



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: 07/02/2024 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: (HVIN/PMN) Serial Number(s): Classification: Firmware Version (FVIN): Applicant Name: Applicant Address: FCC ID: FCC Test Firm Registration Number: IC: IC Test Site registration:	Puteri Alifah Ilyana Binti Nor Rahim (EME Engineer) Puteri Alifah Ilyana Binti Nor Rahim (EME Engineer) 5/15/2024-5/16/2024 & 5/24/2024 Motorola Solutions Inc. Sanmina, Penang Handheld Portable – TANAPA BPR 50DX 136-174 MHz 5W NKP CW (PTT) Refer Table 3 Refer Table 3 Refer Table 3 Refer Table 3 Refer Table 3 AAH88LDK8AD5BN Refer Section 1.0 Introduction 02721AE0323 Occupational/Controlled Environment I001.058 Motorola Solutions Inc. Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia AZ489FT3856 This report contains results that are immaterial for FCC equipment approval, which are clearly identified. 823256 109U-89FT3856 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 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: 07/02/2024

Appendix D

System Verification Check Scans

Table 13

5/16/24, 2:10 PM

__0_CW_150-00MHz.html

Motorola Solutions, EME Laboratory

2024-05-16, 13:45

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]
CLA-150 - SN4016	150.0	HSL	30.0	7.3	5.0

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	0		CW, 0--	150.0, 0	10.14	0.770	49.9

Hardware Setup

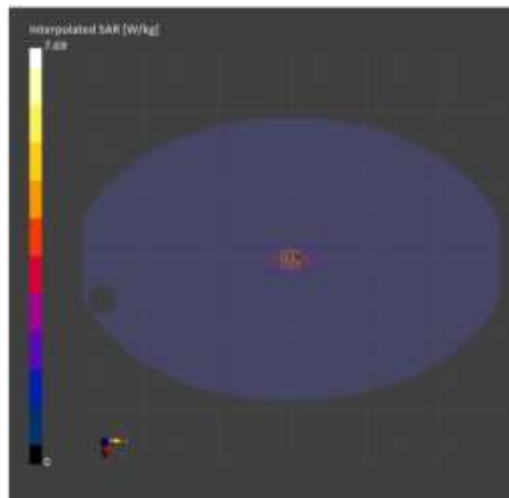
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1011	HSL150 , 2024-May-16	EX3DV4 - SN3612, 2021-10-22	DAE4 Sn1483, 2022-10-10

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	2024-05-16, 13:45	2024-05-16, 13:53
psSAR1g [W/Kg]	4.13	4.05
psSAR10g [W/Kg]	2.95	2.61
Power Drift [dB]	-0.00	0.01
TSL Correction	Positive / Negative	Positive / Negative



Appendix E

DUT Scans

Highest SAR Configuration of LMR assessments at the FCC Body (150.8-173.4 MHz)

Table 18

5/27/24, 1:55 PM

BACK_0-00_AN000465A01_PMNN4847A_PMLN8600A_PMLN6542A_0_CW_159-10MHz.html

Motorola Solutions, EME Laboratory

2024-05-27, 13:26

Measurement Report for PMUD3535A, 02721AE0323, BACK, Custom Band, CW, Channel 159100 (159.1 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUD3535A	02721AE0323	121.0 x 60.0 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--	159.1, 159100	10.14	0.732	49.7

Hardware Setup

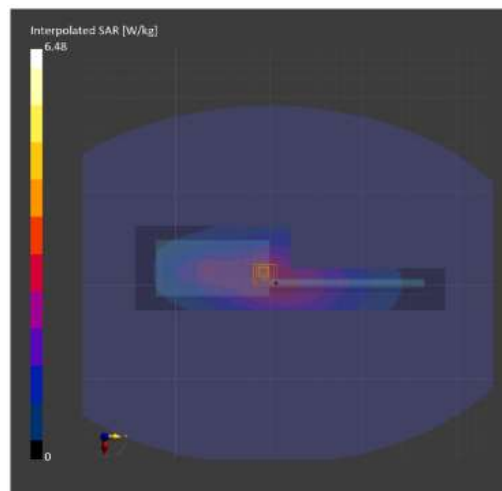
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1011	HSL150, 2024-May-27	EX3DV4 - SN3612, 2021-10-22	DAE4 Sn1483, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	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	2024-05-27, 13:26	2024-05-27, 13:37
psSAR1g [W/Kg]	3.29	3.24
psSAR10g [W/Kg]	2.42	2.22
Power Drift [dB]	0.07	-0.52
TSL Correction	Positive only	Positive only
M2/M1 [%]		73.2
Dist 3dB Peak [mm]		18.8



Highest SAR Configuration of LMR assessments at the FCC Face (150.8-173.4MHz)

Table 20

5/15/24, 5:47 AM

FRONT_25-00_AN000465A01_PMNN4847A_front_NA_0_CW_159-10MHz.html

Motorola Solutions, EME Laboratory

2024-05-15, 05:26

Measurement Report for PMUD3535A, 02721AE023,FRONT, Custom Band, CW, Channel 159100 (159.1 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUD3535A	02721AE023	121.0 x 60.0 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--	159.1, 159100	10.14	0.742	49.5

Hardware Setup

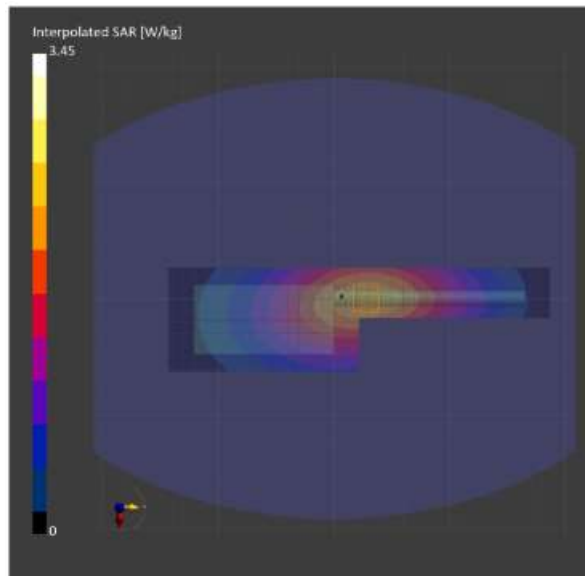
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1011	HSL150, 2024-May-14	EX3DV4 - SN3612, 2021-10-22	DAE4 Sn1483, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	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 + Gp	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-15, 05:26	2024-05-15, 05:42
psSAR1g [W/Kg]	2.38	2.24
psSAR10g [W/Kg]	1.83	1.71
Power Drift [dB]	-0.19	-0.63
TSL Correction	Positive only	Positive only
M2/M1 [%]		82.7
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at outside FCC Frequency range Body (136-174 MHz)

Table 21

5/29/24, 4:59 PM

BACK_0-00_AN000464A01_PMNN4847A_PMLN8600A_PMLN6542A_0_CW_138-00MHz.html

Motorola Solutions, EME Laboratory

2024-05-29, 16:46

Measurement Report for PMUD3535A, 02721AE0323, BACK, CLA150, CW, Channel 38 (138.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUD3535A	02721AE0323	121.0 x 60.0 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	CLA150	CW, 0--	138.0, 38	10.14	0.777	52.6

Hardware Setup

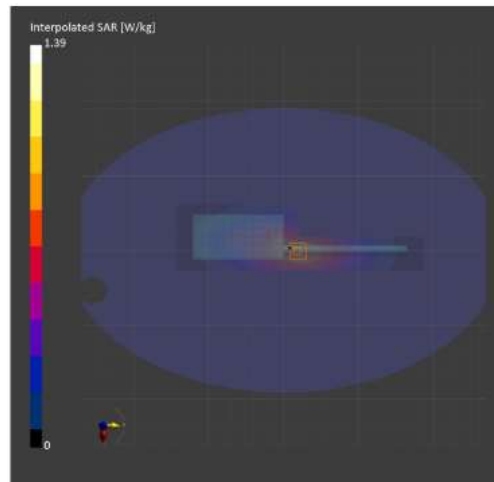
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1011	HSL150 , 2024-May-29	EX3DV4 - SN3612, 2021-10-22	DAE4 Sn1483, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	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	2024-05-29, 16:46	2024-05-29, 16:57
psSAR1g [W/Kg]	0.856	0.852
psSAR10g [W/Kg]	0.660	0.628
Power Drift [dB]	-0.05	-0.16
TSL Correction	Positive only	Positive only
M2/M1 [%]		82.9
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at outside FCC Frequency range Face (136-174 MHz)

Table 21

5/16/24, 4:21 PM

FRONT_25-00_AN000464A01_PMNN4847A_front_NA_0_CW_138-00MHz.html

Motorola Solutions, EME Laboratory

2024-05-16, 16:08

Measurement Report for PMUD3535A, 02721AE0323,FRONT, CLA150, CW, Channel 38 (138.0 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUD3535A	02721AE0323	121.0 x 60.0 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	CLA150	CW, 0--	138.0, 38	10.14	0.762	50.5

Hardware Setup

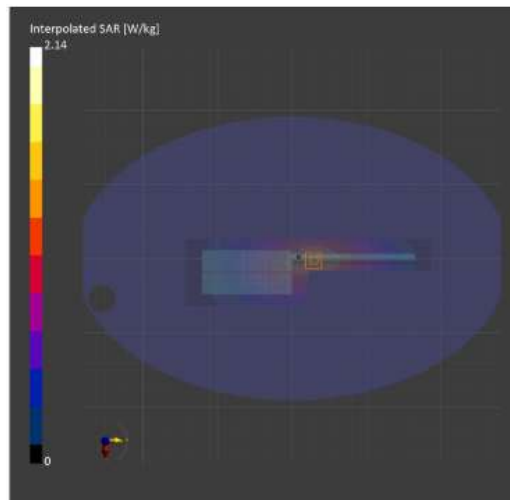
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1011	HSL150, 2024-May-16	EX3DV4 - SN3612, 2021-10-22	DAE4 Sn1483, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	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	2024-05-16, 16:08	2024-05-16, 16:18
psSAR1g [W/Kg]	1.33	1.34
psSAR10g [W/Kg]	1.03	1.02
Power Drift [dB]	-0.08	-0.25
TSL Correction	Positive only	Positive only
M2/M1 [%]		82.4
Dist 3dB Peak [mm]		> 15.0



Highest SAR Configuration of LMR assessments at the ISED, Canada Body (138-174MHz)

Table 22

5/27/24, 1:55 PM

BACK_0-00_AN000465A01_PMNN4847A_PMLN8600A_PMLN6542A_0_CW_159-10MHz.html

Motorola Solutions, EME Laboratory

2024-05-27, 13:26

Measurement Report for PMUD3535A, 02721AE0323, BACK, Custom Band, CW, Channel 159100 (159.1 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUD3535A	02721AE0323	121.0 x 60.0 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--	159.1, 159100	10.14	0.732	49.7

Hardware Setup

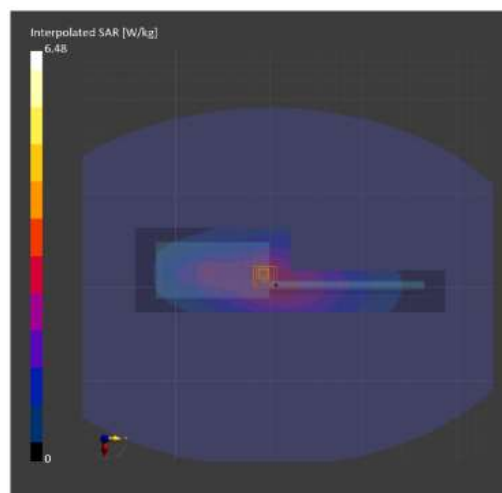
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1011	HSL150 , 2024-May-27	EX3DV4 - SN3612, 2021-10-22	DAE4 Sn1483, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	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	2024-05-27, 13:26	2024-05-27, 13:37
psSAR1g [W/Kg]	3.29	3.24
psSAR10g [W/Kg]	2.42	2.22
Power Drift [dB]	0.07	-0.52
TSL Correction	Positive only	Positive only
M2/M1 [%]		73.2
Dist 3dB Peak [mm]		18.8



Highest SAR Configuration of LMR assessments at the ISED, Canada Face (138-174 MHz)

Table 22

5/15/24, 5:47 AM

FRONT_25-00_AN000465A01_PMNN4847A_front_NA_0_CW_159-10MHz.html

Motorola Solutions, EME Laboratory

2024-05-15, 05:26

Measurement Report for PMUD3535A, 02721AE023,FRONT, Custom Band, CW, Channel 159100 (159.1 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUD3535A	02721AE023	121.0 x 60.0 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--	159.1, 159100	10.14	0.742	49.5

Hardware Setup

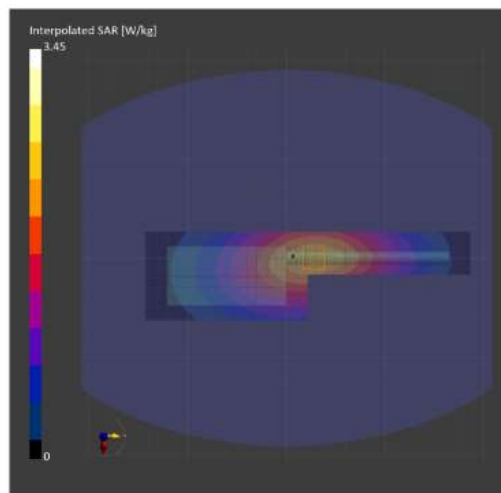
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1011	HSL150, 2024-May-14	EX3DV4 - SN3612, 2021-10-22	DAE4 Sn1483, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	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 + Gp	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-15, 05:26	2024-05-15, 05:42
psSAR1 g [W/Kg]	2.38	2.24
psSAR1 Dg [W/Kg]	1.83	1.71
Power Drift [dB]	-0.19	-0.63
TSL Correction	Positive only	Positive only
M2/M1 [%]		82.7
Dist 3dB Peak [mm]		> 15.0



APPENDIX F

Shortened Scan of Highest SAR configuration

Shortened Scan Assessment

Table 23

5/28/24, 5:43 AM

BACK_0-00_AN000465A01_PMNN4847A_PMLN8600A_PMLN6542A_0_CW_159-10MHz.html

Motorola Solutions, EME Laboratory

2024-05-28, 05:18

Measurement Report for PMUD3535A, 02721AE0323, BACK, Custom Band, CW, Channel 159100 (159.1 MHz)

Device Under Test Properties

Model	Serial Number	Dimensions [mm]
PMUD3535A	02721AE0323	121.0 x 60.0 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--	159.1, 159100	10.14	0.732	49.7

Hardware Setup

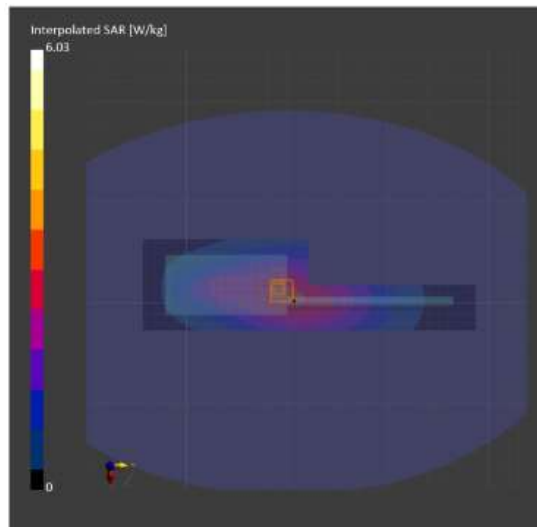
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1011	HSL150, 2024-May-28	EX3DV4 - SN3612, 2021-10-22	DAE4 Sn1483, 2022-10-10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	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	2024-05-28, 05:18	2024-05-28, 05:34
psSAR1g [W/Kg]	3.17	3.18
psSAR10g [W/Kg]	2.35	2.23
Power Drift [dB]	-0.21	-0.35
TSL Correction	Positive only	Positive only
M2/M1 [%]		76.3
Dist 3dB Peak [mm]		> 15.0



APPENDIX G

DUT Test Position Photos

Photos are available in Exhibit 7B

APPENDIX H

DUT, Body worn and audio accessories Photos

Photos are available in Exhibit 7B