MOTOROLA SOLUTIONS

MS ISO/IEC 17025 TESTING SAMM No. 0826

ACCREDITED CERTIFICATE 2518.05

DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

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

Date of Report: 07/27/2020
Report Revision: D

Responsible Engineer:	Ch'ng Jian Sheng (EME Engineer)
Report Author:	Lee Kin Kting (Senior Technician)
Date/s Tested:	5/22/2020 - 5/26/2020, 06/03/2020, 06/17/2020, 06/19/2020
Manufacturer:	Motorola Solutions Inc.
DUT Description:	Tanapa T270 FRS Consumer Radio 462-467MHZ Blue
Test TX mode(s):	CW (PTT)
Max. Power output:	1.20W (462.5500 MHz - 462.7250 MHz), 0.60W (467.5625 MHz - 467.7125 MHz)
Nominal Power:	1.00W (462.5500 MHz - 462.7250 MHz), 0.53W (467.5625 MHz - 467.7125 MHz)
Tx Frequency Bands:	462.5500 MHz - 462.7250 MHz , 467.5625 MHz - 467.7125 MHz
Signaling type:	FM
Model(s) Tested:	T27X (PMUE5688A)
Model(s) Certified:	T27X (PMUE5695A)
Serial Number(s):	16510WK0601, 16510WK0602
Classification:	General Population/Uncontrolled Environment
Applicant name:	Motorola Solutions Inc.
Applicant address:	8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322
FCC ID:	AZ489FT4961
IC:	109U-89FT4961
ISED Test Site registration:	24843
FCC Test Firm Registration Number:	823256

The test results clearly demonstrate compliance with FCC General Population / Uncontrolled RF Exposure limits of 1.6 W/kg averaged over 1 gram per the requirements of FCC 47 CFR § 2.1093 and RSS-102 (Issue 5).

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 4.0 of this report (no deviation from standard methods). This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc EME Laboratory.
I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.

Tiong Nguk Ing
Digitally signed by Tiong Nguk Ing
Date: 2020.07.27 13:05:46 +08'00'

Tiong Nguk Ing
Deputy Technical Manager (Approved Signatory)
Approval Date: 07/27/2020

Appendix D
System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/22/2020 5:17:19 PM

Robot#: DASY5-PG-2 | Run#:	BL-SYSP-450H-200522-06
Dipole Model#	D450V3
Phantom#:	ELI5 1147
Tissue Temp:	22.8 (C)
Serial#:	1054
Test Freq:	450.0000 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.17 dB
Adjusted SAR (1W):	4.40 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.9 S/m; ε_r = 42.9; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 450 MHz, ConvF(11.59, 11.59, 11.59) @ 450 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x201x1):

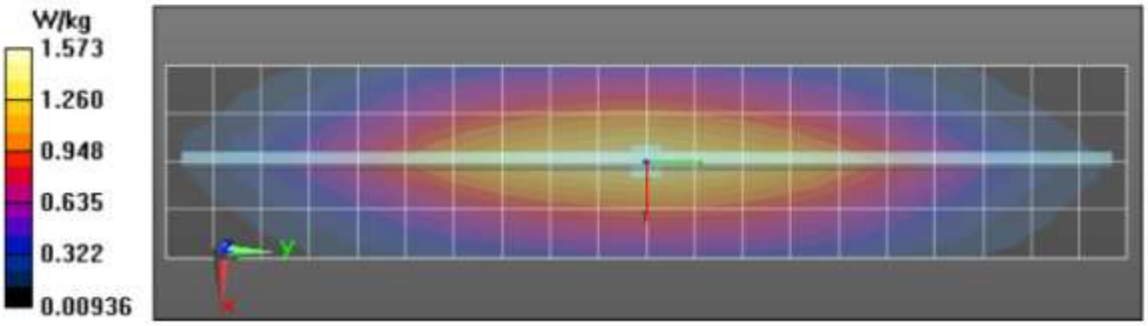
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 42.60 V/m; Power Drift = 0.00 dB
Fast SAR: SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.842 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.57 W/kg

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 = 42.60 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.86 W/kg
SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.722 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.58 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) = 1.58 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/24/2020 9:40:04 AM

Robot#: DASY5-PG-2 | Run#:	BL-SYSP-450H-200524-01
Dipole Model#	D450V3
Phantom#:	ELI5 1147
Tissue Temp:	21.5 (C)
Serial#:	1054
Test Freq:	450.0000 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.15 dB
Adjusted SAR (1W):	4.52 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.85 S/m; ε_r = 41.9; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 450 MHz, ConvF(11.59, 11.59, 11.59) @ 450 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x201x1):

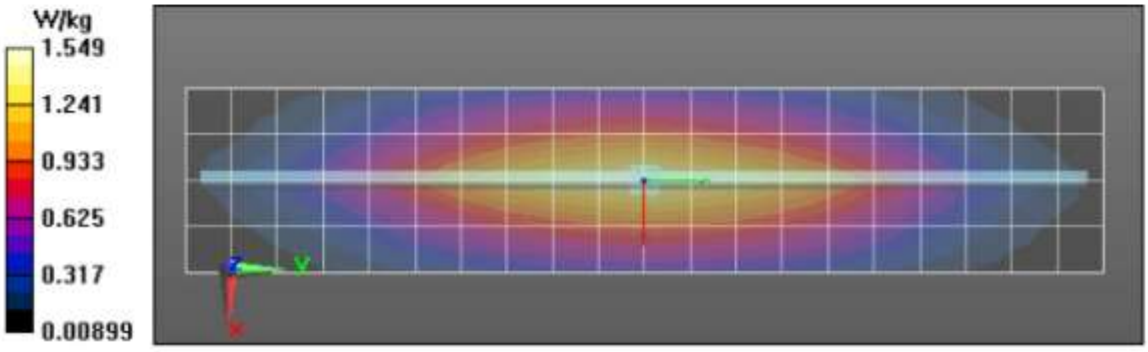
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 43.46 V/m; Power Drift = 0.02 dB
Fast SAR: SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.855 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.55 W/kg

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 = 43.46 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.741 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.55 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) = 1.54 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/25/2020 10:02:20 AM

Robot#: DASY5-PG-2 | Run#:	BL-SYSP-450H-200525-03
Dipole Model#	D450V3
Phantom#:	ELI5 1147
Tissue Temp:	21.5 (C)
Serial#:	1054
Test Freq:	450.0000 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.16 dB
Adjusted SAR (1W):	4.48 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.85 S/m; ε_r = 42.2; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 450 MHz, ConvF(11.59, 11.59, 11.59) @ 450 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x201x1):

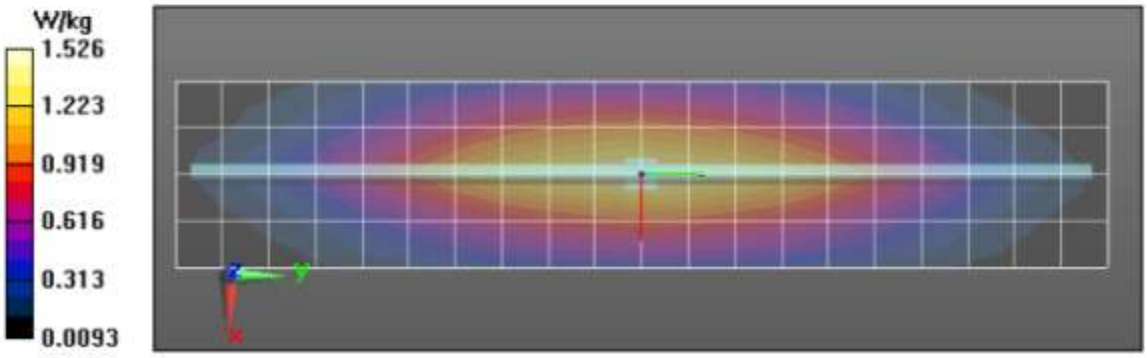
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 43.30 V/m; Power Drift = 0.00 dB
Fast SAR: SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.845 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.53 W/kg

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 = 43.30 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.79 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.734 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.53 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) = 1.54 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/26/2020 10:16:02 AM

Robot#: DASY5-PG-2 | Run#:	BL-SYSP-450H-200526-05
Dipole Model#	D450V3
Phantom#:	ELI5 1147
Tissue Temp:	22.0 (C)
Serial#:	1054
Test Freq:	450.0000 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.14 dB
Adjusted SAR (1W):	4.60 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.84 S/m; ε_r = 41.7; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 450 MHz, ConvF(11.59, 11.59, 11.59) @ 450 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x201x1):

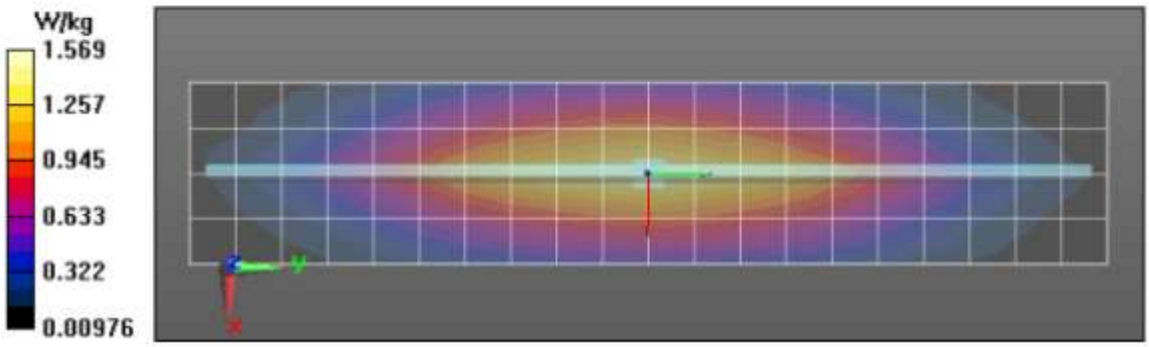
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 43.96 V/m; Power Drift = -0.01 dB
Fast SAR: SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.874 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.57 W/kg

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 = 43.96 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.83 W/kg
SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.761 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.57 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) = 1.57 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/3/2020 1:54:12 AM

Robot#: DASY5-PG-2 | Run#:	BL-SYSP-450H-200603-01
Dipole Model#	D450V3
Phantom#:	ELI5 1147
Tissue Temp:	21.6 (C)
Serial#:	1054
Test Freq:	450.0000 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.14 dB
Adjusted SAR (1W):	4.32 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.89 S/m; ε_r = 42; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 450 MHz, ConvF(11.59, 11.59, 11.59) @ 450 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x201x1):

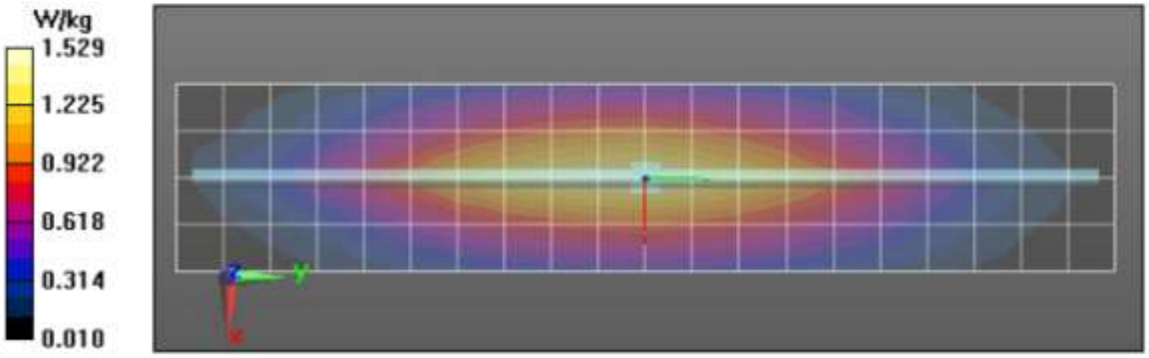
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 42.33 V/m; Power Drift = -0.01 dB
Fast SAR: SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.826 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.53 W/kg

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 = 42.33 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.80 W/kg
SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.717 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.54 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) = 1.54 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/17/2020 8:18:57 AM

Robot#: DASY5-PG-4 | Run#:	ZZ(MA)-SYSP-450H-200617-04
Dipole Model#	D450V3
Phantom#:	ELI4 1022
Tissue Temp:	20.5 (C)
Serial#:	1053
Test Freq:	450.0000 (MHz)
Start Power:	250 (mW)
Rotation (1D):	0.160 dB
Adjusted SAR (1W):	4.40 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.89 S/m; ε_r = 43.1; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 450 MHz, ConvF(10.3, 10.3, 10.3) @ 450 MHz
Electronics: DAE4 Sn729, Calibrated: 10/16/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x241x1):

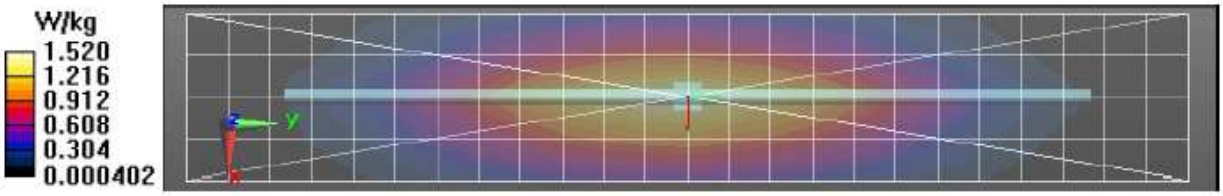
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 42.26 V/m; Power Drift = 0.02 dB
Fast SAR: SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.829 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.53 W/kg

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 = 42.26 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.80 W/kg
SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.738 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.54 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) = 1.54 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/19/2020 8:57:50 AM

Robot#: DASY5-PG-4 | Run#: ZZ(MA)-SYSP-450H-200619-05
Dipole Model# D450V3
Phantom#: ELI4 1022
Tissue Temp: 21.6 (C)
Serial#: 1053
Test Freq: 450.0000 (MHz)
Start Power: 250 (mW)
Rotation (1D): 0.240 dB
Adjusted SAR (1W): 4.56 mW/g (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 450 MHz; σ = 0.87 S/m; ε_r = 42.2; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 450 MHz, ConvF(10.3, 10.3, 10.3) @ 450 MHz
Electronics: DAE4 Sn729, Calibrated: 10/16/2019

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (41x241x1):

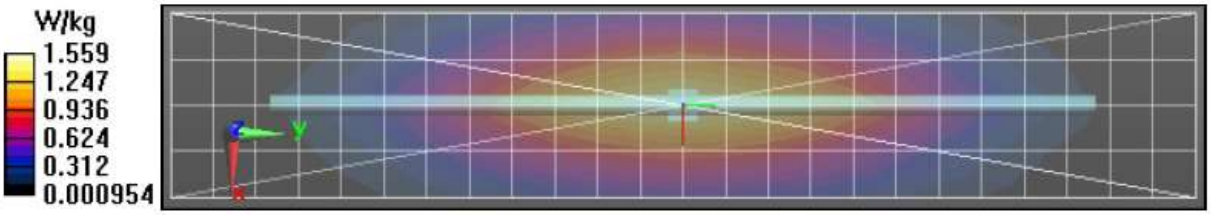
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 42.84 V/m; Power Drift = -0.01 dB
Fast SAR: SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.853 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.56 W/kg

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 = 42.84 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.83 W/kg
SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.758 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.57 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) = 1.56 W/kg



Appendix E
DUT Scans

Assessments at the Body for band 462.5500 – 462.7250MHz - Table 18

Motorola Solutions, Inc. EME Laboratory
Date/Time: 5/22/2020 10:01:09 PM

Robot#: DASY5-PG-2 | Run#:	BL-AB-200522-11
Model#:	T270 (PMUE5688A)
Phantom#:	ELI5 1147
Tissue Temp:	21.8 (C)
Serial#:	16510WK0602
Antenna:	Fixed antenna
Test Freq:	462.6250 (MHz)
Battery:	PMNN4477A
Carry Acc:	1564028V01
Audio Acc:	1884
Start Power:	1.12 (W)

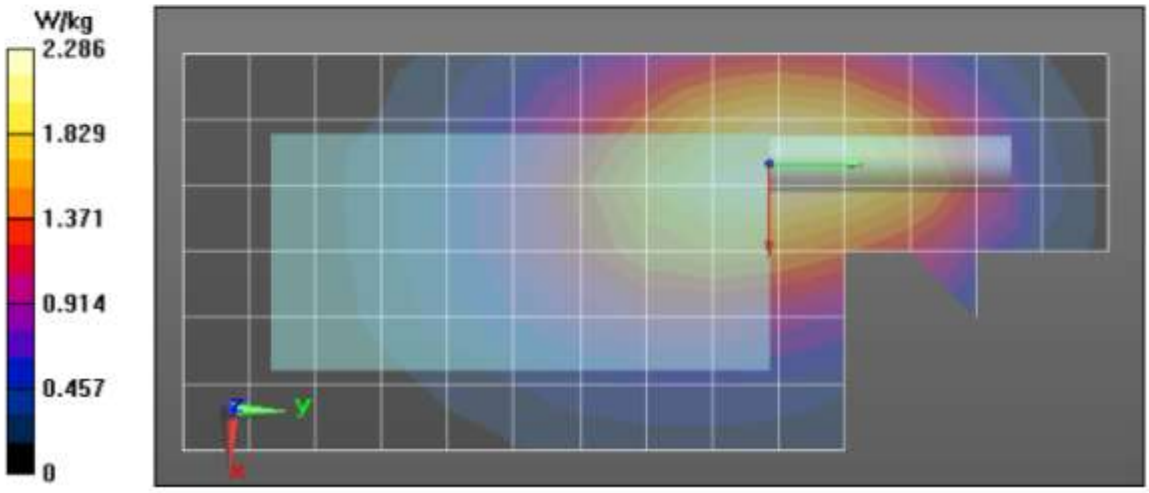
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 463 MHz; σ = 0.91 S/m; ε_r = 42.6; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 462.625 MHz, ConvF(11.59, 11.59, 11.59) @ 462.625 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 55.06 V/m; Power Drift = -0.58 dB
Fast SAR: SAR(1 g) = 1.88 W/kg; SAR(10 g) = 1.35 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 2.32 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 = 55.06 V/m; Power Drift = -0.73 dB
Peak SAR (extrapolated) = 2.62 W/kg
SAR(1 g) = 1.72 W/kg; SAR(10 g) = 1.2 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 2.28 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.23 W/kg



Assessments at the Body for band 462.5500 – 462.7250MHz - Table 19

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/23/2020 1:20:39 AM

Robot#: DASY5-PG-2 | Run#:	BL-AB-200523-02#
Model#:	T270 (PMUE5688A)
Phantom#:	ELI5 1147
Tissue Temp:	21.3 (C)
Serial#:	16510WK0602
Antenna:	Fixed antenna
Test Freq:	462.6250 (MHz)
Battery:	1532
Carry Acc:	42015005001
Audio Acc:	GU7140A (1884)
Start Power:	1.09 (W)

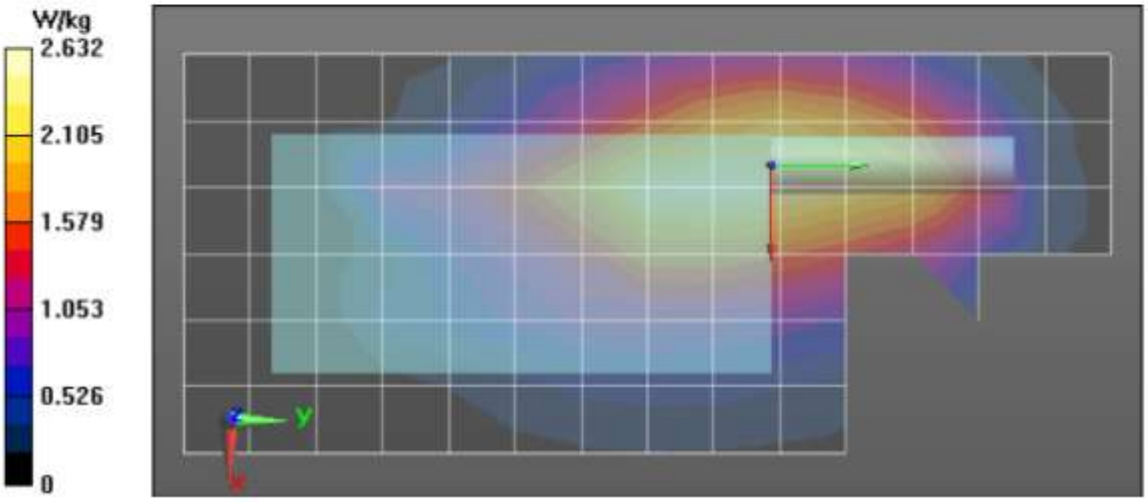
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 463 MHz; σ = 0.91 S/m; ε_r = 42.6; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 462.625 MHz, ConvF(11.59, 11.59, 11.59) @ 462.625 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 57.52 V/m; Power Drift = -0.50 dB
Fast SAR: SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.51 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 2.66 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 57.52 V/m; Power Drift = -0.67 dB
Peak SAR (extrapolated) = 2.99 W/kg
SAR(1 g) = 1.88 W/kg; SAR(10 g) = 1.27 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 2.52 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.51 W/kg



Assessments at the Body for band 462.5500 – 462.7250MHz - Table 20

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/23/2020 2:41:38 AM

Robot#: DASY5-PG-2 | Run#:	BL-AB-200523-04#
Model#:	T270 (PMUE5688A)
Phantom#:	ELI5 1147
Tissue Temp:	21.0 (C)
Serial#:	16510WK0602
Antenna:	Fixed antenna
Test Freq:	462.6250 (MHz)
Battery:	AAA ALKALINE
Carry Acc:	PMLN7706A
Audio Acc:	1884
Start Power:	1.18 (W)

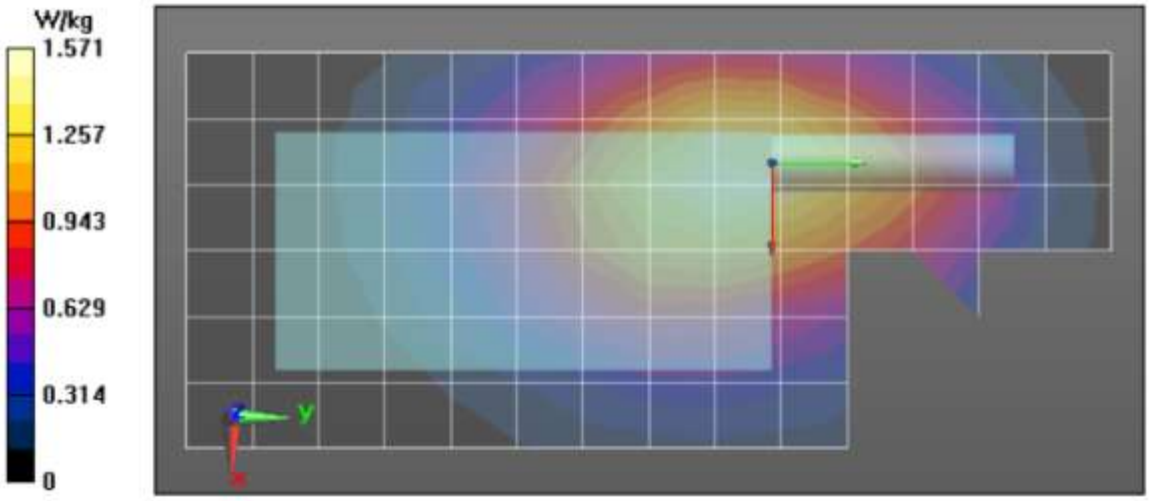
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 463 MHz; σ = 0.91 S/m; ε_r = 42.6; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 462.625 MHz, ConvF(11.59, 11.59, 11.59) @ 462.625 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 44.27 V/m; Power Drift = -0.64 dB
Fast SAR: SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.918 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.58 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 = 44.27 V/m; Power Drift = -0.79 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.793 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.52 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) = 1.48 W/kg



Assessment at the Body with other audio accessories for band 462.5500 – 462.7250MHz - Table 21

Motorola Solutions, Inc. EME Laboratory
Date/Time: 5/24/2020 1:43:48 PM

Robot#: DASY5-PG-2 | Run#:	BL-AB-200524-07
Model#:	T270 (PMUE5688A)
Phantom#:	ELI5 1147
Tissue Temp:	21.2 (C)
Serial#:	16510WK0602
Antenna:	Fixed antenna
Test Freq:	462.6250 (MHz)
Battery:	1532
Carry Acc:	42015005001
Audio Acc:	PMLN7705A (PMLN7705AR)
Start Power:	1.09(W)

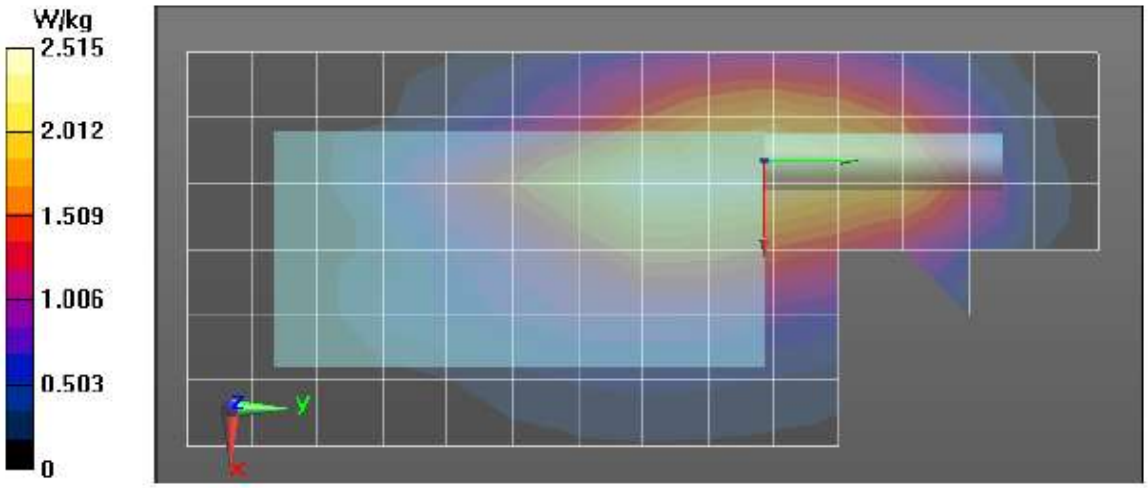
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 463 MHz; σ = 0.86 S/m; ε_r = 41.6; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 462.625 MHz, ConvF(11.59, 11.59, 11.59) @ 462.625 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 56.91 V/m; Power Drift = -0.48 dB
Fast SAR: SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.42 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 2.58 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 56.91 V/m; Power Drift = -0.81 dB
Peak SAR (extrapolated) = 2.91 W/kg
SAR(1 g) = 1.75 W/kg; SAR(10 g) = 1.18 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 2.41 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.26 W/kg



Assessments at the Face for band 462.5500 – 462.7250MHz - Table 23

Motorola Solutions, Inc. EME Laboratory
Date/Time: 5/24/2020 3:58:38 PM

Robot#: DASY5-PG-2 | Run#: BL-FACE-200524-11
Model#: T270 (PMUE5688A)
Phantom#: ELI5 1147
Tissue Temp: 20.8 (C)
Serial#: 16510WK0601
Antenna: Fixed antenna
Test Freq: 462.6250 (MHz)
Battery: 1532
Carry Acc: @ front
Audio Acc: N/A
Start Power: 1.09 (W)

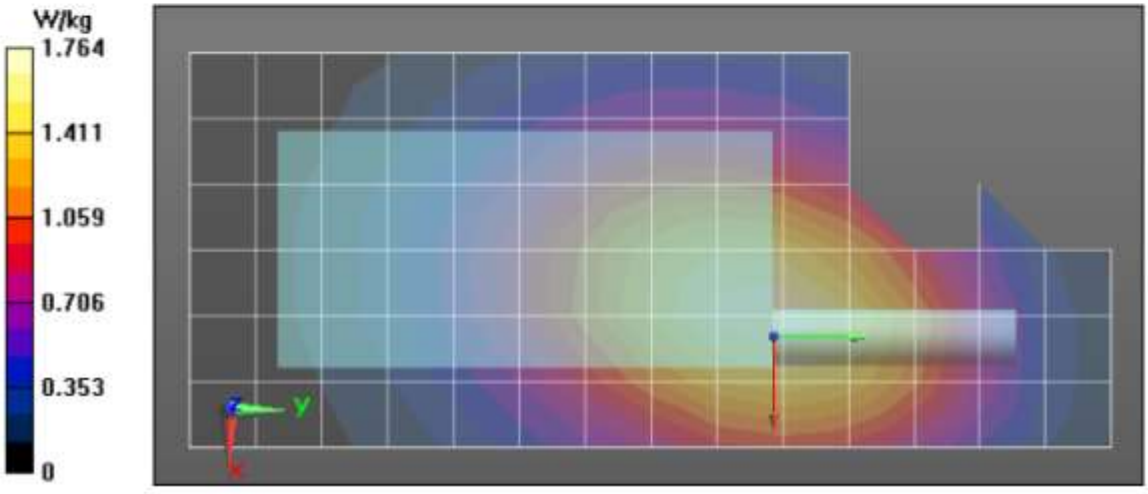
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 463 MHz; σ = 0.86 S/m; ε_r = 41.6; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 462.625 MHz, ConvF(11.59, 11.59, 11.59) @ 462.625 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 46.68 V/m; Power Drift = -0.37 dB
Fast SAR: SAR(1 g) = 1.44 W/kg; SAR(10 g) = 1.04 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.77 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 = 46.68 V/m; Power Drift = -0.51 dB
Peak SAR (extrapolated) = 1.90 W/kg
SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.922 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.66 W/kg

Below 2 GHz-Rev.3/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 1.64 W/kg



Assessments at the Body for band 467.5625MHz - 467.7125MHz - Table 25

Motorola Solutions, Inc. EME Laboratory
Date/Time: 6/17/2020 4:47:23 PM

Robot#: DASY5-PG-4 | Run#: ZZ(MA)-AB-200617-12
Model#: T27X (PMUE5688A)
Phantom#: ELI4 1022
Tissue Temp: 21.0 (C)
Serial#: 16510WK0601
Antenna: Fixed antenna
Test Freq: 467.6375 (MHz)
Battery: 1532
Carry Acc: 1564028V01
Audio Acc: GU7140A (1884)
Start Power: 0.526 (W)

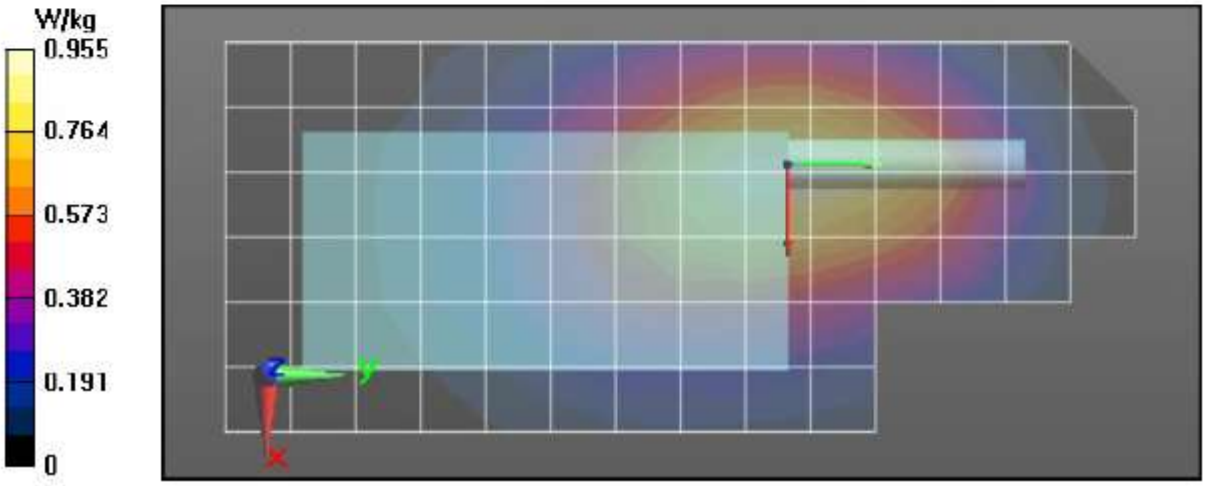
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 468 MHz; σ = 0.91 S/m; ε_r = 42.7; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7511, Calibrated: 10/24/2019, Frequency: 467.6 MHz, ConvF(10.3, 10.3, 10.3) @ 467.6 MHz
Electronics: DAE4 Sn729, Calibrated: 10/16/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 33.88 V/m; Power Drift = -0.31 dB
Fast SAR: SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.558 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 0.975 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 = 33.88 V/m; Power Drift = -0.36 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.503 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.949 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) = 0.938 W/kg



Assessments at the Body for band 467.5625MHz - 467.7125MHz - Table 26

Motorola Solutions, Inc. EME Laboratory
Date/Time: 5/25/2020 12:30:01 PM

Robot#: DASY5-PG-2 | Run#:	BL-AB-200525-07
Model#:	T270 (PMUE5688A)
Phantom#:	ELI5 1147
Tissue Temp:	21.3 (C)
Serial#:	16510WK0602
Antenna:	Fixed antenna
Test Freq:	467.6375 (MHz)
Battery:	1532
Carry Acc:	42015005001
Audio Acc:	1884
Start Power:	0.526 (W)

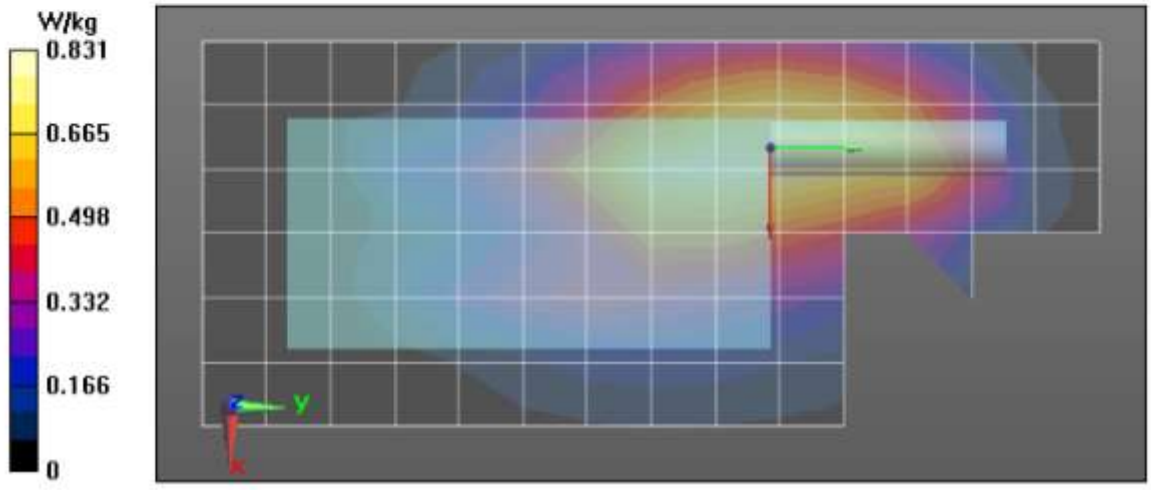
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 468 MHz; σ = 0.87 S/m; ε_r = 41.8; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 467.637 MHz, ConvF(11.59, 11.59, 11.59) @ 467.637 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 32.86 V/m; Power Drift = -0.32 dB
Fast SAR: SAR(1 g) = 0.681 W/kg; SAR(10 g) = 0.483 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 0.845 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 = 32.86 V/m; Power Drift = -0.37 dB
Peak SAR (extrapolated) = 0.985 W/kg
SAR(1 g) = 0.610 W/kg; SAR(10 g) = 0.411 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.836 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) = 0.833 W/kg



Assessments at the Body for band 467.5625MHz - 467.7125MHz - Table 27

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/25/2020 2:23:21 PM

Robot#: DASY5-PG-2 | Run#:	BL-AB-200525-10
Model#:	T270 (PMUE5688A)
Phantom#:	ELI5 1147
Tissue Temp:	21.1 (C)
Serial#:	16510WK0602
Antenna:	Fixed antenna
Test Freq:	467.6375 (MHz)
Battery:	1532
Carry Acc:	PMLN7706A
Audio Acc:	1884
Start Power:	0.526 (W)

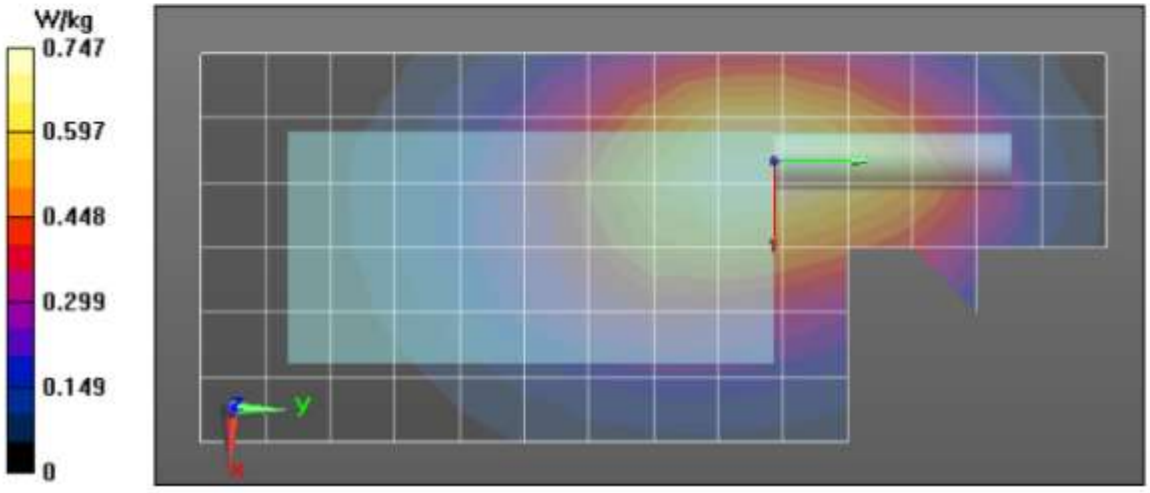
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 468 MHz; σ = 0.87 S/m; ε_r = 41.8; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 467.637 MHz, ConvF(11.59, 11.59, 11.59) @ 467.637 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 31.21 V/m; Power Drift = -0.41 dB
Fast SAR: SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.443 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 0.767 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 = 31.21 V/m; Power Drift = -0.47 dB
Peak SAR (extrapolated) = 0.857 W/kg
SAR(1 g) = 0.556 W/kg; SAR(10 g) = 0.388 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.738 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) = 0.739 W/kg



Assessments at the Face for band 467.5625MHz - 467.7125MHz - Table 29

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/26/2020 8:38:49 AM

Robot#: DASY5-PG-2 | Run#:	BL-FACE-200526-03#
Model#:	T270 (PMUE5688A)
Phantom#:	ELI5 1147
Tissue Temp:	21.2 (C)
Serial#:	16510WK0601
Antenna:	Fixed antenna
Test Freq:	467.6375 (MHz)
Battery:	1532
Carry Acc:	@ front
Audio Acc:	N/A
Start Power:	0.526 (W)

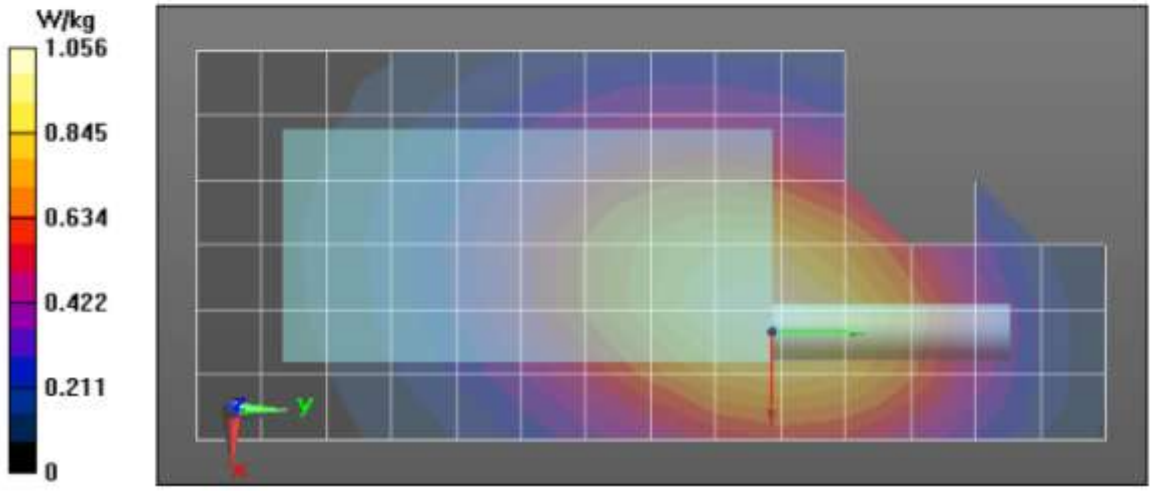
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 468 MHz; σ = 0.87 S/m; ε_r = 41.8; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 467.637 MHz, ConvF(11.59, 11.59, 11.59) @ 467.637 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 35.90 V/m; Power Drift = -0.37 dB
Fast SAR: SAR(1 g) = 0.857 W/kg; SAR(10 g) = 0.618 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 1.06 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 = 35.90 V/m; Power Drift = -0.44 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.557 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.01 W/kg

Below 2 GHz-Rev.3/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 1.02 W/kg



APPENDIX F
Shortened Scan of Highest SAR configuration

Shortened Scan - Table 30

Motorola Solutions, Inc. EME Laboratory
Date/Time: 5/26/2020 11:03:15 AM

Robot#: DASY5-PG-2 | Run#:	BL-AB-200526-06
Model#:	T270 (PMUE5688A)
Phantom#:	ELI5 1147
Tissue Temp:	22.0 (C)
Serial#:	16510WK0602
Antenna:	Fixed antenna
Test Freq:	462.6250 (MHz)
Battery:	1532
Carry Acc:	42015005001
Audio Acc:	GU7140A (1884)
Start Power:	1.09 (W)

Comments: Shorten Scan

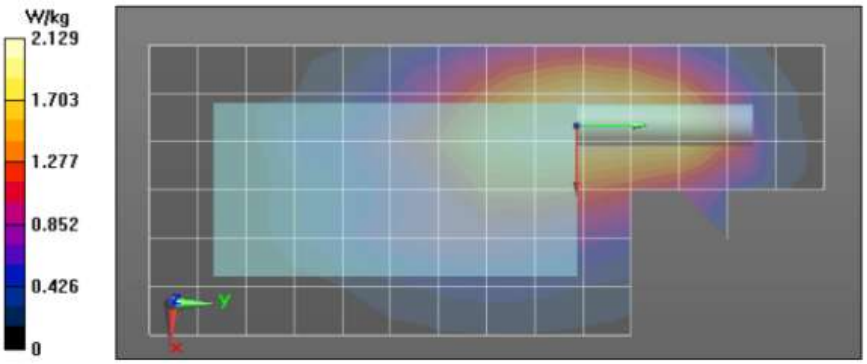
Duty Cycle: 1:1, Medium parameters used: f = 463 MHz; σ = 0.85 S/m; ε_r = 41.4; ρ = 1000 kg/m^3
Probe: EX3DV4 - SN7534, Calibrated: 7/25/2019, Frequency: 462.625 MHz, ConvF(11.59, 11.59, 11.59) @ 462.625 MHz
Electronics: DAE3 Sn374, Calibrated: 7/17/2019

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 53.77 V/m; Power Drift = -0.30 dB
Fast SAR: SAR(1 g) = 1.79 W/kg; SAR(10 g) = 1.27 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 2.20 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 = 53.77 V/m; Power Drift = -0.35 dB
Fast SAR: SAR(1 g) = 1.82 W/kg; SAR(10 g) = 1.29 W/kg (SAR corrected for target medium)
Maximum value of SAR (interpolated) = 2.22 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 = 57.94 V/m; Power Drift = -0.44 dB
Peak SAR (extrapolated) = 3.02 W/kg
SAR(1 g) = 1.89 W/kg; SAR(10 g) = 1.28 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 2.57 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.21 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)	30	7	1.15
Full scan (area & zoom)	19	20	1.21

APPENDIX G
DUT Test Position Photos

Photos available in Exhibit 7B

APPENDIX H
DUT, Body worn and audio accessories Photos

Photos available in Exhibit 7B