



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: 11/06/2023 Report Revision: B
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Responsible Engineer: Report Author: Date/s Tested: Manufacturer: Manufacturer Location: DUT Description: Test TX mode(s): Max. Power output: Nominal Power: Tx Frequency Bands: Signaling type: Model(s) Tested: Model(s) Certified: Serial Number(s): Classification: Firmware Version: Applicant Name: Applicant Address: FCC ID: FCC Test Firm Registration Number: IC: ISED Test Site registration:	Yeng Yee Yeong (EME Engineer) Yeng Yee Yeong (EME Engineer) 08/14/2023-08/24/2023 & 09/26/2023 Motorola Solutions Inc. PLOT 2A, MEDAN BAYAN LEPAS, MUKIM 12, S.W.D 11900 BAYAN LEPAS, PENANG, MALAYSIA Handheld Portable – APX N50 UHF MODEL 2 PORTABLE FM, BT & WLAN Refer Table 3 (part 1 of 2) Refer Table 3 (part 1 of 2) Refer Table 3 (part 1 of 2) FM (LMR), 802.11b/g/n/a/ac (WLAN), FHSS (Bluetooth / Bluetooth LE) H25XDF9PW6AN (PMUE2891A) Refer Section 1.0 Introduction (part 1 of 2) 287TZP0477, 287TZP0493 & 287TZP0464 Occupational/Controlled Environment L06221125 Motorola Solutions Inc. 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322 AZ489FT7175 This report contains results that are immaterial for FCC equipment approval, which are clearly identified. 823256 109U-89FT7175 This report contains results that are immaterial for ISED equipment approval, which are clearly identified. 24843
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The test results clearly demonstrate compliance with Occupational/Controlled Environment 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.

Saw Sun Hock (Approval Signatory)
Approved Date: 11/08/2023

Appendix D

System Verification Check Scans

8/17/23, 5:42 PM

_0_CW_450-00MHz.html

Motorola Solutions, EME Laboratory

2023-08-17, 17:32

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]
D450V3 - SN1053	450.0	HSL	23.9794	7.0	7.1

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	15		CW, 0--	450.0, 0	11.47	0.857	42.5

Hardware Setup

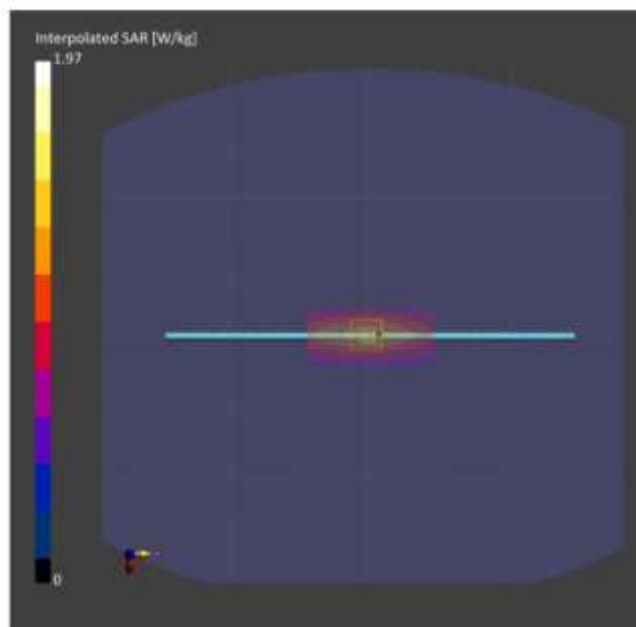
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL450, 2023-Aug-17	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-17, 17:32	2023-08-17, 17:39
psSAR1g [W/Kg]	1.24	1.22
psSAR10g [W/Kg]	0.867	0.816
Power Drift [dB]	0.01	0.02
TSL Correction	Positive / Negative	Positive / Negative



Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/16/2023 8:51:56 AM

Robot#: DASY5-PG-3 | Run#: MFR(MHN)-SYSP-2450H-230816-04
 Dipole Model# D2450V2
 Phantom#: ELI4 1109
 Tissue Temp: 21.4 (C)
 Serial#: 781
 Test Freq: 2450.0000 (MHz)
 Start Power: 250 (mW)
 Rotation (1D): 0.051 dB
 Adjusted SAR (1W): 54.80 mW/g (1g)

Comments:

Communication System Band: Dipole 2450, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 2450 MHz, ConvF(7.71, 7.71, 7.71) @ 2450 MHz
 Electronics: DAE4 Sn684, Calibrated: 2/22/2022

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

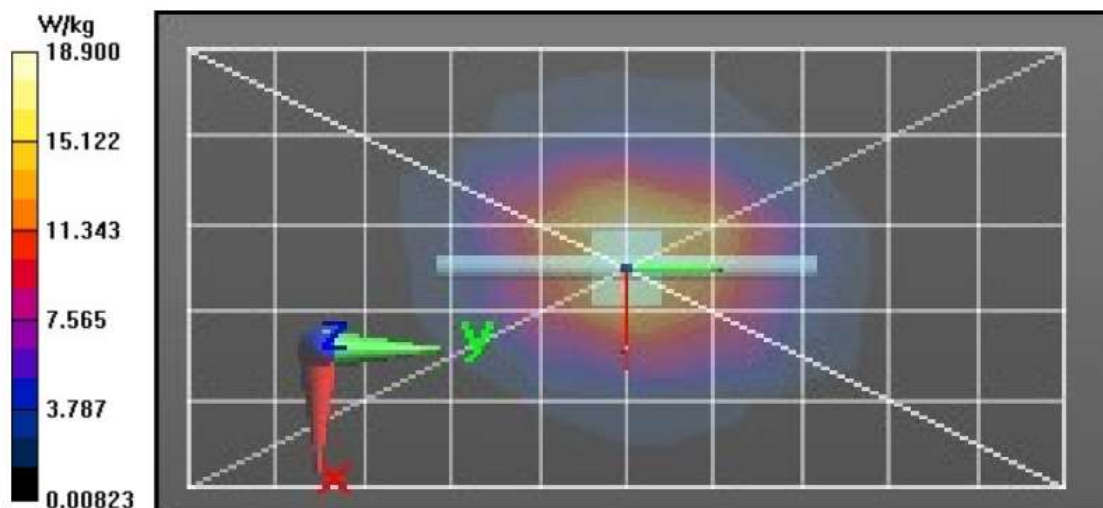
grid: dx=1.200 mm, dy=1.200 mm
 Reference Value = 117.5 V/m; Power Drift = -0.06 dB
Fast SAR: SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.65 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 23.7 W/kg

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

grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 117.5 V/m; Power Drift = -0.06 dB
 Peak SAR (extrapolated) = 28.9 W/kg
SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.38 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 = 47.7%
 Maximum value of SAR (measured) = 23.1 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) = 23.2 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 8/20/2023 5:25:28 PM

Robot#: DASY5-PG-3 | Run#: ZIQ-SYSP-5600H-230820-09
 Dipole Model# D5GHzV2
 Phantom#: ELI4 1109
 Tissue Temp: 20.9 (C)
 Serial#: 1026
 Test Freq: 5600.0000 (MHz)
 Start Power: 100 (mW)
 Rotation (1D): 0.095 dB
 Adjusted SAR (1W): 75.80 mW/g (1g)

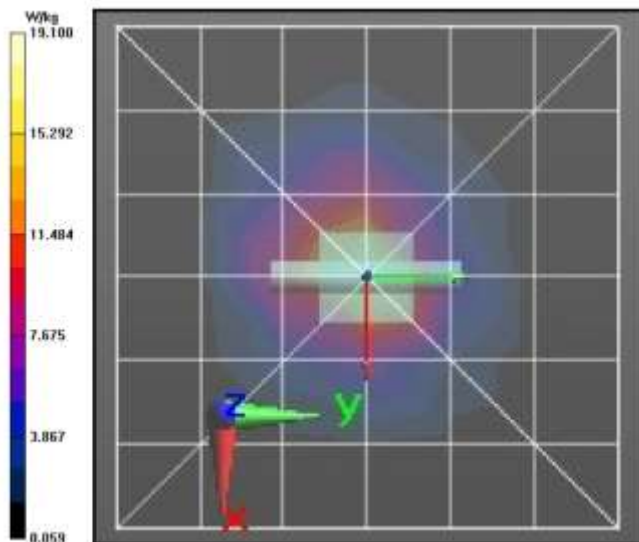
Comments:

Communication System Band: Dipole 5000, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.87$ S/m; $\epsilon_r = 34.1$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 5600 MHz, ConvF(4.83, 4.83, 4.83) @ 5600 MHz
 Electronics: DAE4 Sn684, Calibrated: 2/22/2022

4-6 GHz-Rev.5/System Performance Check/Dipole Area Scan 2 (61x61x1): Interpolated grid:
 dx=0.9000 mm, dy=0.9000 mm
 Reference Value = 71.79 V/m; Power Drift = -0.14 dB
Fast SAR: SAR(1 g) = 7.25 W/kg; SAR(10 g) = 1.98 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 19.8 W/kg

4-6 GHz-Rev.5/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement
 grid: dx=4mm, dy=4mm, dz=2mm
 Reference Value = 71.79 V/m; Power Drift = -0.14 dB
 Peak SAR (extrapolated) = 34.5 W/kg
SAR(1 g) = 7.58 W/kg; SAR(10 g) = 2.13 W/kg (SAR corrected for target medium)
 Smallest distance from peaks to all points 3 dB below = 7.2 mm
 Ratio of SAR at M2 to SAR at M1 = 51.3%
 Maximum value of SAR (measured) = 18.6 W/kg

4-6 GHz-Rev.5/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 20.0 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/23/2023 1:40:28 AM

Robot#: DASY5-PG-3 | Run#: MHN-SYSP-5750H-230823-01@
 Dipole Model# D5GHzV2
 Phantom#: ELI4 1109
 Tissue Temp: 20.5 (C)
 Serial#: 1027
 Test Freq: 5750.0000 (MHz)
 Start Power: 100 (mW)
 Rotation (ID): 0.21 dB
 Adjusted SAR (1W): 78.30 mW/g (1g)

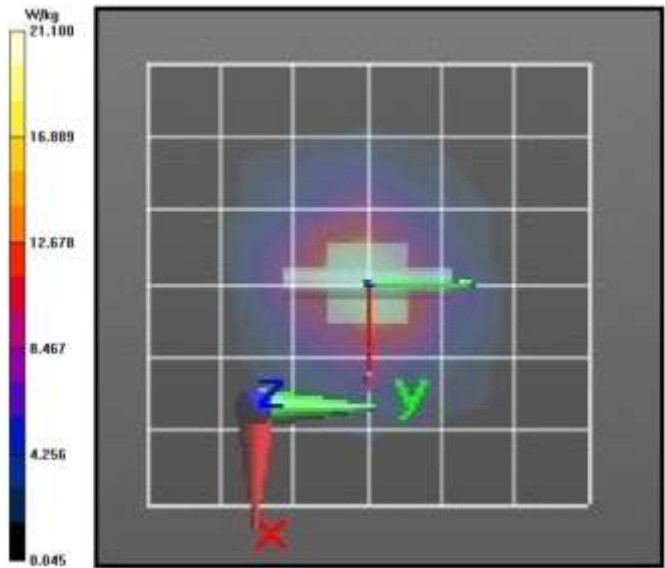
Comments:

Communication System Band: Dipole 5000, Communication System UID: 0, Duty Cycle: 1:1,
 Medium parameters used: $f = 5750$ MHz; $\sigma = 4.83$ S/m; $\epsilon_r = 32.8$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 5750 MHz, ConvF(5.05, 5.05, 5.05) @ 5750 MHz
 Electronics: DAE4 Sn684, Calibrated: 2/22/2022

4-6 GHz-Rev.5/System Performance Check/Dipole Area Scan 2 (61x61x1): Interpolated grid:
 dx=0.9000 mm, dy=0.9000 mm
 Reference Value = 73.57 V/m; Power Drift = -0.08 dB
Fast SAR: SAR(1 g) = 7.58 W/kg; SAR(10 g) = 2.06 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 21.2 W/kg

4-6 GHz-Rev.5/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
 Reference Value = 73.57 V/m; Power Drift = -0.08 dB
 Peak SAR (extrapolated) = 37.0 W/kg
SAR(1 g) = 7.83 W/kg; SAR(10 g) = 2.21 W/kg (SAR corrected for target medium)
 Smallest distance from peaks to all points 3 dB below = 7.2 mm
 Ratio of SAR at M2 to SAR at M1 = 50.1%
 Maximum value of SAR (measured) = 19.3 W/kg

4-6 GHz-Rev.5/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 21.1 W/kg



Appendix E

DUT Scans

Highest SAR Configuration of LMR assessments at the FCC Body

Table 23

8/16/23, 11:30 AM

BACK_0-00_AN000451A01_PMNN4813A_PMLN8370A_PMLN8295A_0_CW_512-00MHz.html

Motorola Solutions, EME Laboratory

2023-08-16, 11:04

Measurement Report for PMUE2891A, 287TZP0477, BACK, Custom Band, CW, Channel 512000 (512.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0--	512.0, 512000	11.47	0.917	41.1

Hardware Setup

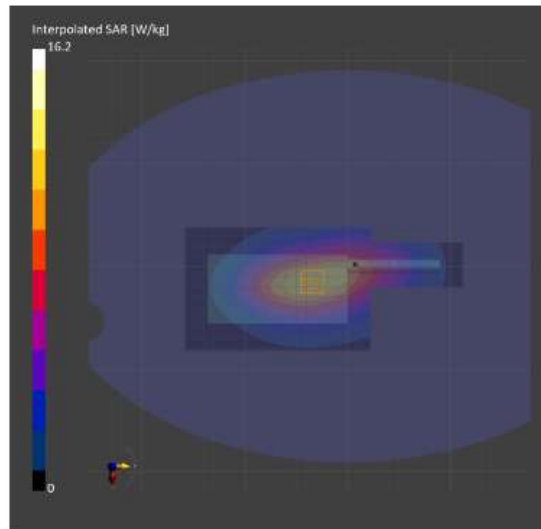
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL450, 2023-Aug-16	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-16, 11:04	2023-08-16, 11:14
psSAR1g [W/Kg]	10.9	11.0
psSAR10g [W/Kg]	7.84	7.89
Power Drift [dB]	-0.02	-0.06
TSL Correction	Positive only	Positive only
M2/M1 [%]		87.4
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the FCC Face Table 26

8/17/23, 3:26 AM

FRONT_25-00_AN000451A01_PMNN4815A_front_NA_0_CW_476-70MHz.html

Motorola Solutions, EME Laboratory

2023-08-17, 03:10

Measurement Report for PMUE2891A, 287TZP0477,FRONT, Custom Band, CW, Channel 476700 (476.7 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 25.00	Custom Band	CW, 0--	476.7, 476700	11.47	0.887	41.8

Hardware Setup

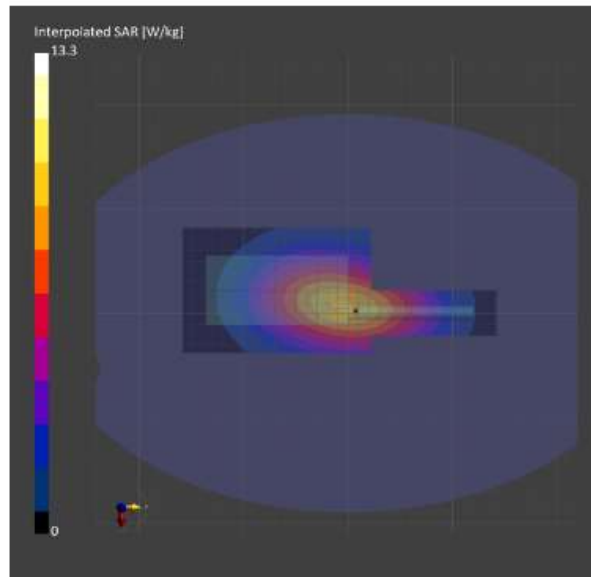
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL450 , 2023-Aug-17	EX3DV4 - SN7594, 2022-04-26	DAE4 5n729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 300.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-17, 03:10	2023-08-17, 03:19
psSAR1g [W/Kg]	9.07	9.20
psSAR10g [W/Kg]	6.62	6.80
Power Drift [dB]	0.01	-0.05
TSL Correction	Positive only	Positive only
M2/M1 [%]		87.7
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED, Canada Body (406.1-430MHz)

Table 27

8/17/23, 2:05 PM

BACK_0-00_AN000451A01_PMNN4813A_PMLN8370A_PMLN8295A_0_CW_406-20MHz.html

Motorola Solutions, EME Laboratory

2023-08-17, 13:54

Measurement Report for PMUE2891A, 287TZP0477, BACK, Custom Band, CW, Channel 406200 (406.2 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0--	406.2, 406200	11.47	0.838	44.3

Hardware Setup

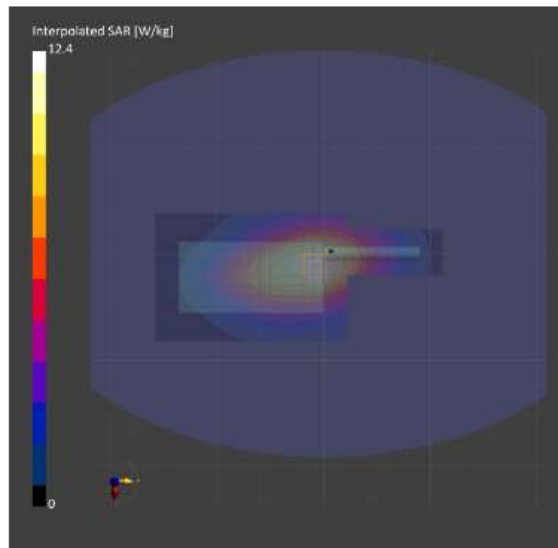
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1037	HSL450, 2023-Aug-17	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-17, 13:54	2023-08-17, 14:03
psSAR1g [W/Kg]	8.54	8.35
psSAR10g [W/Kg]	6.12	5.97
Power Drift [dB]	-0.12	-0.41
TSL Correction	Positive only	Positive only
M2/M1 [%]		86.0
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED, Canada Face (406.1-430MHz)

Table 27

8/17/23, 7:36 AM

FRONT_25-00_AN000452A01_PMNN4815A_front_NA_0_CW_406-20MHz.html

Motorola Solutions, EME Laboratory

2023-08-17, 07:12

Measurement Report for PMUE2891A, 287TZP0477,FRONT, Custom Band, CW, Channel 406200 (406.2 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 25.00	Custom Band	CW, 0--	406.2, 406200	11.47	0.838	44.3

Hardware Setup

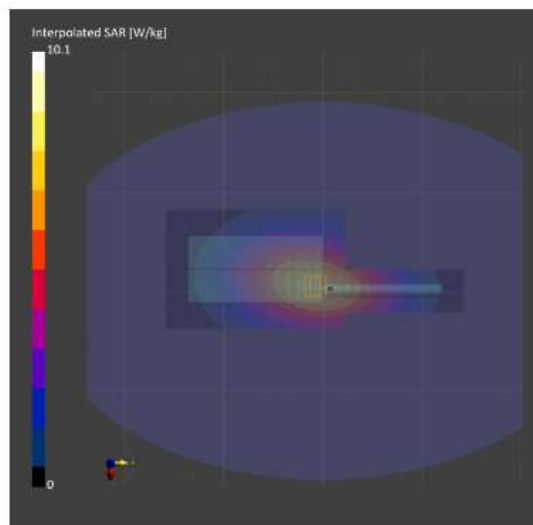
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1037	HSL450 , 2023-Aug-17	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 300.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-17, 07:12	2023-08-17, 07:28
psSAR1g [W/Kg]	7.47	7.38
psSAR10g [W/Kg]	5.47	5.58
Power Drift [dB]	-0.06	-0.34
TSL Correction	Positive only	Positive only
M2/M1 [%]		87.9
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED, Canada Body (450-470MHz)

Table 28

8/18/23, 12:04 AM

BACK_0-00_AN000451A01_PMNN4813A_PMLN8370A_PMLN8295A_0_CW_470-00MHz.html

Motorola Solutions, EME Laboratory

2023-08-17, 21:38

Measurement Report for PMUE2891A, 287TZP0477, BACK, D450, CW, Channel 70 (470.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	D450	CW, 0--	470.0, 70	11.47	0.875	42.1

Hardware Setup

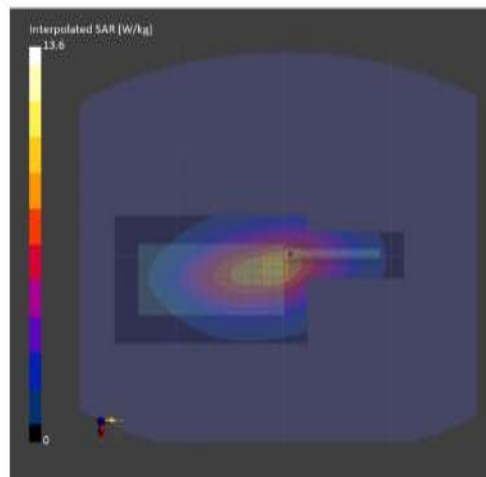
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) – ELI4 1016	HSL450 , 2023-Aug-17	EX3DV4 – SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-17, 21:38	2023-08-17, 21:49
psSAR1g [W/Kg]	8.69	8.80
psSAR10g [W/Kg]	6.22	6.22
Power Drift [dB]	-0.03	-0.06
TSL Correction	Positive only	Positive only
M2/M1 [%]		86.5
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED, Canada Body (450-470MHz)

Table 18

8/14/23, 5:05 PM

BACK_0-00_AN000452A01_PMNN4813A_PMLN8369A_PMMN4128A_0_CW_470-00MHz.html

Motorola Solutions, EME Laboratory

2023-08-14, 16:44

Measurement Report for PMUE2891A, 287TZP0477, BACK, D450, CW, Channel 70 (470.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	D450	CW, 0--	470.0, 70	11.47	0.882	42.4

Hardware Setup

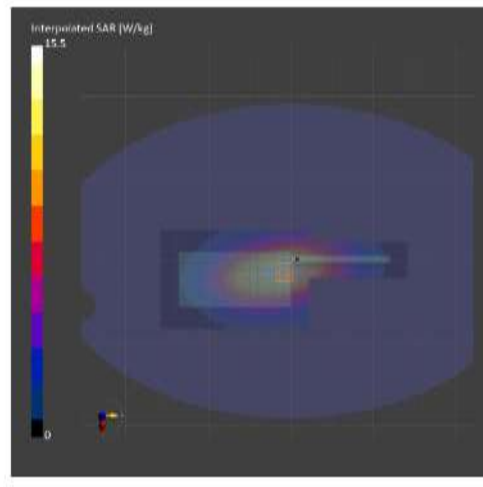
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1037	HSL450 , 2023-Aug-14	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 300.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-14, 16:44	2023-08-14, 16:53
psSAR1g [W/Kg]	9.71	9.88
psSAR10g [W/Kg]	6.94	6.93
Power Drift [dB]	-0.03	-0.09
TSL Correction	Positive only	Positive only
M2/M1 [%]		85.2
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED, Canada Face (450-470MHz)

Table 28

8/17/23, 1:29 AM

FRONT_25-00_AN000451A01_PMNN4815A_front_NA_0_CW_470-00MHz.html

Motorola Solutions, EME Laboratory

2023-08-17, 01:16

Measurement Report for PMUE2891A, 287TZP0477,FRONT, D450, CW, Channel 70 (470.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 25.00	D450	CW, 0--	470.0, 70	11.47	0.881	41.9

Hardware Setup

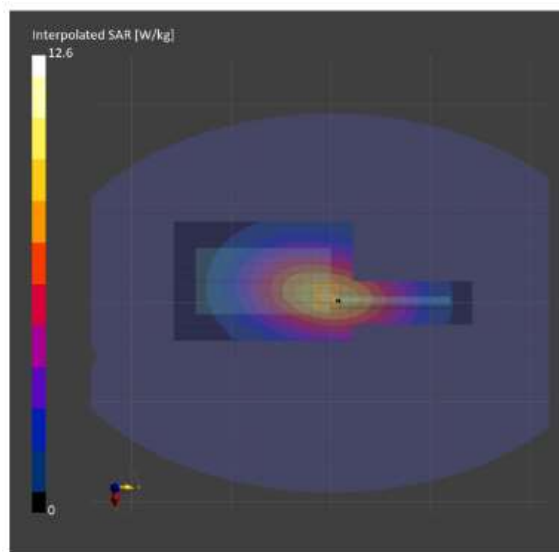
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL450 , 2023-Aug-17	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 300.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-17, 01:16	2023-08-17, 01:26
psSAR1g [W/Kg]	8.54	8.66
psSAR10g [W/Kg]	6.24	6.42
Power Drift [dB]	0.00	-0.04
TSL Correction	Positive only	Positive only
M2/M1 [%]		87.8
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at outside FCC Frequency range Body Table 23

8/16/23, 11:30 AM

BACK_0-00_AN000451A01_PMNN4813A_PMLN8370A_PMLN8295A_0_CW_512-00MHz.html

Motorola Solutions, EME Laboratory

2023-08-16, 11:04

Measurement Report for PMUE2891A, 287TZP0477, BACK, Custom Band, CW, Channel 512000 (512.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0--	512.0, 512000	11.47	0.917	41.1

Hardware Setup

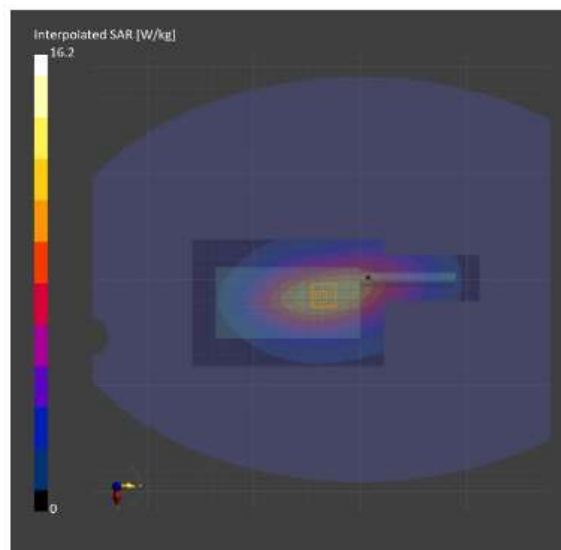
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1016	HSL450, 2023-Aug-16	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-16, 11:04	2023-08-16, 11:14
psSAR1g [W/Kg]	10.9	11.0
psSAR10g [W/Kg]	7.84	7.89
Power Drift [dB]	-0.02	-0.06
TSL Correction	Positive only	Positive only
M2/M1 [%]		87.4
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at outside FCC Frequency range Face Table 29

8/18/23, 7:33 AM

FRONT_25-00_AN000452A01_PMNN4815A_front_NA_0_CW_393-10MHz.html

Motorola Solutions, EME Laboratory

2023-08-18, 07:14

Measurement Report for PMUE2891A, 287TZP0477,FRONT, Custom Band, CW, Channel 393100 (393.1 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 25.00	Custom Band	CW, 0--	393.1, 393100	11.47	0.846	44.2

Hardware Setup

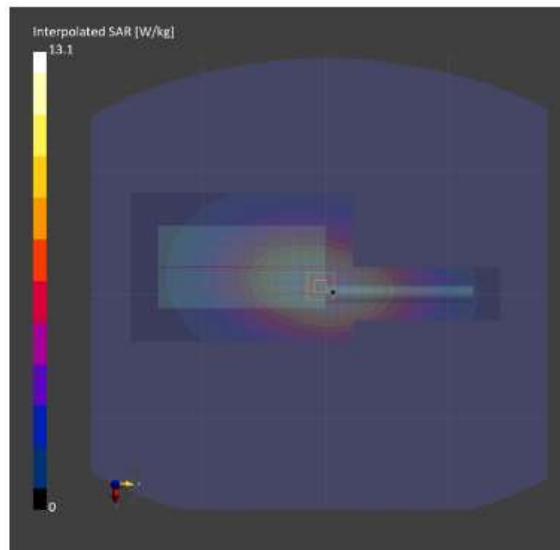
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1037	HSL450 , 2023-Aug-18	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 300.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-08-18, 07:14	2023-08-18, 07:23
psSAR1g [W/Kg]	9.21	9.35
psSAR10g [W/Kg]	6.75	6.99
Power Drift [dB]	-0.01	-0.07
TSL Correction	Positive only	Positive only
M2/M1 [%]		87.9
Dist 3dB Peak [mm]		> 15.0



Highest SAR configuration of assessment at FCC/ISED Canada Body for WLAN 2.4GHz

Table 31

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/16/2023 7:27:25 PM

Robot#: DASY5-PG-3 | Run#: IRA-AB-230816-11
 Model#: H25XDF9PW6AN (PMUE2891A)
 Phantom#: EL14 1109
 Tissue Temp: 20.3 (C)
 Serial#: 287TZP0464
 Antenna: AN000410A01
 Test Freq: 2462.0000 (MHz)
 Battery: PMNN4813A
 Carry Acc: PMLN8369A
 Audio Acc: None
 Start Power: 0.0461 (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: $f = 2462$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 39.3$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 2462 MHz, ConvF(7.71, 7.71, 7.71) @ 2462 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

2-3 GHz-Rev.3/Ab Scan/1-Area Scan (81x221x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 7.823 V/m; Power Drift = -0.28 dB

Fast SAR: SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.043 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.120 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 = 7.823 V/m; Power Drift = -0.30 dB

Peak SAR (extrapolated) = 0.154 W/kg

SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.041 W/kg (SAR corrected for target medium)

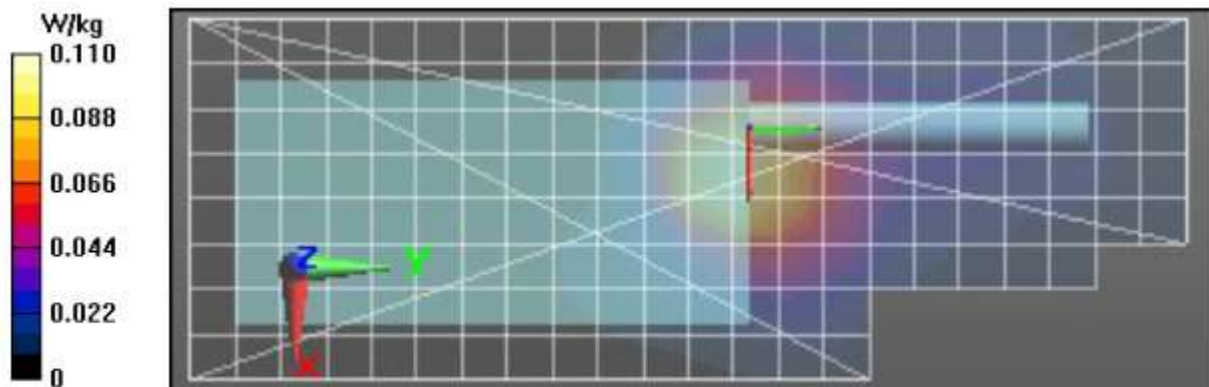
Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 0.119 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) = 0.120 W/kg



Highest SAR configuration of assessment at FCC/ISED Canada Face for WLAN 2.4GHz

Table 31

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/16/2023 3:53:42 PM

Robot#: DASY5-PG-3 | Run#: MFR(MHN)-FACE-230816-08
 Model#: H25XDF9PW6AN (PMUE2891A)
 Phantom#: ELI4 1109
 Tissue Temp: 21.7 (C)
 Serial#: 287TZP0464
 Antenna: AN000410A01
 Test Freq: 2437.0000 (MHz)
 Battery: PMNN4813A
 Carry Acc: Radio @ front 2.5cm
 Audio Acc: None
 Start Power: 0.0478 (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; $\sigma = 1.79$ S/m; $\epsilon_r = 39.4$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 2437 MHz, ConvF(7.71, 7.71, 7.71) @ 2437 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

2-3 GHz-Rev.3/Face Scan/1-Area Scan (81x221x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 4.436 V/m; Power Drift = 0.36 dB

Fast SAR: SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.015 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.0397 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 = 4.436 V/m; Power Drift = 0.32 dB

Peak SAR (extrapolated) = 0.0490 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.013 W/kg (SAR corrected for target medium)

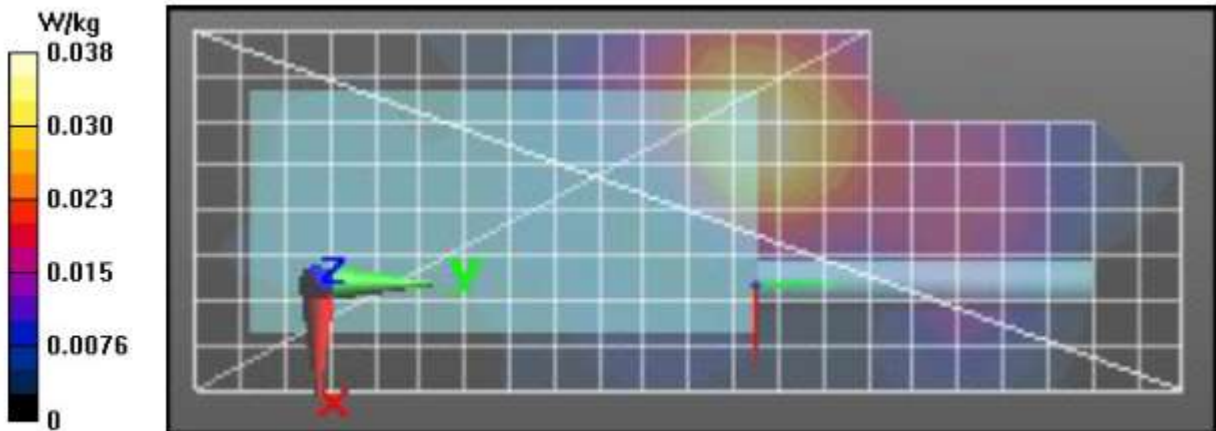
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 51.7%

Maximum value of SAR (measured) = 0.0399 W/kg

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

Maximum value of SAR (measured) = 0.0385 W/kg



Highest SAR configuration of assessment at FCC/ISED Canada Body for WLAN 5GHz (U-NII-2A)

Table 33

Motorola Solutions, Inc. EME Laboratory
Date/Time: 8/19/2023 2:13:37 AM

Robot#: DASY5-PG-3 | Run#: IRA-AB-230819-02@
 Model#: H25XDF9PW6AN (PMUE2891A)
 Phantom#: EL14 1109
 Tissue Temp: 21.0 (C)
 Serial#: 287TZP0464
 Antenna: AN000410A01
 Test Freq: 5300.0000 (MHz)
 Battery: PMNN4813A
 Carry Acc: PMLN8369A
 Audio Acc: None
 Start Power: 0.0257 (W)

Comments:Communication System Band: WLAN 5GHz (4915.0 - 5825.0 MHz), Communication System UID: 10417 - AAC, Duty Cycle: 1:6.64967,

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.43$ S/m; $\epsilon_r = 33.9$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 5300 MHz, ConvF(5.6, 5.6, 5.6) @ 5300 MHz
 Electronics: DAE4 Sn684, Calibrated: 2/22/2022

4-6 GHz-Rev.5/Full Ab Scan/1-Area Scan (111x281x1): Interpolated grid: dx=0.9000 mm, dy=0.9000 mm

Reference Value = 3.634 V/m; Power Drift = -0.17 dB

Fast SAR: SAR(1 g) = 0.025 W/kg; SAR(10 g) = 0.011 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.0555 W/kg

4-6 GHz-Rev.5/Full Ab Scan/2-Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.634 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.0840 W/kg

SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.014 W/kg (SAR corrected for target medium)

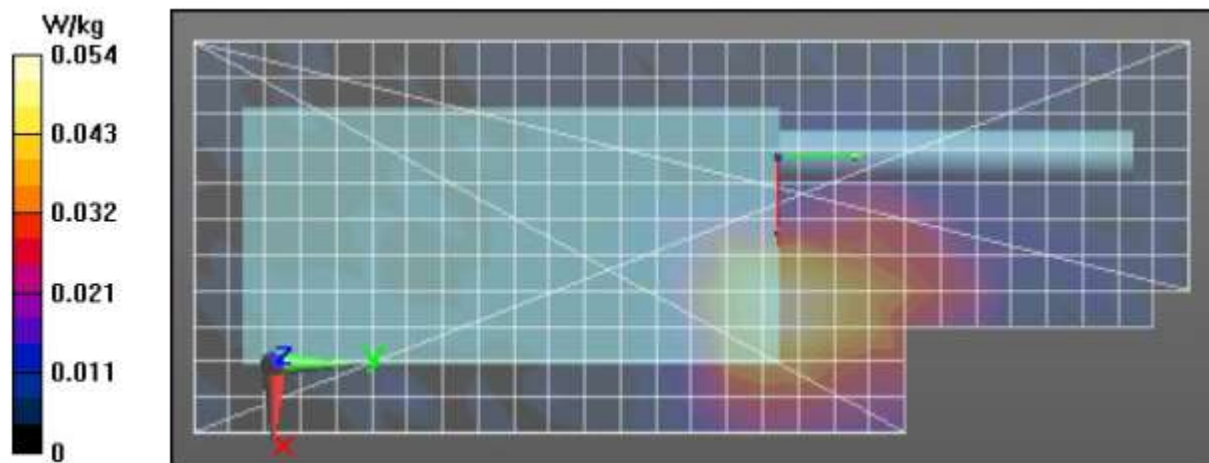
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.0541 W/kg

4-6 GHz-Rev.5/Full Ab Scan/3-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.0494 W/kg



Highest SAR configuration of assessment at FCC/ISED Canada Face for WLAN 5GHz (U-NII-2A)

Table 33

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/19/2023 12:26:46 AM

Robot#: DASY5-PG-3 | Run#: IRA-FACE-230819-01@
 Model#: H25XDF9PW6AN (PMUE2891A)
 Phantom#: ELI4 1109
 Tissue Temp: 21.5 (C)
 Serial#: 287TZP0464
 Antenna: AN000410A01
 Test Freq: 5260.0000 (MHz)
 Battery: PMNN4813A
 Carry Acc: Radio @ front 2.5cm
 Audio Acc: None
 Start Power: 0.0249 (W)

Comments:

Communication System Band: WLAN 5GHz (4915.0 - 5825.0 MHz), Communication System UID: 10417 - AAC, Duty Cycle: 1:6.64967,

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.39$ S/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 5260 MHz, ConvF(5.6, 5.6, 5.6) @ 5260 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

4-6 GHz-Rev.5/Full Face Scan/1-Area Scan (111x281x1): Interpolated grid: dx=0.9000 mm, dy=0.9000 mm

Reference Value = 2.702 V/m; Power Drift = -0.44 dB

Fast SAR: SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.00731 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.0367 W/kg

4-6 GHz-Rev.5/Full Face Scan/2-Zoom Scan (10x10x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.702 V/m; Power Drift = -0.38 dB

Peak SAR (extrapolated) = 0.0630 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00846 W/kg (SAR corrected for target medium)

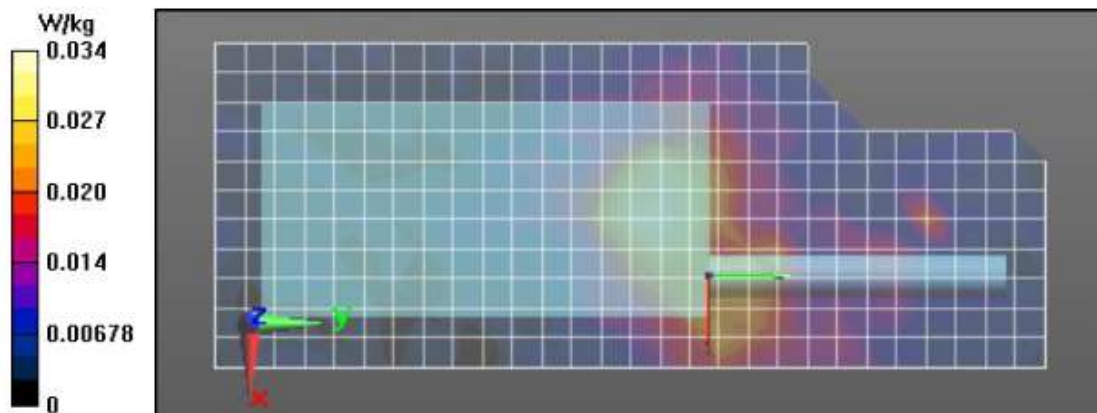
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 83.3%

Maximum value of SAR (measured) = 0.0282 W/kg

4-6 GHz-Rev.5/Full Face Scan/3-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.0174 W/kg



Highest SAR configuration of assessment at FCC/ISED Canada Body for WLAN 5GHz (U-NII-2C)

Table 33

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/22/2023 8:27:58 AM

Robot#: DASY5-PG-3 | Run#: IRA-AB-230822-01@
 Model#: H25XDF9PW6AN (PMUE2891A)
 Phantom#: EL14 1109
 Tissue Temp: 21.3 (C)
 Serial#: 287TZP0464
 Antenna: AN000410A01
 Test Freq: 5640.0000 (MHz)
 Battery: PMNN4813A
 Carry Acc: PMLN8370A
 Audio Acc: None
 Start Power: 0.0244 (W)

Comments: Shorten Scan

Communication System Band: WLAN 5GHz (4915.0 - 5825.0 MHz), Communication System UID: 10417 - AAC, Duty Cycle: 1:6.64967,

Medium parameters used: $f = 5640$ MHz; $\sigma = 4.82$ S/m; $\epsilon_r = 33.2$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 5640 MHz, ConvF(4.83, 4.83, 4.83) @ 5640 MHz
 Electronics: DAE4 Sn684, Calibrated: 2/22/2022

4-6 GHz-Rev.5/Shortened Ab Scan/1-Area Scan (111x281x1): Interpolated grid: dx=0.9000 mm, dy=0.9000 mm

Reference Value = 4.055 V/m; Power Drift = -0.59 dB

Fast SAR: SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.018 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.200 W/kg

4-6 GHz-Rev.5/Shortened Ab Scan/2-Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.288 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.022 W/kg (SAR corrected for target medium)

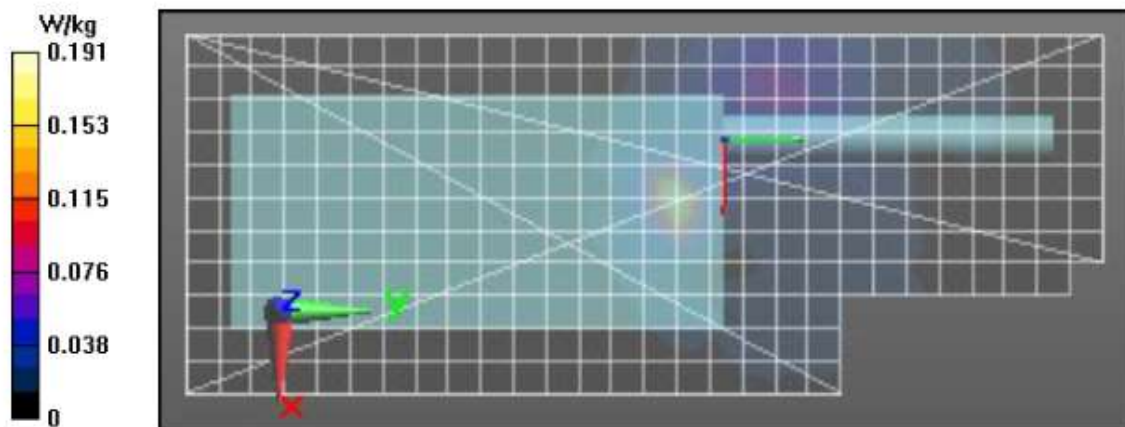
Smallest distance from peaks to all points 3 dB below = 4.9 mm

Ratio of SAR at M2 to SAR at M1 = 48.8%

Maximum value of SAR (measured) = 0.210 W/kg

4-6 GHz-Rev.5/Shortened Ab Scan/3-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.208 W/kg



Highest SAR configuration of assessment at FCC/ISED Canada Face for WLAN 5GHz (U-NII-2C)

Table 33

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/21/2023 7:14:54 PM

Robot#: DASY5-PG-3 | Run#: MFR(MHN)-FACE-230821-10
 Model#: H25XDF9PW6AN (PMUE2891A)
 Phantom#: ELI4 1109
 Tissue Temp: 20.5 (C)
 Serial#: 287TZP0464
 Antenna: AN000410A01
 Test Freq: 5640.0000 (MHz)
 Battery: PMNN4813A
 Carry Acc: Radio @ front 2.5cm
 Audio Acc: None
 Start Power: 0.0244 (W)

Comments:

Communication System Band: WLAN 5GHz (4915.0 - 5825.0 MHz), Communication System UID: 10417 - AAC, Duty Cycle: 1:6.64967,

Medium parameters used: $f = 5640$ MHz; $\sigma = 4.82$ S/m; $\epsilon_r = 33.2$; $\rho = 1000$ kg/m³

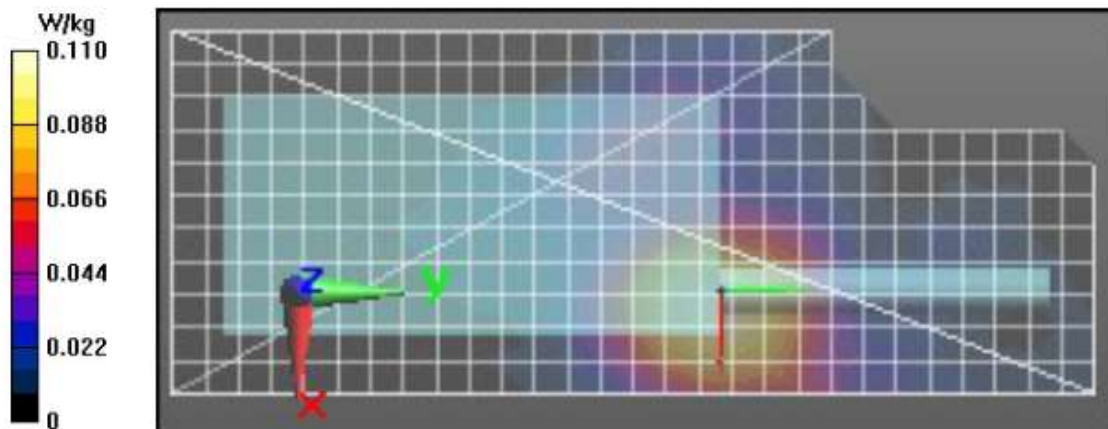
Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 5640 MHz, ConvF(4.83, 4.83, 4.83) @ 5640 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

4-6 GHz-Rev.5/Shortened Face Scan/1-Area Scan (111x281x1): Interpolated grid: dx=0.9000 mm, dy=0.9000 mm
 Reference Value = 5.352 V/m; Power Drift = -0.43 dB
Fast SAR: SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.023 W/kg (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.113 W/kg

4-6 GHz-Rev.5/Shortened Face Scan/2-Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
 Reference Value = 5.229 V/m; Power Drift = -0.38 dB
 Peak SAR (extrapolated) = 0.232 W/kg
SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.026 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 = 48.9%
 Maximum value of SAR (measured) = 0.108 W/kg

4-6 GHz-Rev.5/Shortened Face Scan/3-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.0816 W/kg



Highest SAR configuration of assessment at FCC/ISED Canada Body for WLAN 5GHz (U-NII-3)

Table 33

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/21/2023 2:01:10 AM

Robot#: DASY5-PG-3 | Run#: MFR(MHN)-AB-230821-02@
 Model#: H25XDF9PW6AN (PMUE2891A)
 Phantom#: ELI4 1109
 Tissue Temp: 22.1 (C)
 Serial#: 287TZP0464
 Antenna: AN000410A01
 Test Freq: 5660.0000 (MHz)
 Battery: PMNN4813A
 Carry Acc: PMLN8370A
 Audio Acc: None
 Start Power: 0.0237 (W)

Comments: Full Scan

Communication System Band: WLAN 5GHz (4915.0 - 5825.0 MHz), Communication System UID: 10417 - AAC, Duty Cycle: 1:6.64967,

Medium parameters used: $f = 5660$ MHz; $\sigma = 4.93$ S/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 5660 MHz, ConvF(4.83, 4.83, 4.83) @ 5660 MHz
 Electronics: DAE4 Sn684, Calibrated: 2/22/2022

4-6 GHz-Rev.5/Full Ab Scan/1-Area Scan (111x281x1): Interpolated grid: dx=0.9000 mm, dy=0.9000 mm

Reference Value = 4.743 V/m; Power Drift = -0.51 dB

Fast SAR: SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.017 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.177 W/kg

4-6 GHz-Rev.5/Full Ab Scan/2-Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.743 V/m; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 0.564 W/kg

SAR(1 g) = 0.060 W/kg; SAR(10 g) = 0.021 W/kg (SAR corrected for target medium)

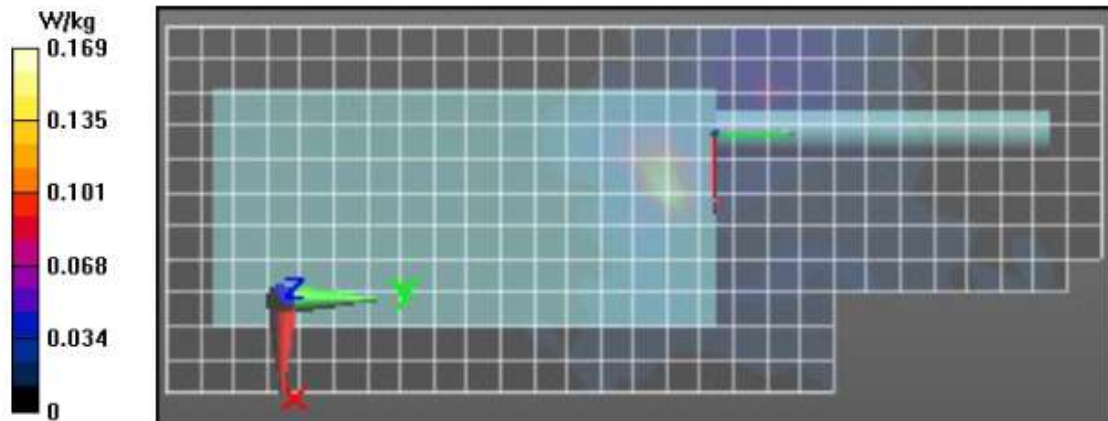
Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.2%

Maximum value of SAR (measured) = 0.160 W/kg

4-6 GHz-Rev.5/Full Ab Scan/3-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.0238 W/kg



Highest SAR configuration of assessment at FCC/ISED Canada Face for WLAN 5GHz (U-NII-3)

Table 33

Motorola Solutions, Inc. EME Laboratory

Date/Time: 8/21/2023 11:14:30 PM

Robot#: DASY5-PG-3 | Run#: MHN-FACE-230821-12
 Model#: H25XDF9PW6AN (PMUE2891A)
 Phantom#: ELI4 1109
 Tissue Temp: 20.6 (C)
 Serial#: 287TZP0464
 Antenna: AN000410A01
 Test Freq: 5660.0000 (MHz)
 Battery: PMNN4813A
 Carry Acc: Radio @ front 2.5cm
 Audio Acc: None
 Start Power: 0.0237 (W)

Comments:

Communication System Band: WLAN 5GHz (4915.0 - 5825.0 MHz), Communication System UID: 10417 - AAC, Duty Cycle: 1:6.64967,

Medium parameters used: $f = 5660$ MHz; $\sigma = 4.84$ S/m; $\epsilon_r = 33.2$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7519, Calibrated: 2/28/2022, Frequency: 5660 MHz, ConvF(4.83, 4.83, 4.83) @ 5660 MHz

Electronics: DAE4 Sn684, Calibrated: 2/22/2022

4-6 GHz-Rev.5/Full Face Scan/1-Area Scan (111x281x1): Interpolated grid: dx=0.9000 mm,

dy=0.9000 mm

Reference Value = 5.218 V/m; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.020 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.101 W/kg

4-6 GHz-Rev.5/Full Face Scan/2-Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 5.218 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.207 W/kg

SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.025 W/kg (SAR corrected for target medium)

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

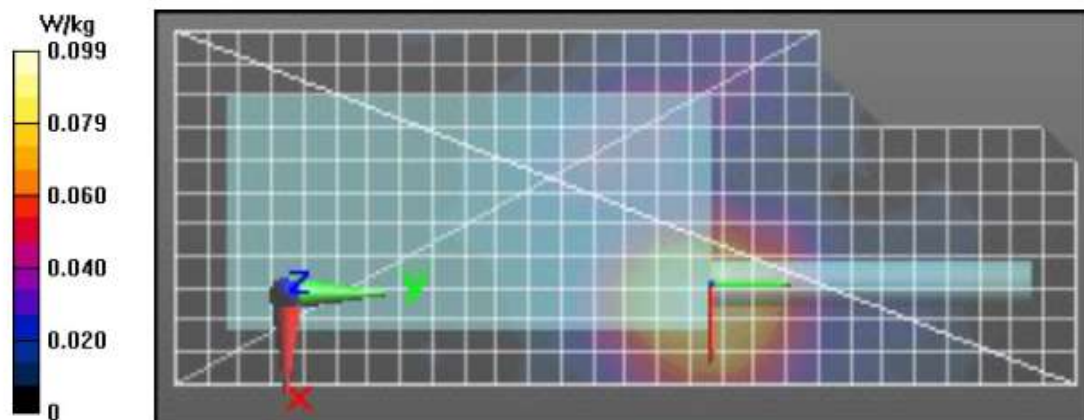
Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 0.105 W/kg

4-6 GHz-Rev.5/Full Face Scan/3-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm,

dz=10mm

Maximum value of SAR (measured) = 0.101 W/kg



APPENDIX F

Shortened Scan of Highest SAR configuration

Shorten Scan Assessment Table 34

9/26/23, 11:37 AM

BACK_0-00_AN000451A01_PMNN4813A_PMLN8370A_PMLN8295A_0_CW_512-00MHz.html

Motorola Solutions, EME Laboratory

2023-09-26, 11:03

Measurement Report for PMUE2891A, 287TZP0477, BACK, Custom Band, CW, Channel 512000 (512.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUE2891A	287TZP0477	136.0 x 67.0 x 35.0

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0--	512.0, 512000	11.47	0.915	41.3

Hardware Setup

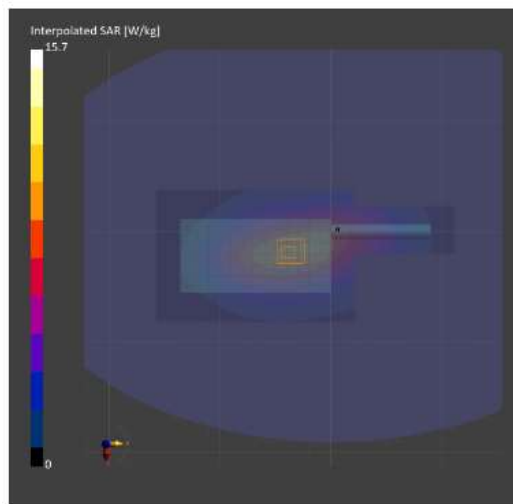
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - ELI4 1037	HSL450 , 2023-Sep-26	EX3DV4 - SN7594, 2022-04-26	DAE4 Sn729, 2021-06-09

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-09-26, 11:03	2023-09-26, 11:33
psSAR1g [W/Kg]	9.80	10.9
psSAR10g [W/Kg]	7.07	7.99
Power Drift [dB]	0.01	0.27
TSL Correction	Positive only	Positive only
M2/M1 [%]		87.3
Dist 3dB Peak [mm]		> 15.0



APPENDIX G

DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX H

DUT, Body worn and audio accessories Photos

Photos are available in Exhibit 7B