# Annex D Plots of Maximum SAR Test Results

Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/30/2020

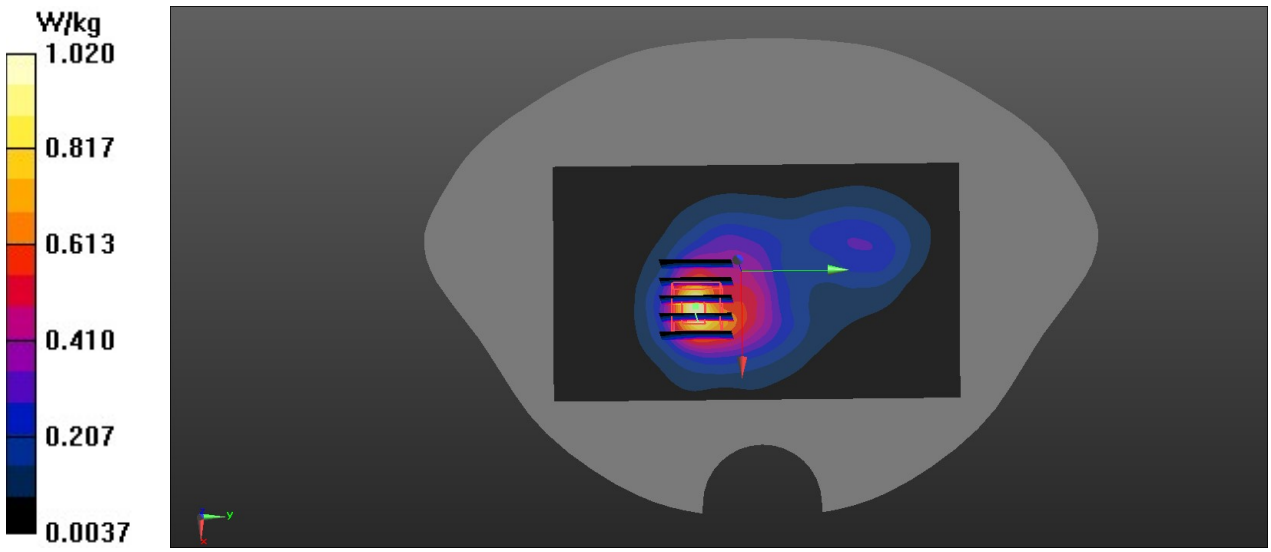
# WCDMA Band II_body_Back_CH9538_10mm

Communication System: UID 0, WCDMA 1900 (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: HSL1900-2100 Medium parameters used: f = 1908 MHz; $\sigma$ = 1.405 S/m; $\varepsilon_r$ = 39.85; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.5℃; Liquid Temperature：21.8℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(8.03, 8.03, 8.03) @ 1907.6 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH9538/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.02 W/kg

**body/CH9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.69 V/m; Power Drift =0.02 dB
Peak SAR (extrapolated) = 1.23 W/kg
**SAR(1 g) = 0.723 W/kg; SAR(10 g) = 0.391 W/kg**
Maximum value of SAR (measured) = 0.944 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/28/2020

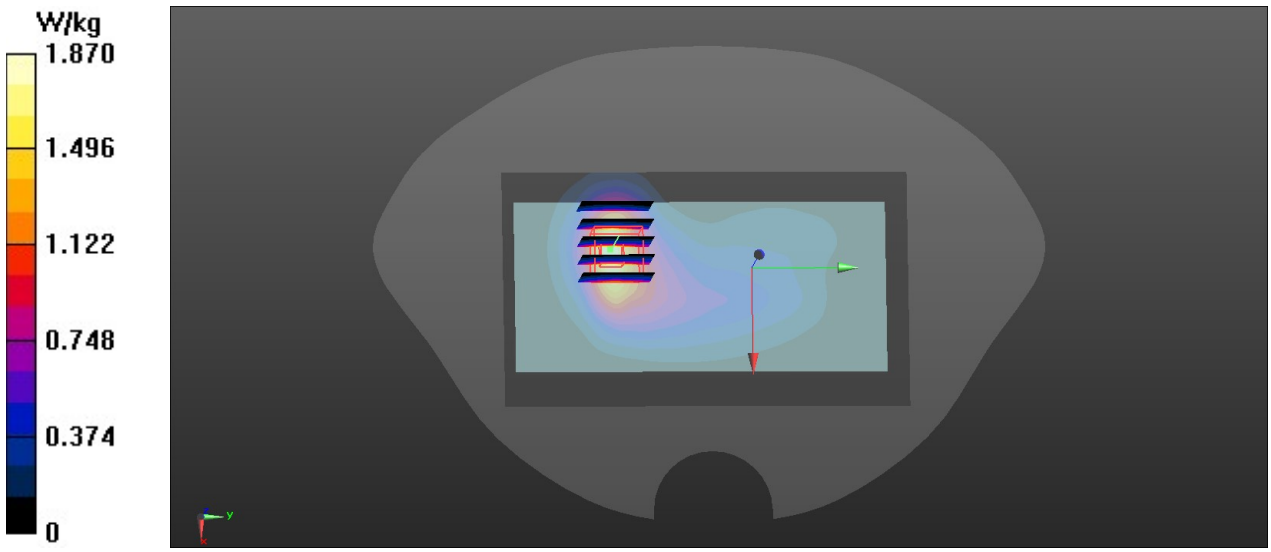
## WCDMA Band IV_body_Back_CH1513_10mm-4

Communication System: UID 0, WCDMA 1700 (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: HSL1700-1900 Medium parameters used: f = 1753 MHz; $\sigma$ = 1.338 S/m; $\varepsilon_r$ = 38.826; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.7 ℃; Liquid Temperature：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(8.38, 8.38, 8.38) @ 1752.6 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH1513/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.87 W/kg

**body/CH1513/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.02 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.28 W/kg
**SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.767 W/kg**
Maximum value of SAR (measured) = 1.84 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/31/2020

## WCDMA Band V_body_Back_CH4182_10mm

Communication System: UID 0, WCDMA 850 (0); Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: HSL800-1000 Medium parameters used (interpolated): f = 836.4 MHz; $\sigma$ = 0.92 S/m; $\varepsilon_r$ = 40.439; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：22.8 ℃; Liquid Temperature：22.3 ℃

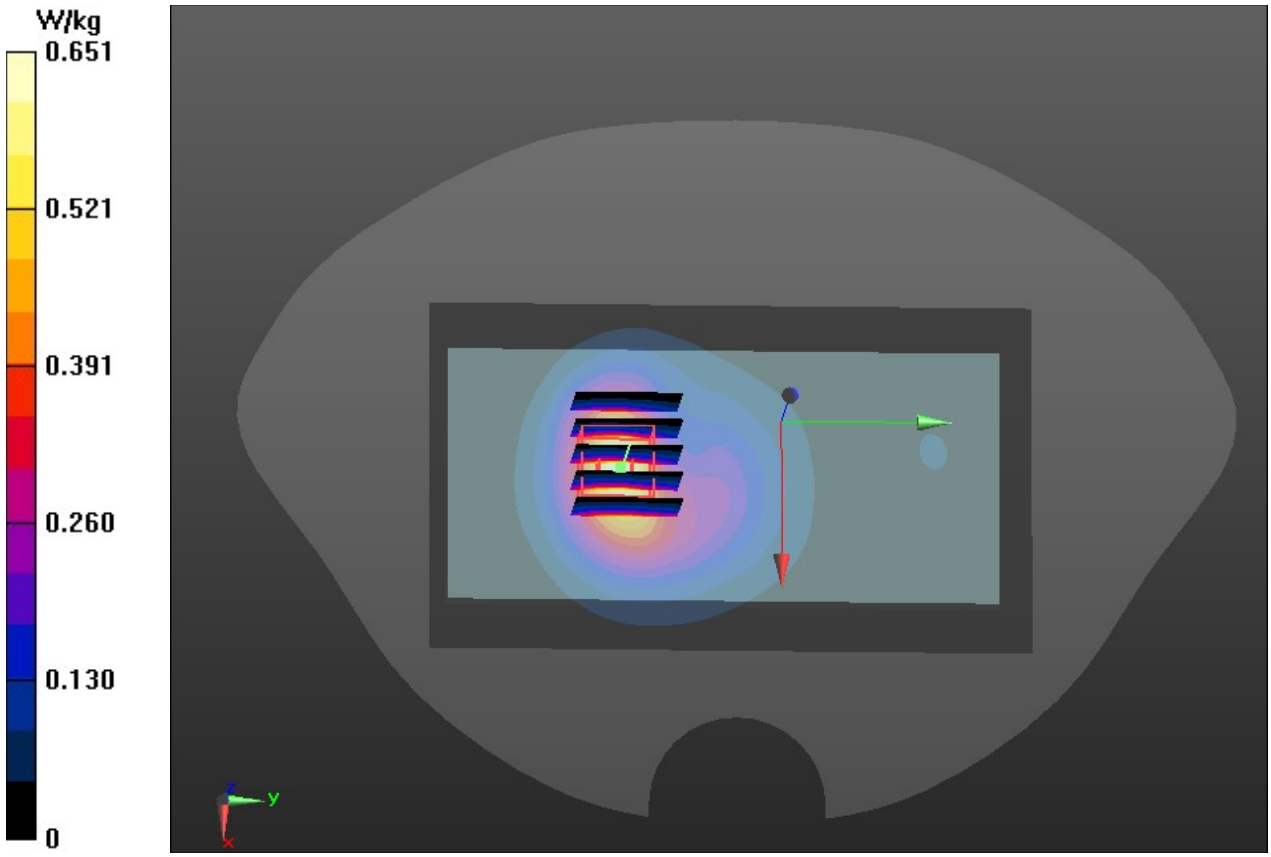
DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(9.69, 9.69, 9.69) @ 836.4 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH4182/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.651 W/kg

**body/CH4182/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.73 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.856 W/kg
**SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.281 W/kg**

Maximum value of SAR (measured) = 0.668 W/kg


W/kg
0.651
0.521
0.391
0.260
0.130
0
y

Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/28/2020

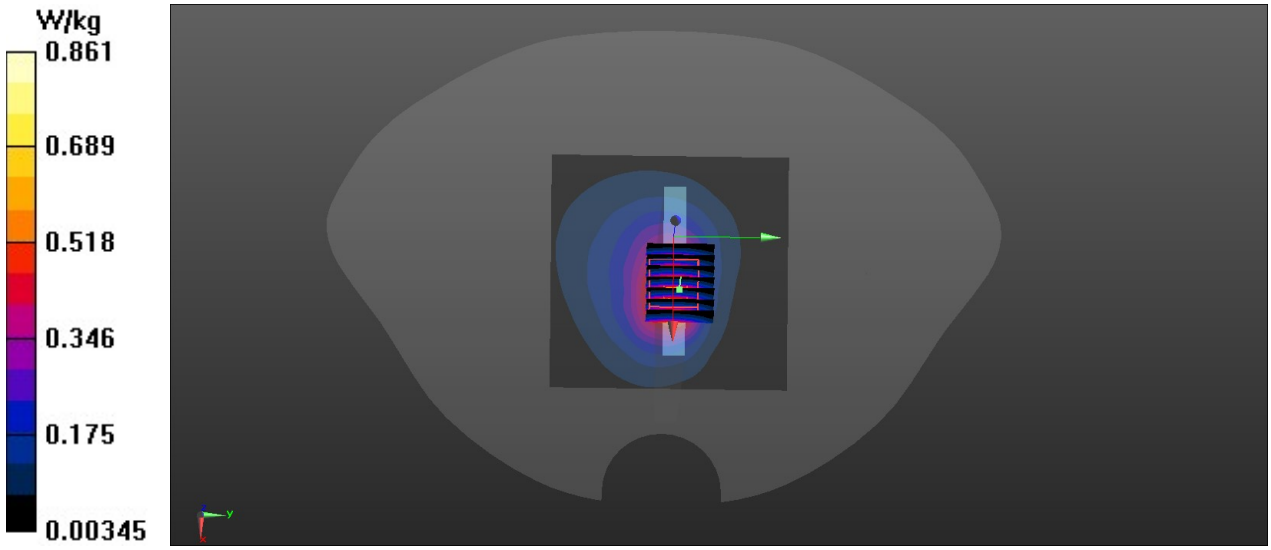
# LTE Band 2_1RB49_body_Top side_CH18900_10mm

Communication System: UID 0, LTE BAND 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL1700-1900 Medium parameters used: f = 1880 MHz; $\sigma$ = 1.423 S/m; $\varepsilon_r$ = 38.8; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：22.7℃; Liquid Temperature：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(8.03, 8.03, 8.03) @ 1880 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH18900/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.861 W/kg

**body/CH18900/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.69 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.10 W/kg
**SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.341 W/kg**
Maximum value of SAR (measured) = 0.864 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/28/2020

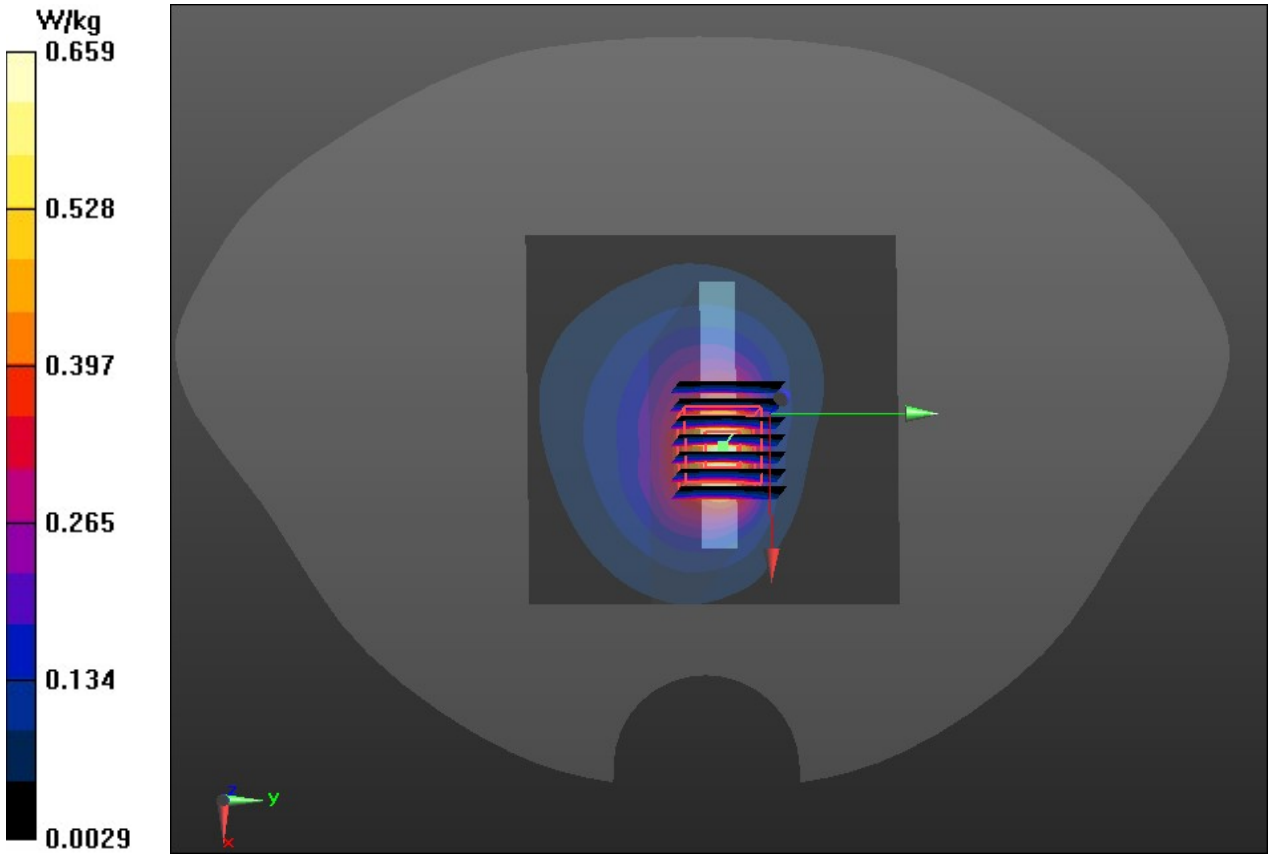
# LTE Band 2_50RB0_body_Top side_CH19100_10mm

Communication System: UID 0, LTE BAND 2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1700-1900 Medium parameters used: f = 1900 MHz; $\sigma$ = 1.441 S/m; $\varepsilon_r$ = 38.77; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.7 ℃; Liquid Temperature：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(8.03, 8.03, 8.03) @ 1900 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH19100/Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.659 W/kg

**body/CH19100/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.49 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.856 W/kg
**SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.264 W/kg**
Maximum value of SAR (measured) = 0.682 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/28/2020

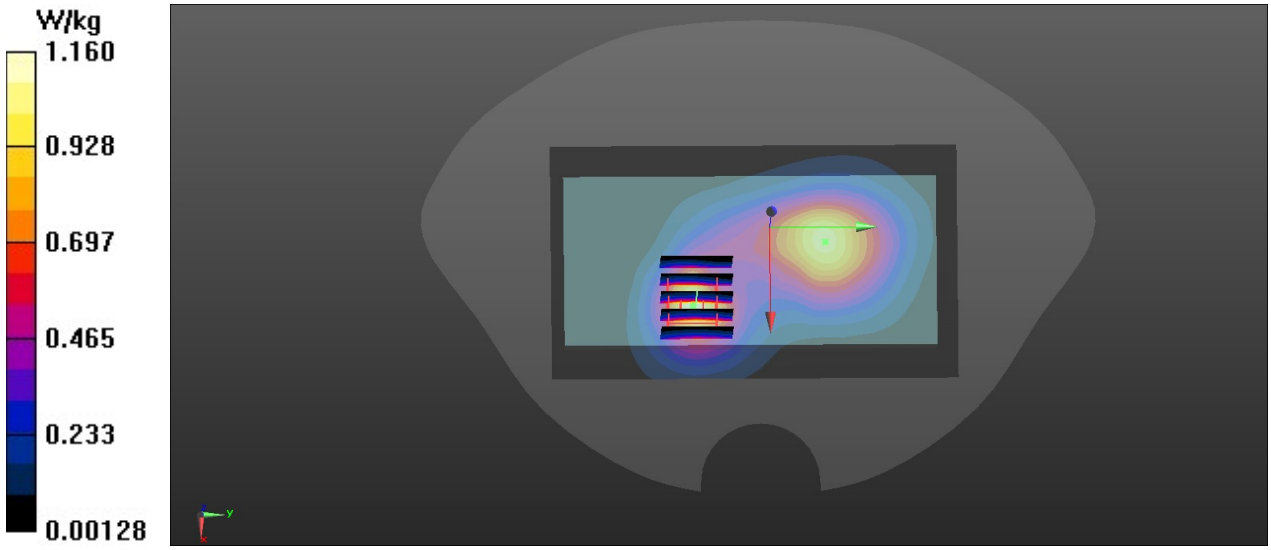
## LTE Band 4_1RB49_body_Back_CH20300_10mm

Communication System: UID 0, LET BAND 4 (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: HSL1700-1900 Medium parameters used: f = 1745 MHz; $\sigma$ = 1.339 S/m; $\varepsilon_r$ = 38.81; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.7 ℃; Liquid Temperature：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(8.38, 8.38, 8.38) @ 1745 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH20300/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.16 W/kg

**body/CH20300/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.77 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.32 W/kg
**SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.455 W/kg**
Maximum value of SAR (measured) = 1.07 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/28/2020

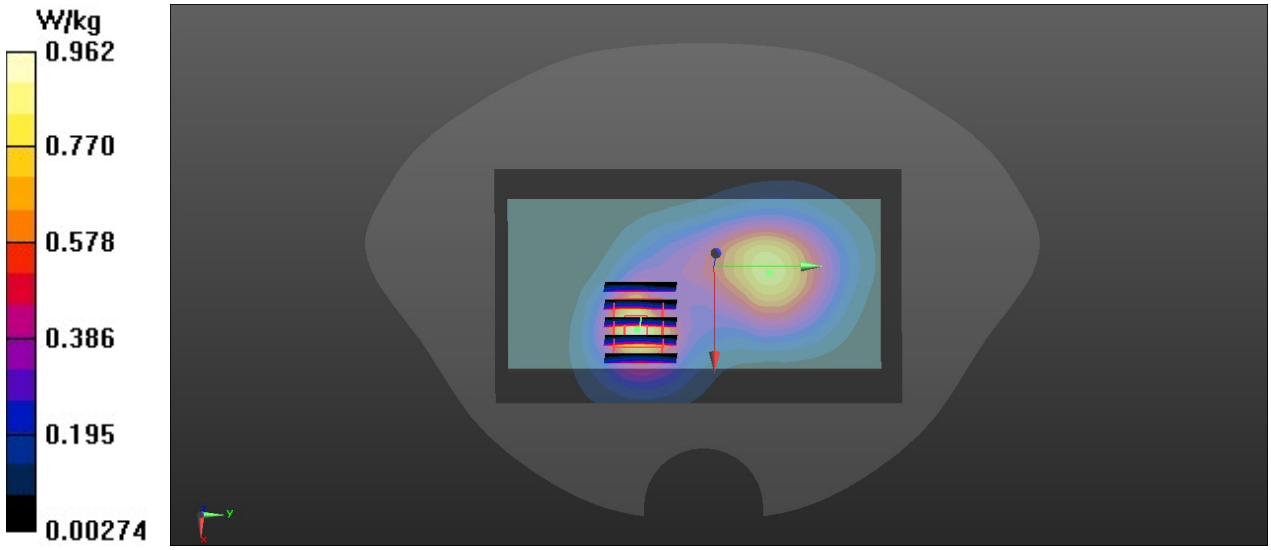
## LTE Band 4_50RB0_body_back_CH20300_10mm

Communication System: UID 0, LET BAND 4 (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: HSL1700-1900 Medium parameters used: f = 1745 MHz; $\sigma$ = 1.339 S/m; $\varepsilon_r$ = 38.81; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.7 ℃; Liquid Temperature：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(8.38, 8.38, 8.38) @ 1745 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH20300/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.962 W/kg

**body/CH20300/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.97 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.11 W/kg
**SAR(1 g) = 0.684 W/kg; SAR(10 g) = 0.384 W/kg**
Maximum value of SAR (measured) = 0.906 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/31/2020

## LTE Band 5_1RB25_body_Back_CH20525 10mm

Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: HSL800-1000 Medium parameters used (interpolated): f = 836.5 MHz; $\sigma$ = 0.92 S/m; $\varepsilon_r$ = 40.436; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.8 ℃; Liquid Temperature：22.3 ℃

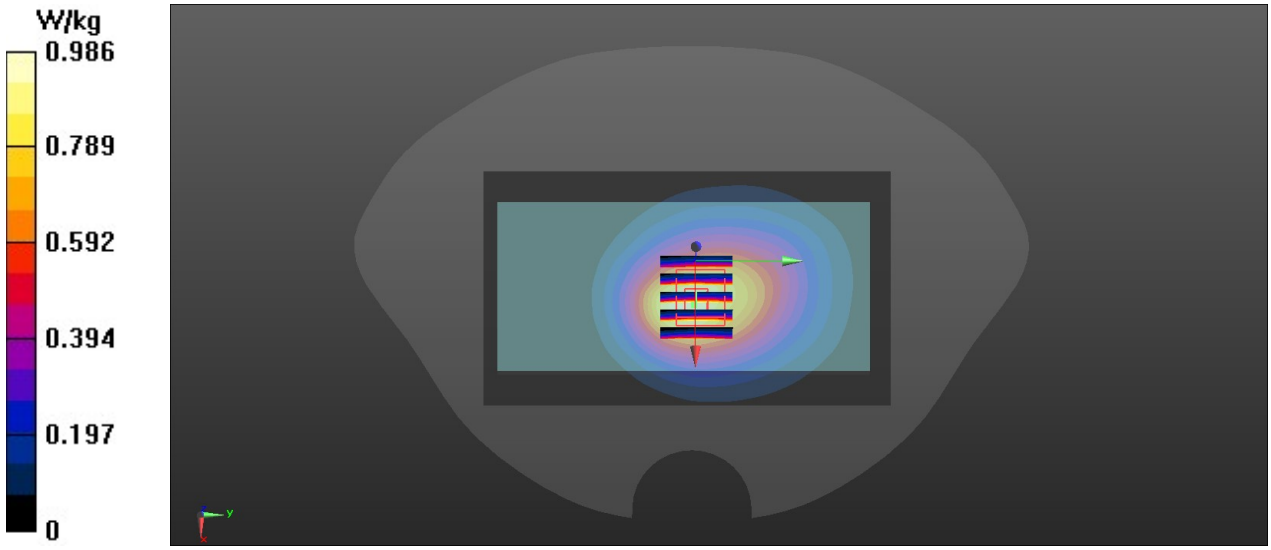
DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(9.69, 9.69, 9.69) @ 836.5 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH20525/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.986 W/kg

**body/CH20525/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.97 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.14 W/kg
**SAR(1 g) = 0.806 W/kg; SAR(10 g) = 0.549 W/kg**

Maximum value of SAR (measured) = 0.988 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/31/2020

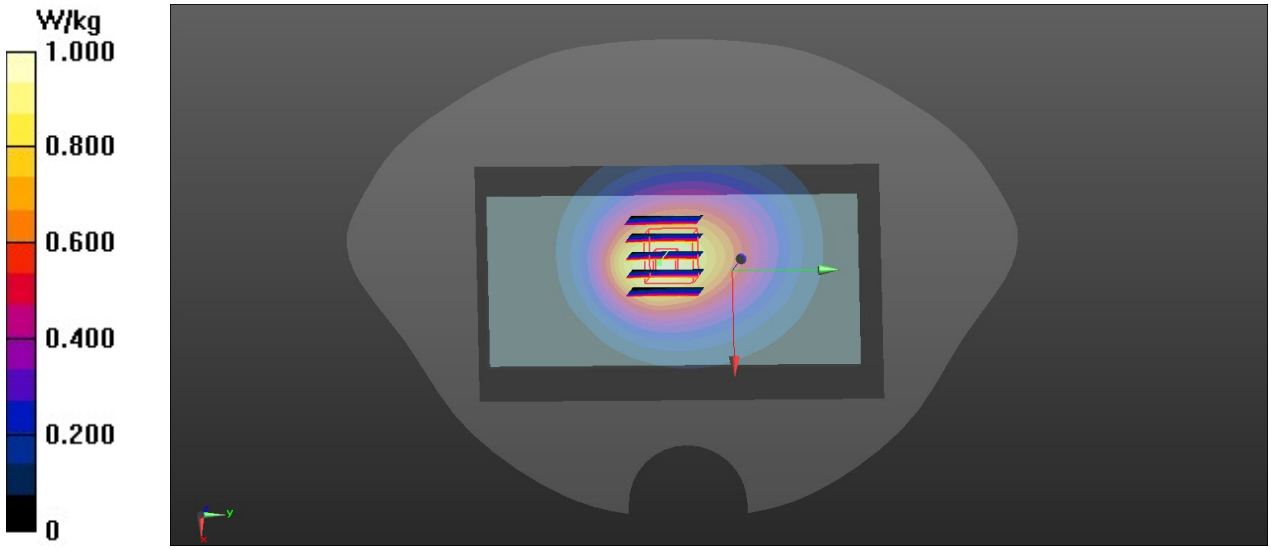
## LTE Band 5_25RB0_body_back_CH20600 10mm

Communication System: UID 0, LTE Band 5 (0); Frequency: 844 MHz;Duty Cycle: 1:1
Medium: HSL800-1000 Medium parameters used: f = 844 MHz; $\sigma$ = 0.925 S/m; $\varepsilon_r$ = 40.402; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.8 ℃; Liquid Temperature：22.3℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(9.69, 9.69, 9.69) @ 844 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH20600/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.00 W/kg

**body/CH20600/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.11 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.13 W/kg
**SAR(1 g) = 0.803 W/kg; SAR(10 g) = 0.562 W/kg**
Maximum value of SAR (measured) = 0.975 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 8/6/2020

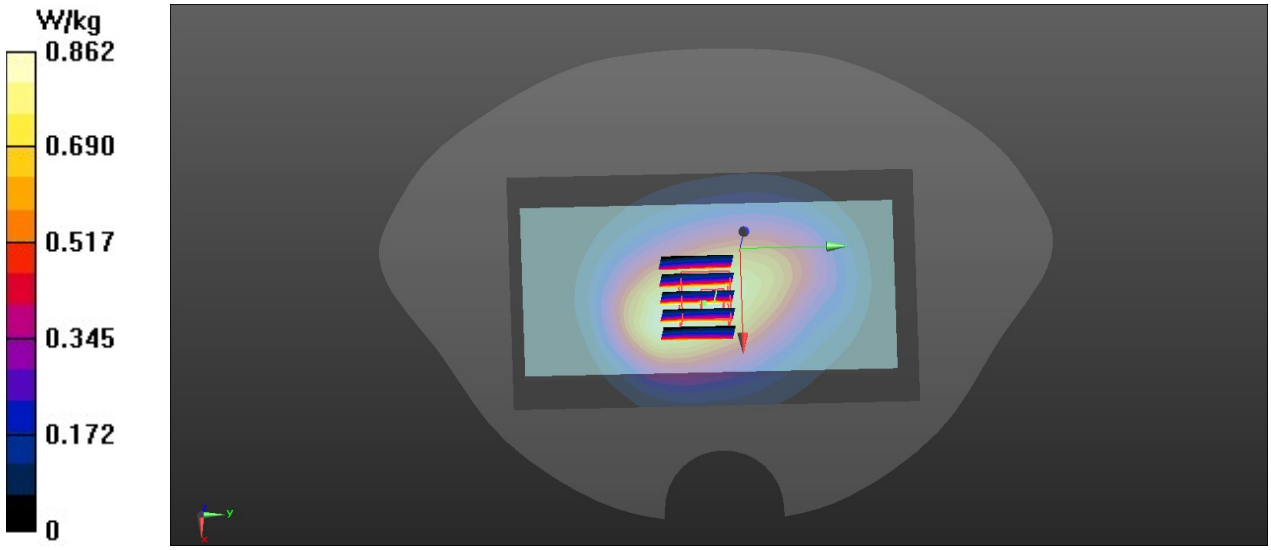
## LTE Band 12_1RB25_body_back_CH23130 10mm

Communication System: UID 0, LTE Band 12 (0); Frequency: 711 MHz;Duty Cycle: 1:1
Medium: HSL600-800 Medium parameters used: f = 711 MHz; $\sigma$ = 0.92 S/m; $\varepsilon_r$ = 42.217; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：22.9 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3975; ConvF(9.9, 9.9, 9.9) @ 711 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH23130/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.862 W/kg

**body/CH23130/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.79 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.04 W/kg
**SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.527 W/kg**
Maximum value of SAR (measured) = 0.912 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 8/6/2020

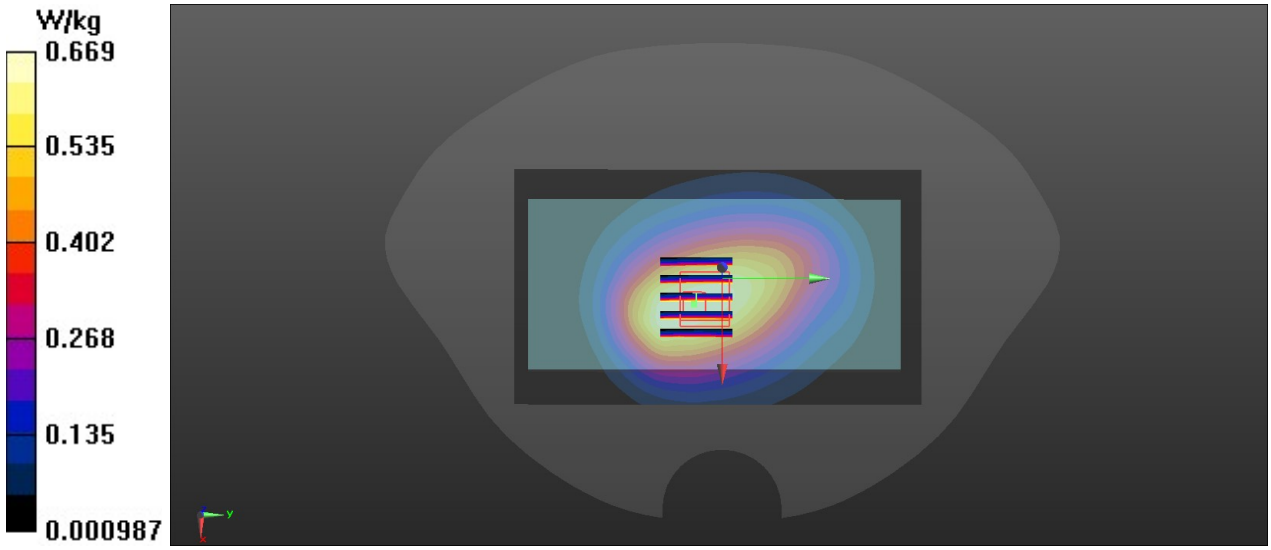
## LTE Band 12_25RB0_body_back_CH23130 10mm

Communication System: UID 0, LTE Band 12 (0); Frequency: 711 MHz;Duty Cycle: 1:1
Medium: HSL600-800 Medium parameters used: f = 711 MHz; $\sigma$ = 0.92 S/m; $\varepsilon_r$ = 42.217; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.9 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3975; ConvF(9.9, 9.9, 9.9) @ 711 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH23130/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.669 W/kg

**body/CH23130/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.31 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.774 W/kg
**SAR(1 g) = 0.560 W/kg; SAR(10 g) = 0.401 W/kg**
Maximum value of SAR (measured) = 0.671 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 8/6/2020

## LTE Band 13_1RB25_body_back_CH23230 10mm

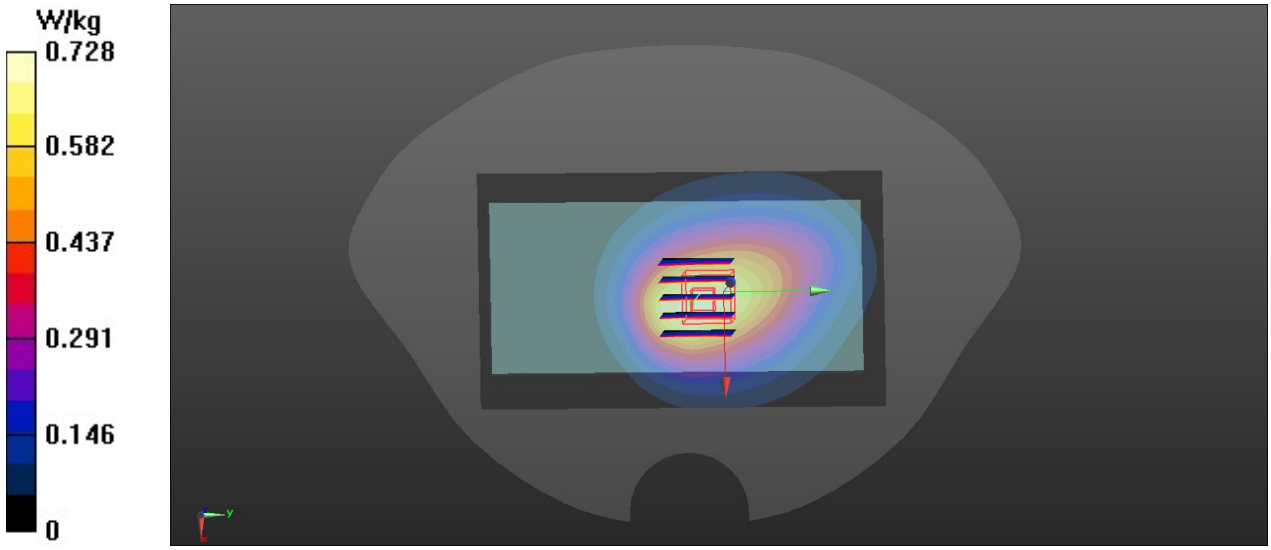
Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium: HSL600-800 Medium parameters used: f = 782 MHz; $\sigma$ = 0.938 S/m; $\varepsilon_r$ = 42.016; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.9 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3975; ConvF(9.9, 9.9, 9.9) @ 782 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH23230/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.728 W/kg

**body/CH23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.78 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.860 W/kg
**SAR(1 g) = 0.615 W/kg; SAR(10 g) = 0.437 W/kg**

Maximum value of SAR (measured) = 0.741 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 8/6/2020

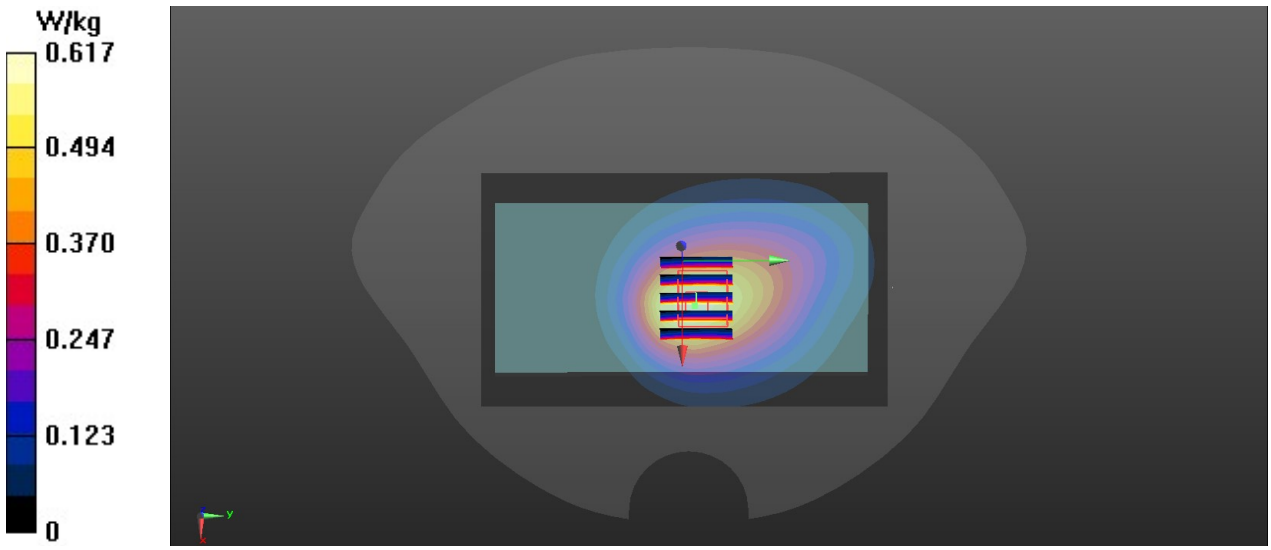
**LTE Band 13_25RB0_body_back_CH23230 10mm**

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium: HSL600-800 Medium parameters used: f = 782 MHz; $\sigma$ = 0.938 S/m; $\varepsilon_r$ = 42.016; $\rho$ = 1000 kg/$m^3$
Ambient Temperature：22.9 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3975; ConvF(9.9, 9.9, 9.9) @ 782 MHz; Calibrated: 5/20/2020
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH23230/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.617 W/kg

**body/CH23230/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.16 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.695 W/kg
**SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.340 W/kg**
Maximum value of SAR (measured) = 0.596 W/kg



Test Laboratory: SAR Lab. of Kehu-Morlab Test Laboratory Date: 7/29/2020

## LTE Band 25_1RB49_body_back_CH26365_10mm

Communication System: UID 0, LTE Band 25 (0); Frequency: 1882.5 MHz;Duty Cycle: 1:1
Medium: HSL1700-1900 Medium parameters used (interpolated): f = 1882.5 MHz; $\sigma$ = 1.426 S/m; $\varepsilon_r$ = 38.756; $\rho$ = 1000 kg/m$^3$
Ambient Temperature：22.4 ℃; Liquid Temperature：22.0 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7445; ConvF(8.03, 8.03, 8.03) @ 1882.5 MHz; Calibrated: 11/6/2019
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1516; Calibrated: 11/11/2019
- Phantom: SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1922
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

**body/CH26365/Area Scan (71x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.992 W/kg

**body/CH26365/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.80 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.28 W/kg
**SAR(1 g) = 0.739 W/kg; SAR(10 g) = 0.404 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg