SAR Test Report
Part 2 of 3

Project Number:	**4659833**	**Quotation Number:**	**04192019TH-1.3**
Report Number:	**4659833EMC05.2**	**Revision Level:**	**0**
Client:	**KCI USA, Inc.**		

Equipment Under Test:	**ActiV.A.C. Therapy System**
Model Name:	**ActiVAC RTM**
Model Number:	**60511**
Contains FCC ID:	**2AHDZ-ACTIVAC4G and SQGBL652**
Applicable Standards:	**IEC 62209-2 2010**
Report issued on:	**21 December 2020**
Test Result:	**Compliant**

Tested by: _____

Stephen C. Whalen, EMC/RF Exposure Manager

Reviewed by: _____

David Schramm, Operations Manager

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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APPENDIX A - PHOTOS OF EUT AND TEST POSITION(S)

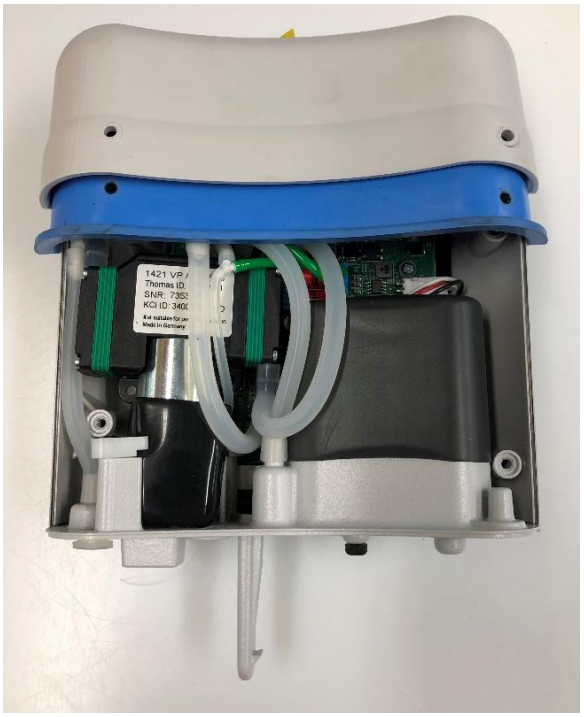
EUT Standalone

Front

Back

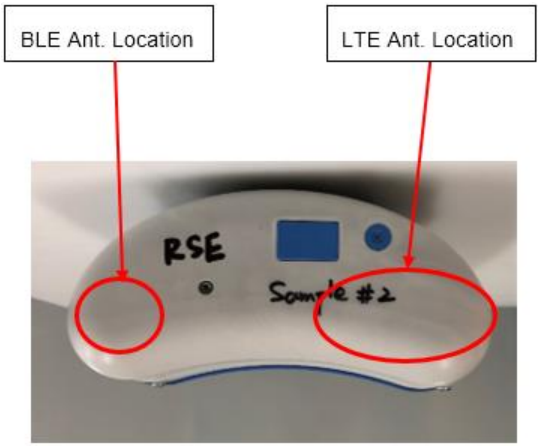
Top

Bottom



Back (cover removed)

Back



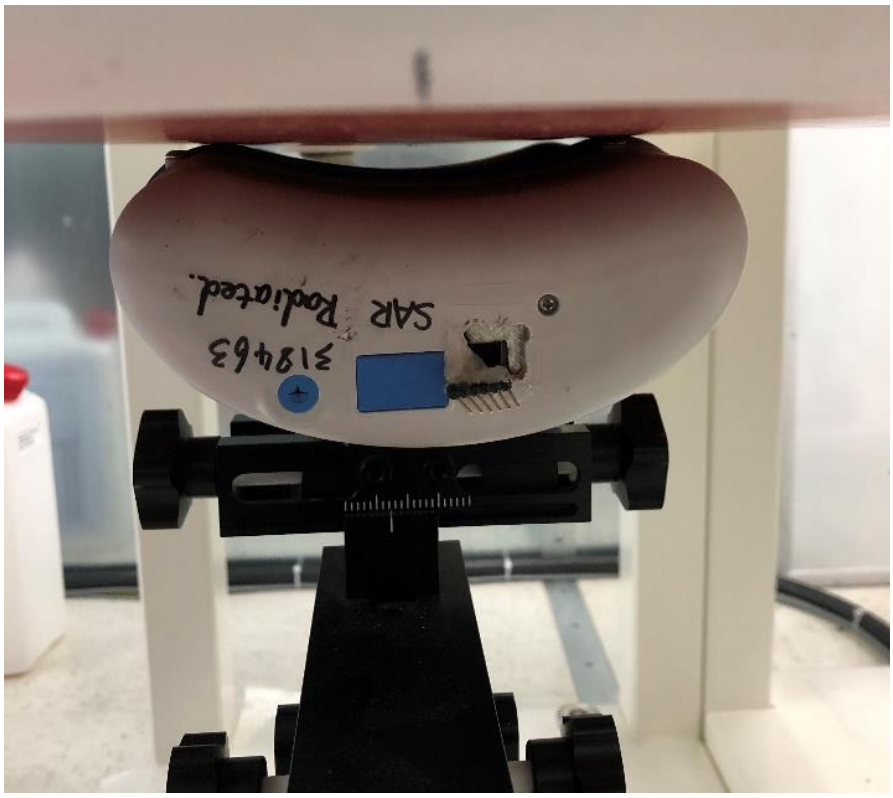
Top

Front view of carry case (closed flap) with shoulder strap

Front of carry case (open flap to show display)

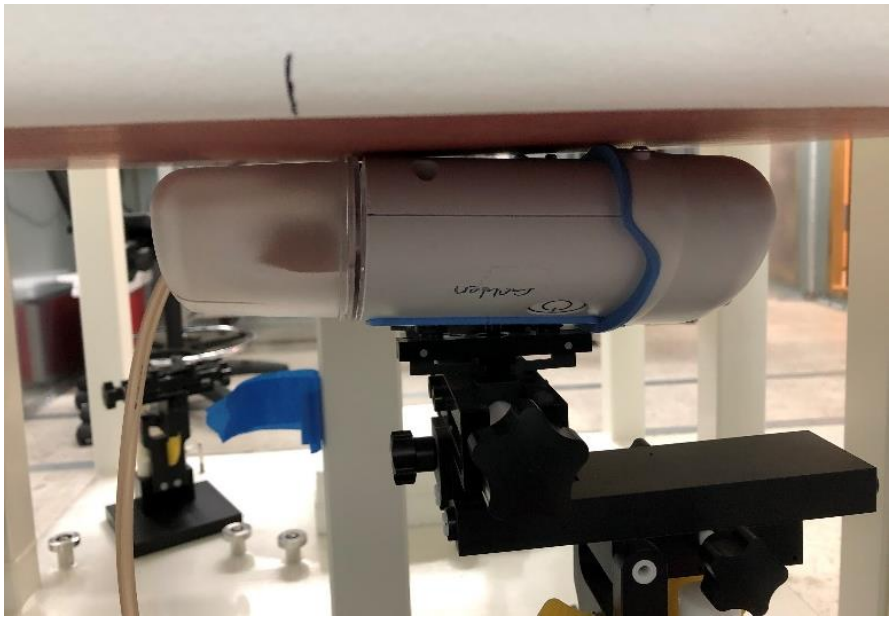
Back of carry case (showing optional belt loop strap

EUT Test Position



Top view of EUT against flat area of phantom with 0mm spacing

Header added to allow control of BLE module.



Side view of EUT against flat area of phantom with 0mm spacing

APPENDIX B - LTE DATA

SGS North America SAR Laboratory
Date/Time: 12/16/2020 11:06:36 AM

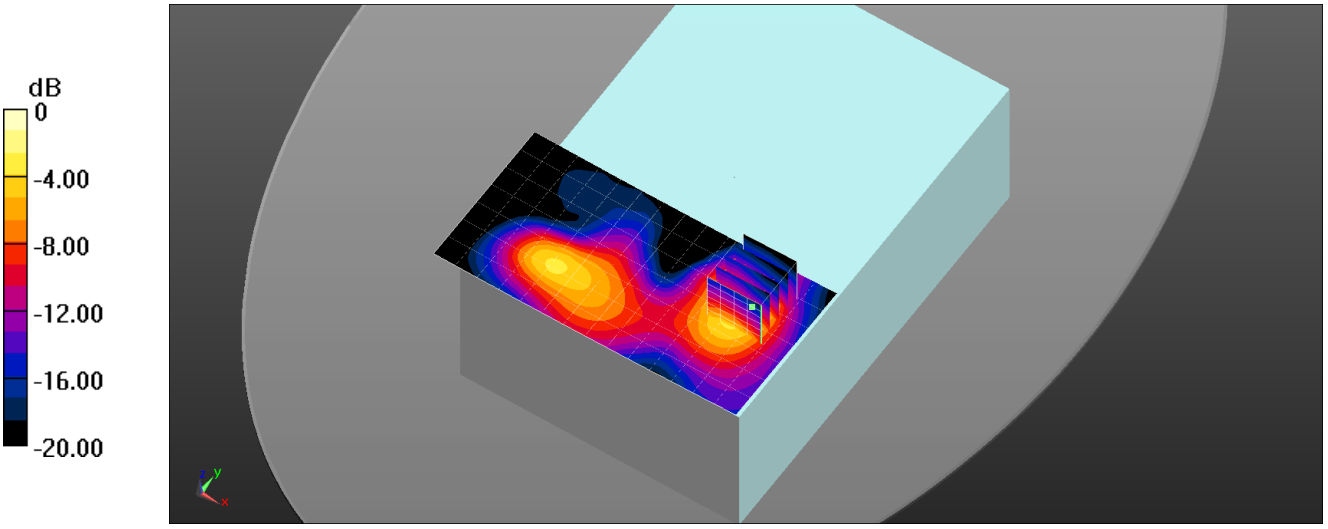
Plot # 1
DASY5 Configuration:

- Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.98, 4.98, 4.98) @ 1880 MHz; Calibrated: 2/19/2020
- Medium parameters used: f = 1880 MHz; σ = 1.4 S/m; ε_r = 39.892; ρ = 1000 kg/m^3,
  Medium parameters used: σ = 0 S/m, ε_r = 1; ρ = 1000 kg/m^3 ; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2-3GHz Body/Body Scan/Area Scan (15x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.166 W/kg

2-3GHz Body/Body Scan/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 6.042 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.548 W/kg
SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.084 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.343 W/kg



0 dB = 0.343 W/kg = -4.65 dBW/kg

SGS SAR Laboratory North America
Date/Time: 12/16/2020 6:30:06 PM

Plot # 2
DASY5 Configuration:

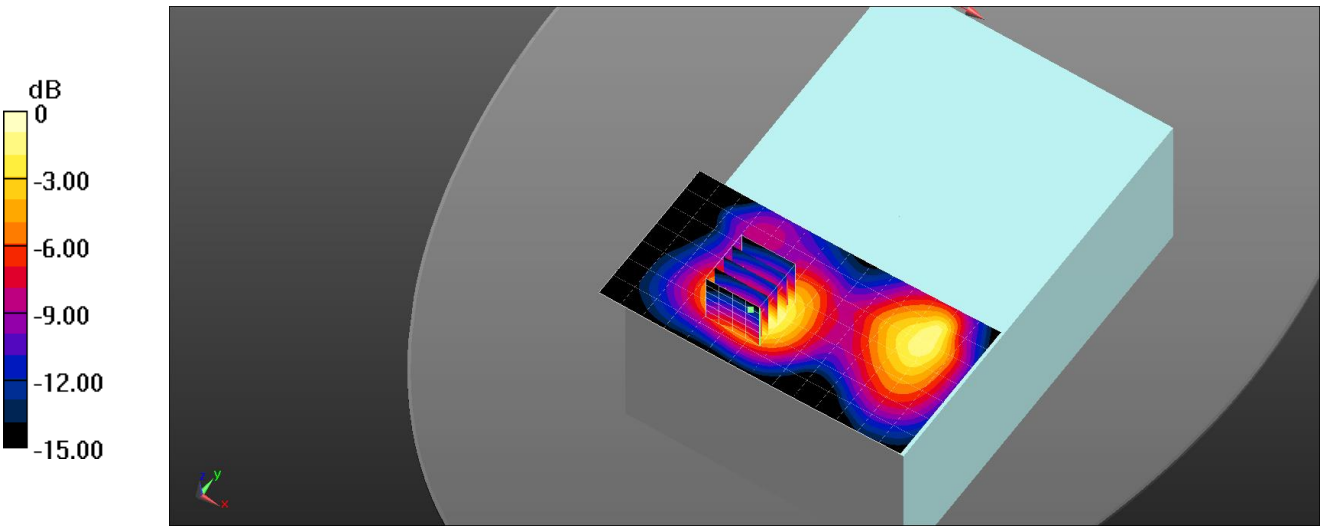
- Communication System: UID 10170 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 1732.5 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.07, 5.07, 5.07) @ 1732.5 MHz; Calibrated: 2/19/2020
- Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.31 S/m; ε_r = 40.074; ρ = 1000 kg/m^3 ,
  Medium parameters used: σ = 0 S/m, ε_r = 1; ρ = 1000 kg/m^3 ; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2-3GHz Body/Body Scan/Area Scan (15x8x1): Measurement grid: dx=12mm, dy=12mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.271 W/kg

2-3GHz Body/Body Scan/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.357 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.409 W/kg
SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.138 W/kg (SAR corrected for target medium)

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.303 W/kg



0 dB = 0.303 W/kg = -5.19 dBW/kg

SGS SAR Laboratory North America
Date/Time: 12/17/2020 1:39:31 PM

Plot # 3
DASY5 Configuration:

- Communication System: UID 10176 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM); Frequency: 707.5 MHz;
- Probe: ES3DV3 - SN3272; ConvF(6.18, 6.18, 6.18) @ 707.5 MHz; Calibrated: 2/19/2020
- Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.827 S/m; ε_r = 42.479; ρ = 1000 kg/m^3 ; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

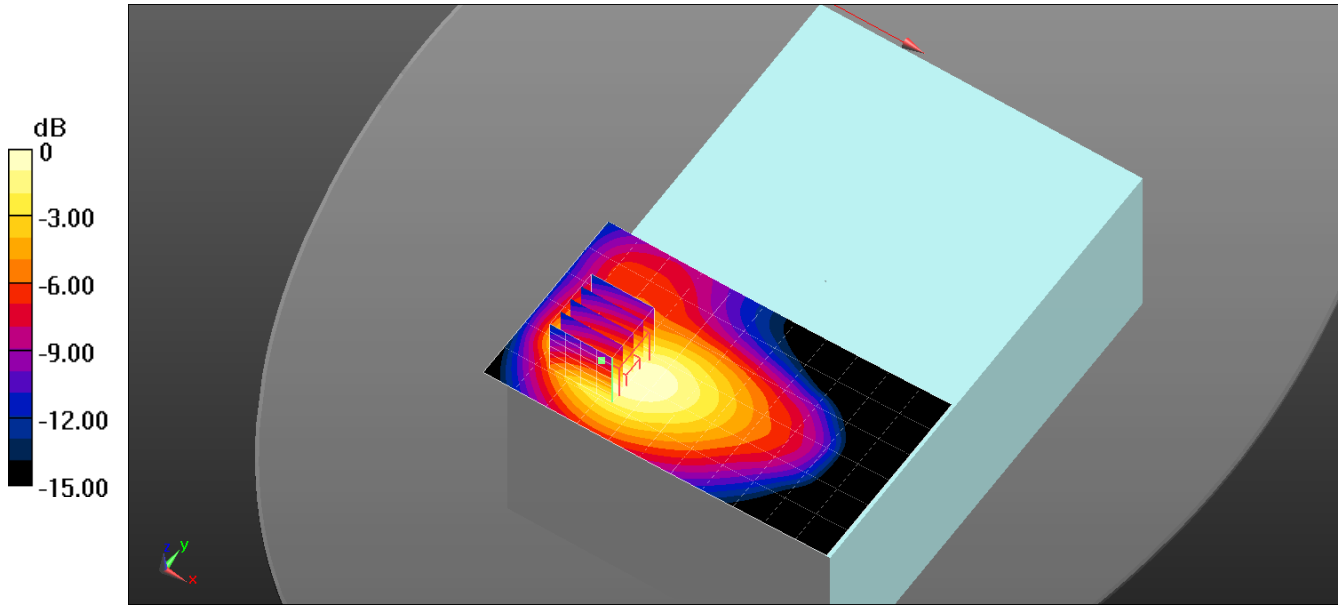
Below 2GHz Body/Body Scan/Area Scan (12x7x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.275 W/kg

Below 2GHz Body/Body Scan/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 10.74 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.422 W/kg
SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.159 W/kg (SAR corrected for target medium)

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.276 W/kg



0 dB = 0.276 W/kg = -5.59 dBW/kg

APPENDIX D – SYSTEM VERIFICATIONS

Test Laboratory: SGS SAR Laboratory North America
Date/Time: 12/16/2020 9:28:21 AM

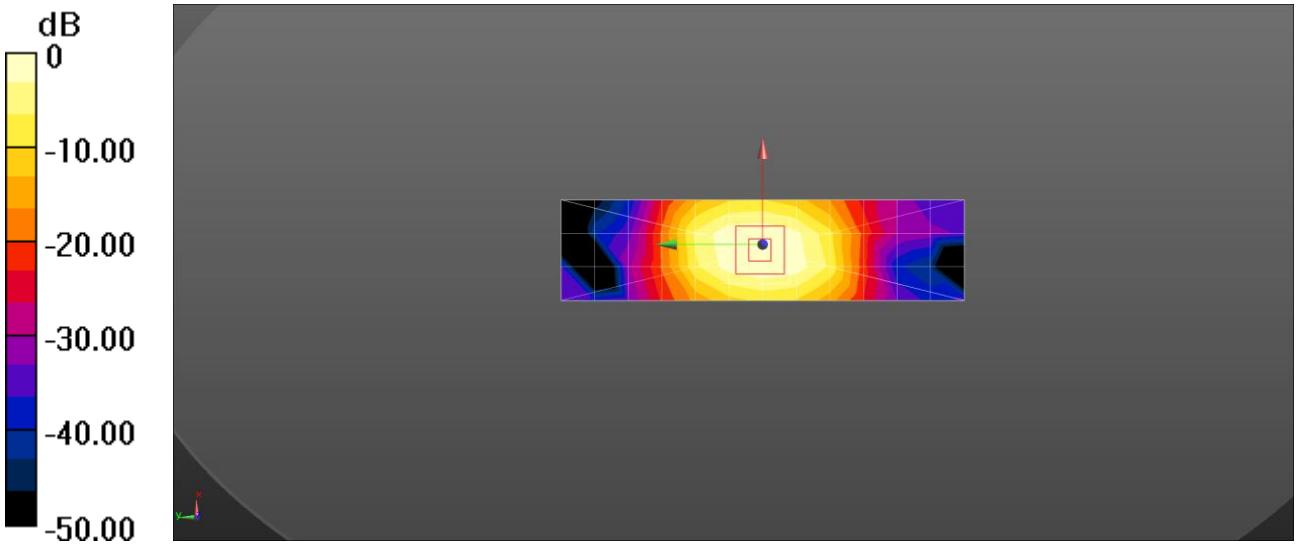
DUT: Dipole 1900 MHz D1900V2

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 1900 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.98, 4.98, 4.98) @ 1900 MHz; Calibrated: 2/19/2020
- Medium parameters used: f = 1900 MHz; σ = 1.412 S/m; ε_r = 39.868; ρ = 1000 kg/m^3 ; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation below 2GHz/System verification/Dipole Area Scan 2 (4x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.864 W/kg

System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.54 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.78 W/kg
SAR(1 g) = 0.972 W/kg; SAR(10 g) = 0.505 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 10.5 mm
Ratio of SAR at M2 to SAR at M1 = 55.6%
Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 0.864 W/kg = -0.63 dBW/kg

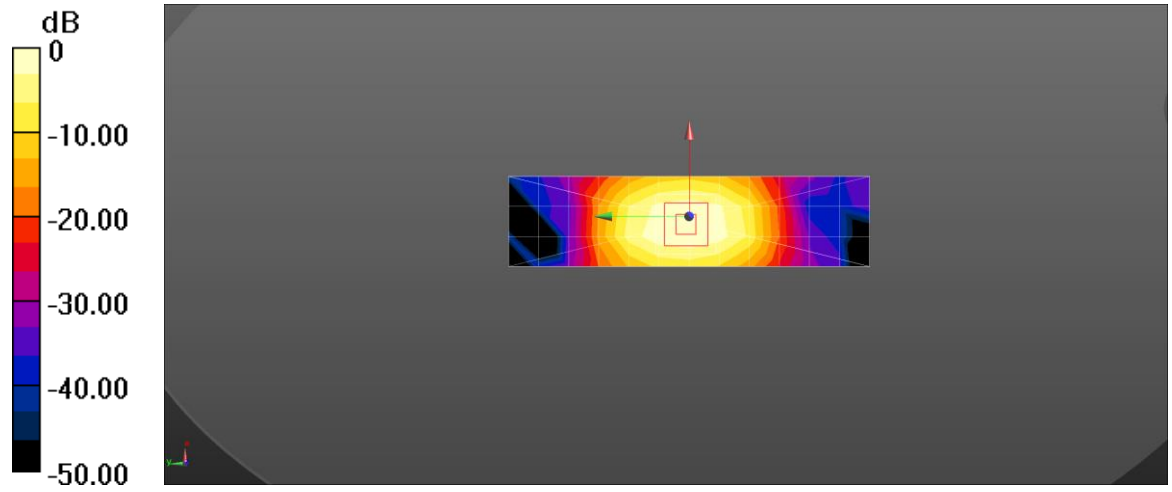
Test Laboratory: SGS SAR Laboratory North America
Date/Time: 12/16/2020 12:19:04 PM

DUT: Dipole 1750 MHz D1750V2
DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 1750 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.07, 5.07, 5.07) @ 1750 MHz; Calibrated: 2/19/2020
- Medium parameters used: f = 1750 MHz; σ = 1.32 S/m; ε_r = 40.05; ρ = 1000 kg/m^3 ; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation below 2GHz/System verification/Dipole Area Scan 2 (4x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.874 W/kg

System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.17 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.56 W/kg
SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.481 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 10.6 mm
Ratio of SAR at M2 to SAR at M1 = 57.3%
Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 0.874 W/kg = -0.58 dBW/kg

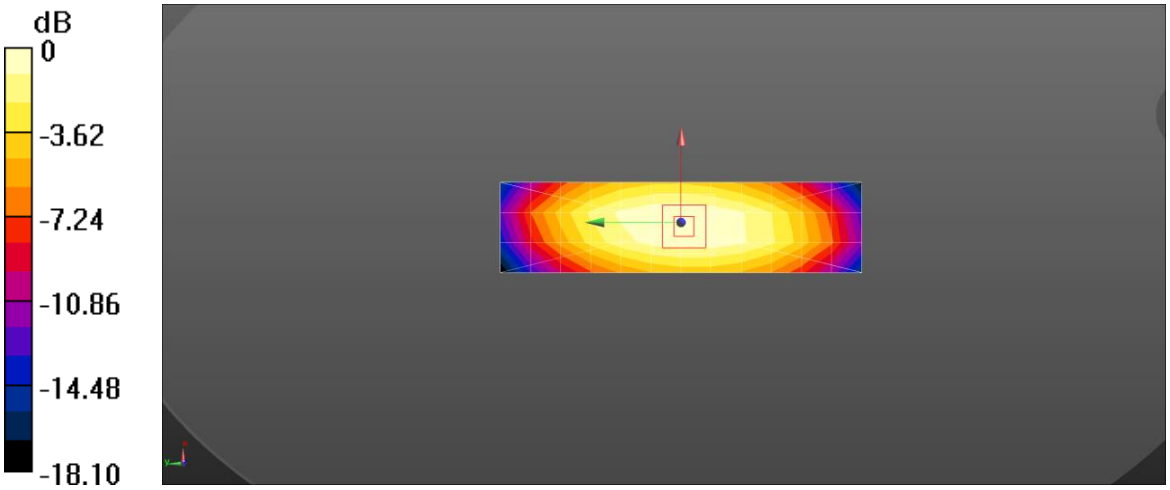
Test Laboratory: SGS SAR Laboratory North America
Date/Time: 12/17/2020 9:00:38 AM

DUT: Dipole 750 MHz D750V3
DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 750 MHz;
- Probe: ES3DV3 - SN3272; ConvF(6.18, 6.18, 6.18) @ 750 MHz; Calibrated: 2/19/2020
- Medium parameters used: f = 750 MHz; σ = 0.843 S/m; ε_r = 42.412; ρ = 1000 kg/m^3 ; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation below 2GHz/System verification/Dipole Area Scan 2 (4x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.419 W/kg

System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.32 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.593 W/kg
SAR(1 g) = 0.422 W/kg; SAR(10 g) = 0.277 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at M2 to SAR at M1 = 67.9%
Maximum value of SAR (measured) = 0.473 W/kg



0 dB = 0.419 W/kg = -3.77 dBW/kg

REVISON HISTORY

Revision Level	Description of changes	Revision Date
DRAFT	--	20 December 2020
0	Initial release	21 December 2020