

Please refer to original filing report