

## 18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

## **18. References**

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.



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## ***Appendix A. Plots of System Performance Check***

The plots are shown as follows.

## System Check\_Head\_750MHz\_20180227

**DUT: D750V3 SN:1087**

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL\_750\_Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.893 \text{ S/m}$ ;  $\epsilon_r = 41.983$ ;  $\rho = 1000 \text{ kg/m}^3$

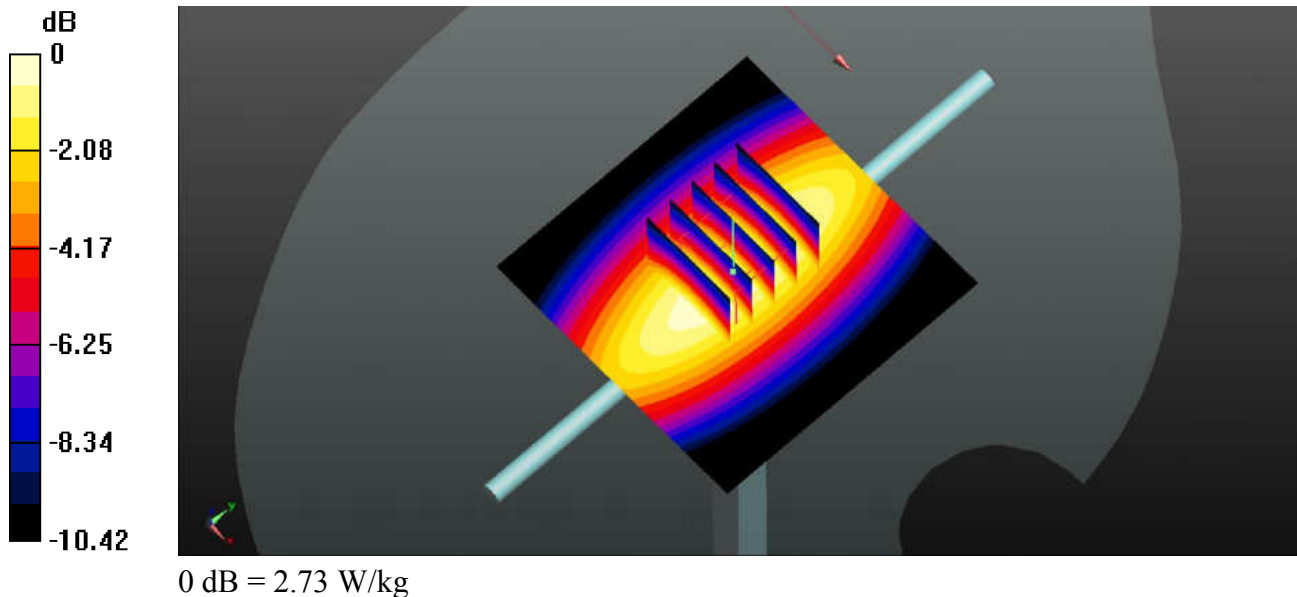
Ambient Temperature :  $23.5 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.6 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.68, 10.68, 10.68); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $2.76 \text{ W/kg}$

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $55.54 \text{ V/m}$ ; Power Drift =  $0.01 \text{ dB}$   
Peak SAR (extrapolated) =  $3.05 \text{ W/kg}$   
**SAR(1 g) =  $2.08 \text{ W/kg}$ ; SAR(10 g) =  $1.37 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.73 \text{ W/kg}$



## System Check\_Head\_835MHz\_20180217

**DUT: D835V2 SN:4d151**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL\_835\_Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.907$  S/m;  $\epsilon_r = 42.336$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.36 W/kg

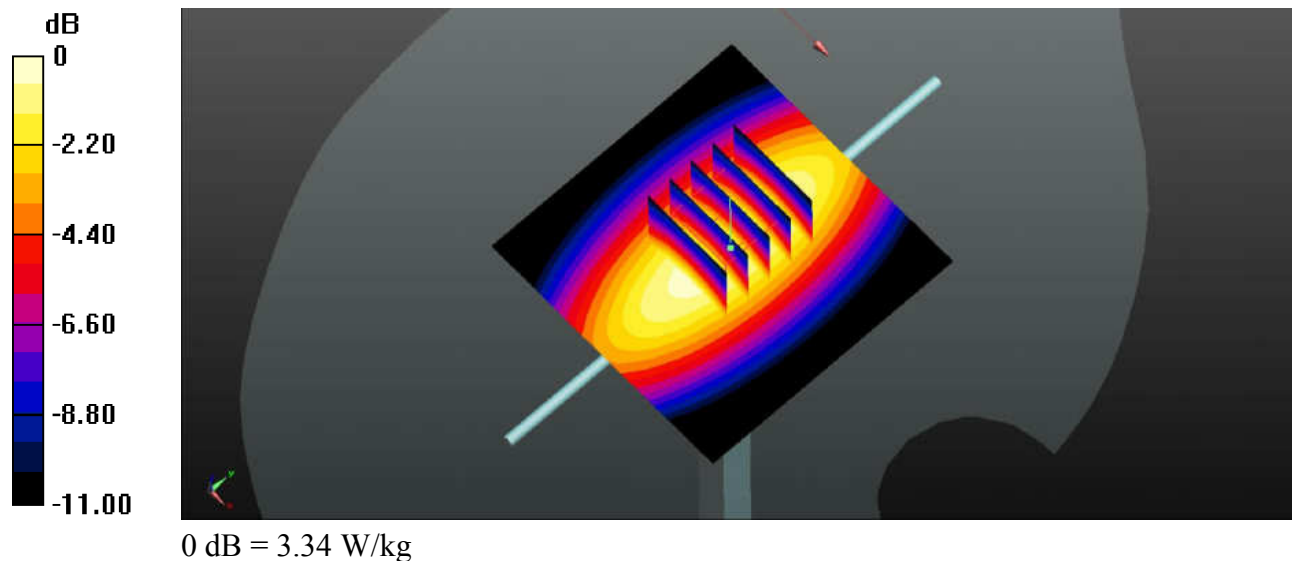
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.63 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.86 W/kg

**SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.58 W/kg**

Maximum value of SAR (measured) = 3.34 W/kg



## System Check\_Head\_1750MHz\_20180221

**DUT: D1750V2 SN:1090**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL\_1750\_Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.375$  S/m;  $\epsilon_r = 41.37$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.85, 8.85, 8.85); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.5 W/kg

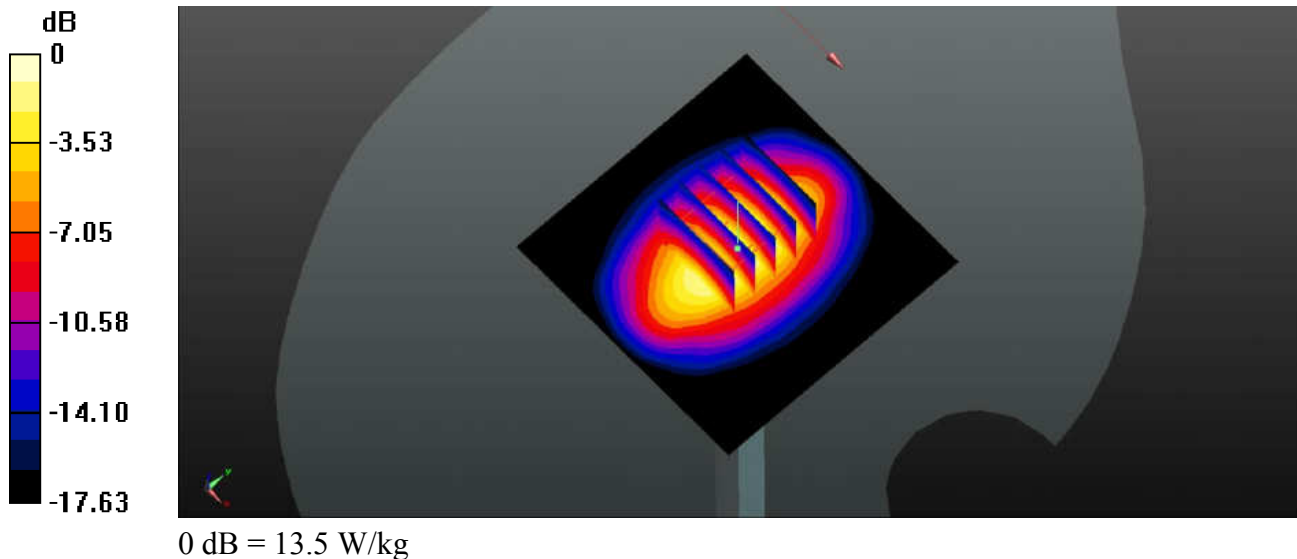
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.20 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 16.2 W/kg

**SAR(1 g) = 8.7 W/kg; SAR(10 g) = 4.58 W/kg**

Maximum value of SAR (measured) = 13.5 W/kg



## System Check\_Head\_1900MHz\_20180222

**DUT: D1900V2 SN:5d170**

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.464$  S/m;  $\epsilon_r = 39.144$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.41, 8.41, 8.41); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 16.1 W/kg

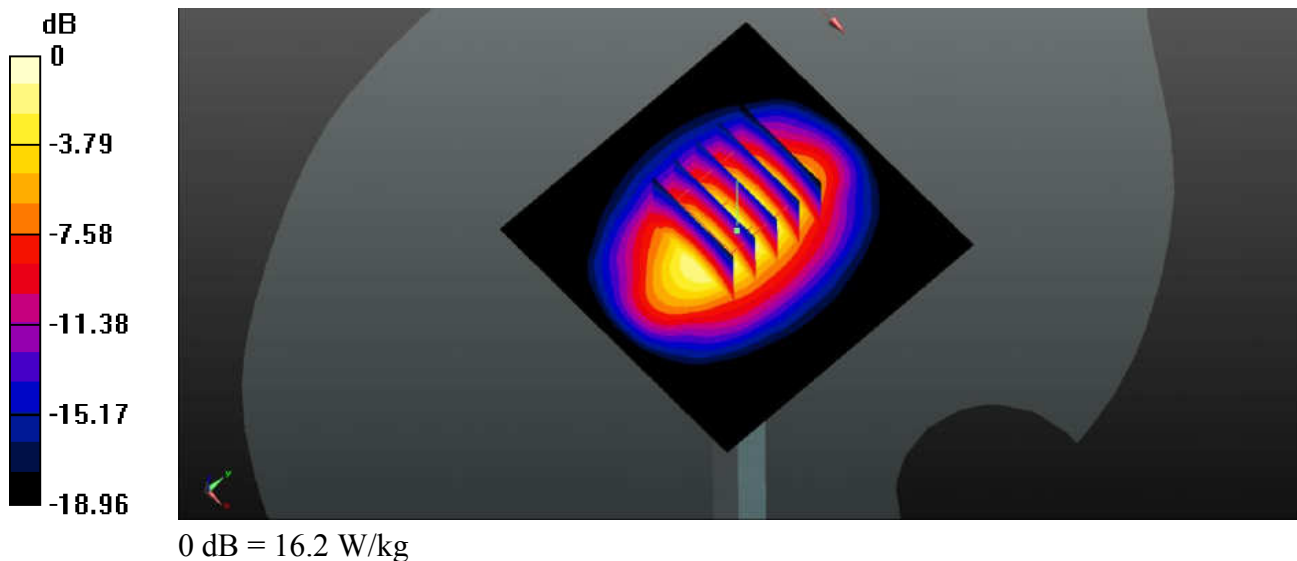
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 19.5 W/kg

**SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.27 W/kg**

Maximum value of SAR (measured) = 16.2 W/kg



## System Check\_Head\_2600MHz\_20180221

### DUT: D2600V2 SN:1112

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL\_2600\_Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.038$  S/m;  $\epsilon_r = 39.034$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(7.67, 7.67, 7.67); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 22.3 W/kg

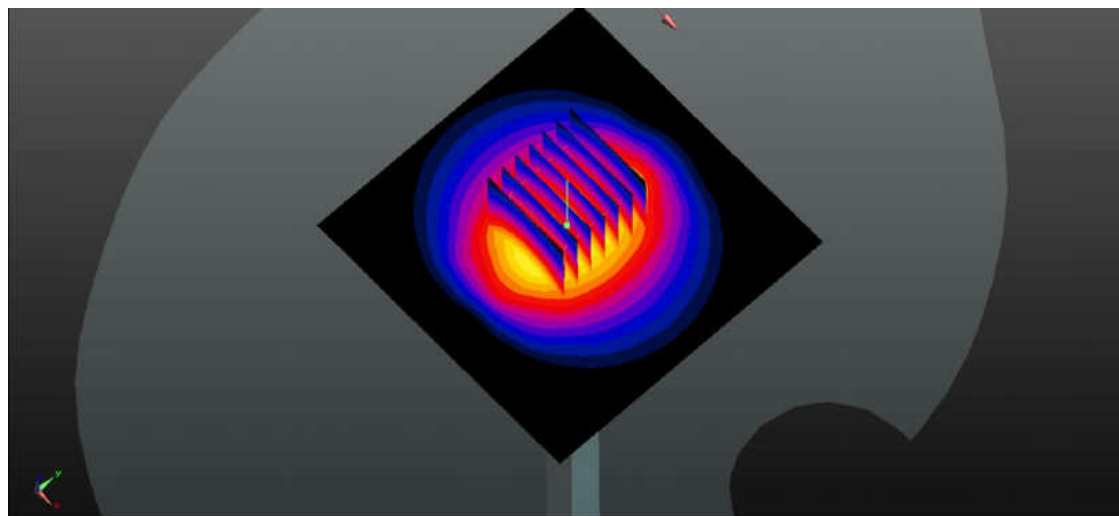
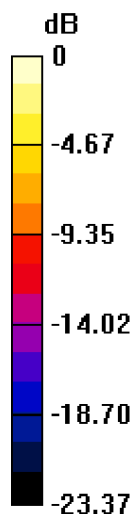
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.44 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 30.8 W/kg

**SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.27 W/kg**

Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg

## System Check\_Body\_750MHz\_20180227

**DUT: D750V3 SN:1087**

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: MSL\_750\_Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.959 \text{ S/m}$ ;  $\epsilon_r = 56.966$ ;  $\rho = 1000 \text{ kg/m}^3$

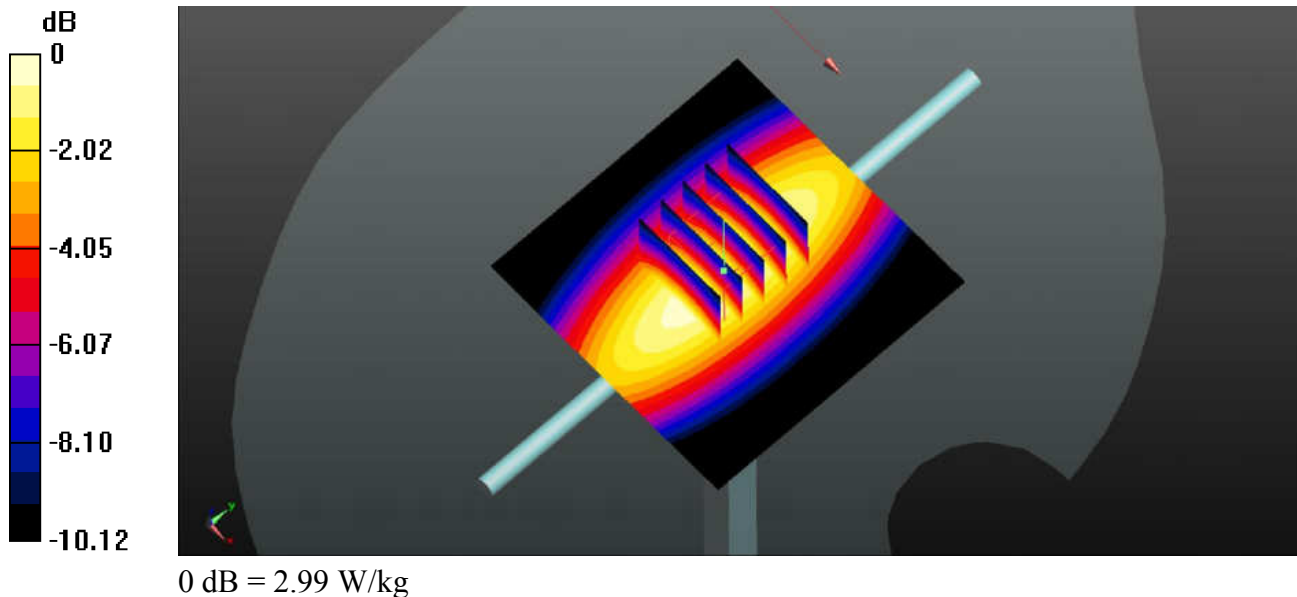
Ambient Temperature :  $23.6 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.65, 10.65, 10.65); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $2.97 \text{ W/kg}$

**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $49.53 \text{ V/m}$ ; Power Drift =  $0.04 \text{ dB}$   
Peak SAR (extrapolated) =  $3.39 \text{ W/kg}$   
**SAR(1 g) =  $2.25 \text{ W/kg}$ ; SAR(10 g) =  $1.5 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.99 \text{ W/kg}$



## System Check\_Body\_835MHz\_20180225

**DUT: D835V2 SN:4d151**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL\_835\_Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.996$  S/m;  $\epsilon_r = 55.226$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.76 W/kg

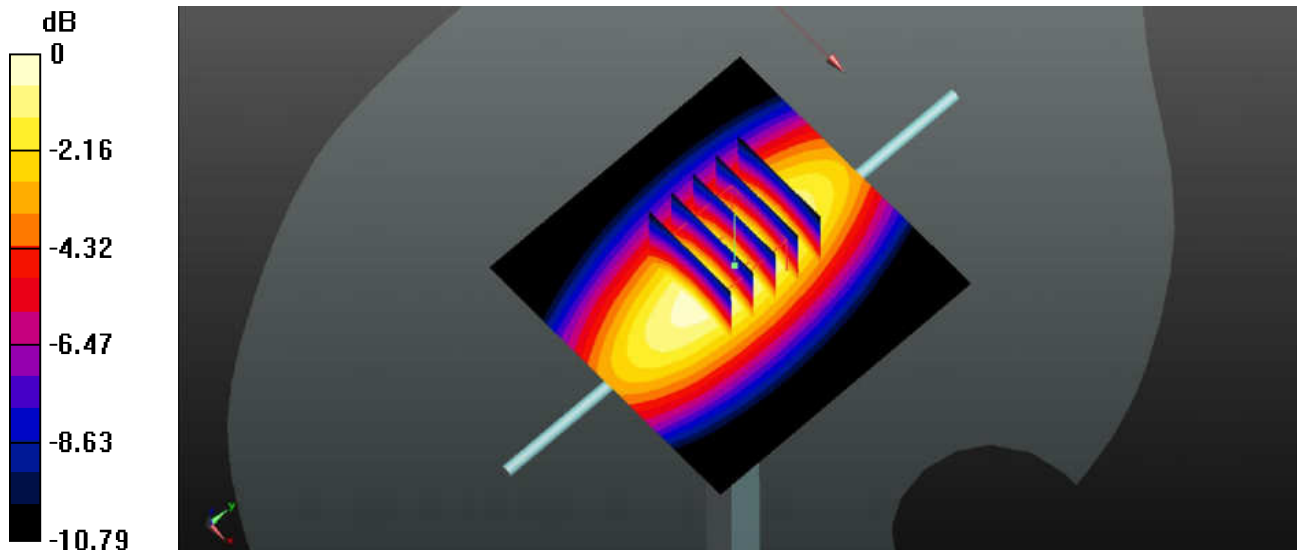
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.47 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.29 W/kg

**SAR(1 g) = 2.60 W/kg; SAR(10 g) = 1.74 W/kg**

Maximum value of SAR (measured) = 3.77 W/kg



0 dB = 3.77 W/kg

## System Check\_Body\_1750MHz\_20180224

### DUT: D1750V2 SN:1090

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: MSL\_1750\_Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.466$  S/m;  $\epsilon_r = 54.713$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.6 W/kg

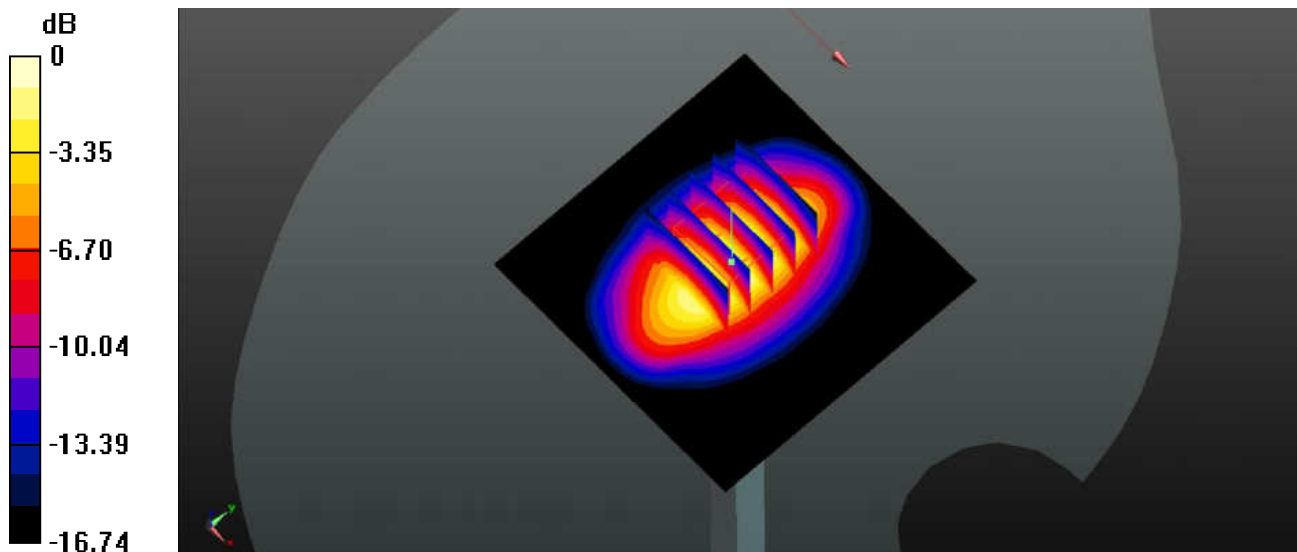
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 90.90 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 16.0 W/kg

**SAR(1 g) = 9.04 W/kg; SAR(10 g) = 4.84 W/kg**

Maximum value of SAR (measured) = 13.5 W/kg



## System Check\_Body\_1900MHz\_20180224

### DUT: D1900V2 SN:5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL\_1900\_Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.561$  S/m;  $\epsilon_r = 53.103$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.3 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 15.9 W/kg

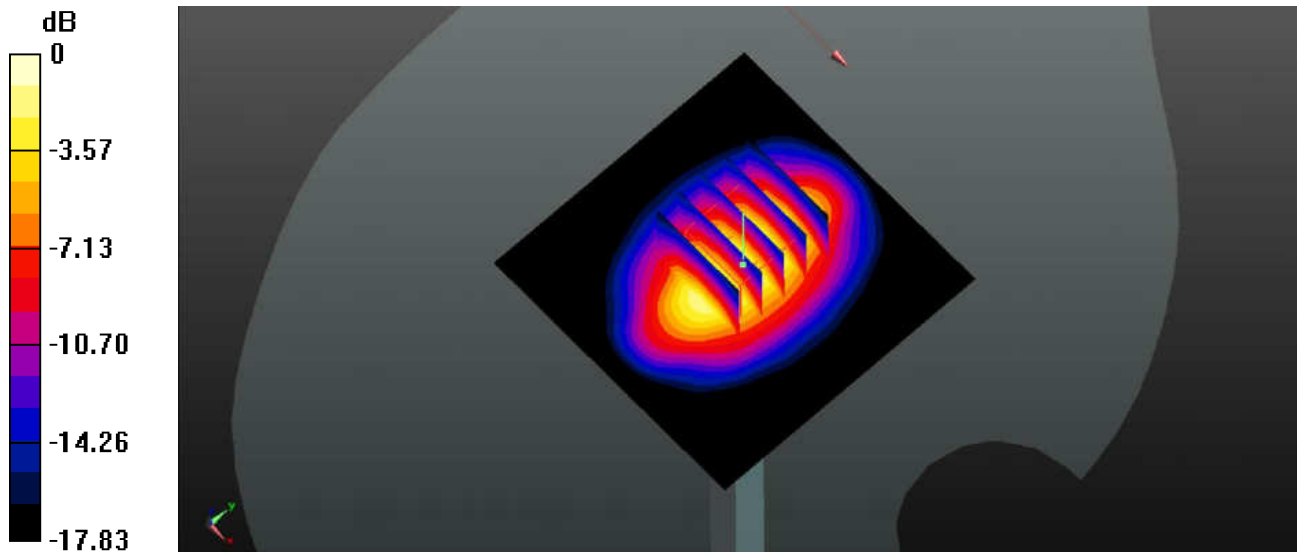
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 85.24 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 18.9 W/kg

**SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.39 W/kg**

Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg

## System Check\_Body\_2600MHz\_20180224

### DUT: D2600V2 SN:1112

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: MSL\_2600\_Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.148$  S/m;  $\epsilon_r = 53.076$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.6 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(7.71, 7.71, 7.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 22.5 W/kg

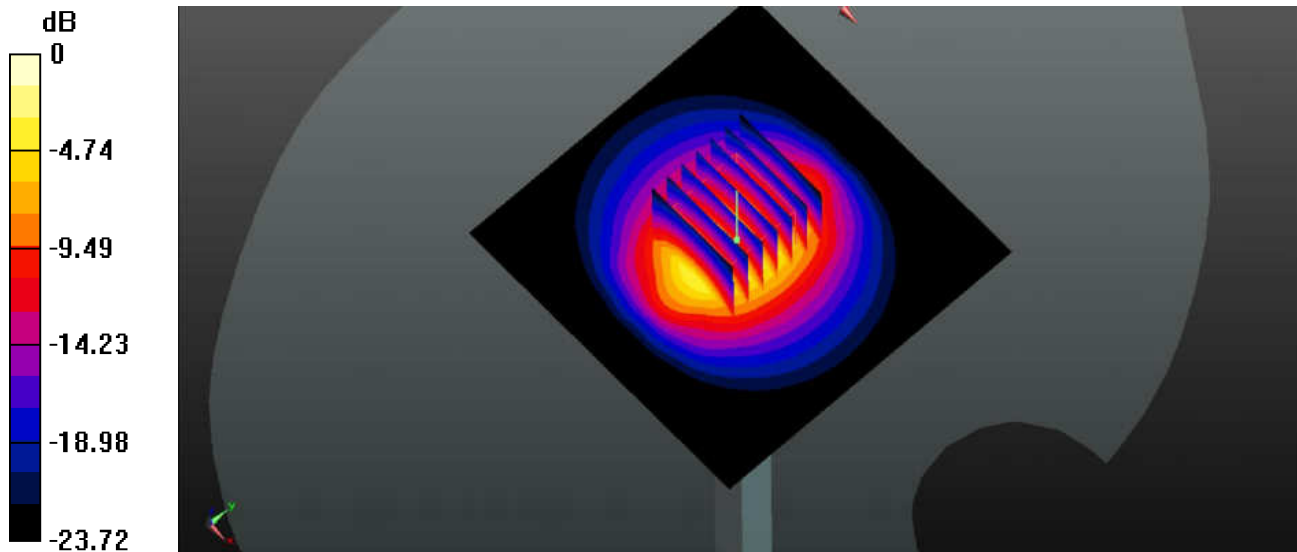
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.47 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 27.7 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.75 W/kg**

Maximum value of SAR (measured) = 22.4 W/kg





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## ***Appendix B. Plots of High SAR Measurement***

The plots are shown as follows.

# **#01\_WCDMA Band V\_RMC 12.2Kbps\_Right Cheek\_0mm\_Ch4132**

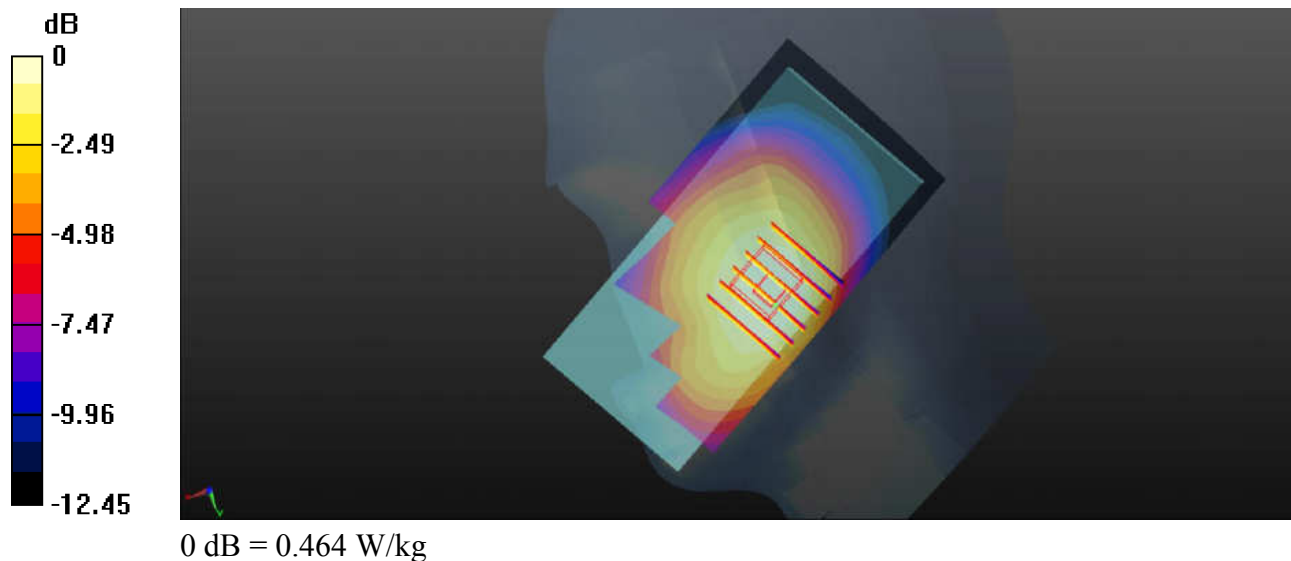
Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1  
 Medium: HSL\_835\_Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.899$  S/m;  $\epsilon_r = 42.446$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Ambient Temperature :  $23.5^\circ\text{C}$ ; Liquid Temperature :  $22.5^\circ\text{C}$

## DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch4132/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Maximum value of SAR (interpolated) =  $0.492 \text{ W/kg}$

**Ch4132/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value =  $5.628 \text{ V/m}$ ; Power Drift =  $0.09 \text{ dB}$   
 Peak SAR (extrapolated) =  $0.530 \text{ W/kg}$   
**SAR(1 g) =  $0.387 \text{ W/kg}$ ; SAR(10 g) =  $0.293 \text{ W/kg}$**   
 Maximum value of SAR (measured) =  $0.464 \text{ W/kg}$



**#02\_WCDMA Band IV\_RMC 12.2Kbps\_Right Cheek\_0mm\_Ch1312**

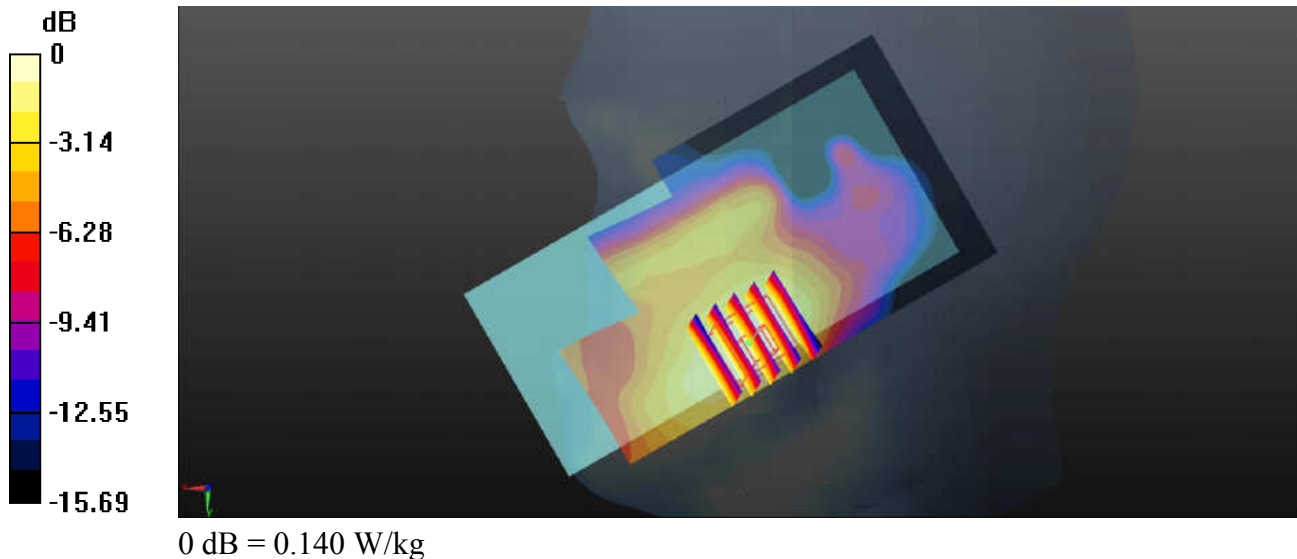
Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: HSL\_1750\_Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.338$  S/m;  $\epsilon_r = 41.526$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.85, 8.85, 8.85); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch1312/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.143 W/kg

**Ch1312/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 2.992 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 0.173 W/kg  
**SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.068 W/kg**  
Maximum value of SAR (measured) = 0.140 W/kg



### #03\_WCDMA Band II\_RMC 12.2Kbps\_Right Cheek\_0mm\_Ch9400

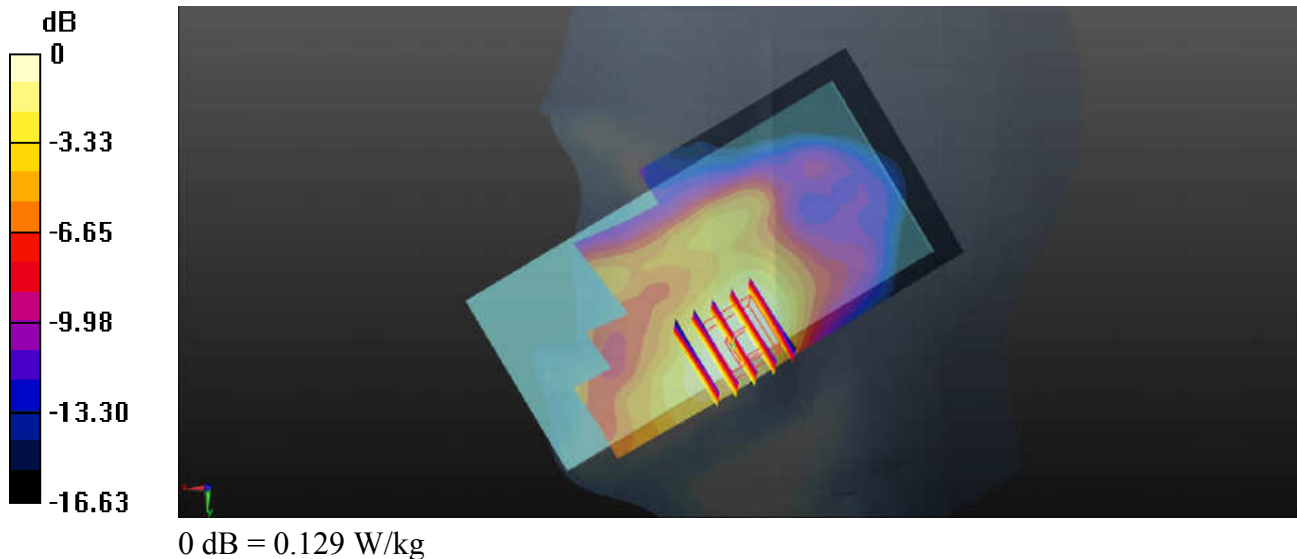
Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium: HSL\_1900\_Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.443$  S/m;  $\epsilon_r = 39.231$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Ambient Temperature :  $23.5^\circ\text{C}$ ; Liquid Temperature :  $22.3^\circ\text{C}$

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.41, 8.41, 8.41); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch9400/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Maximum value of SAR (interpolated) =  $0.131 \text{ W/kg}$

**Ch9400/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value =  $2.442 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$   
 Peak SAR (extrapolated) =  $0.157 \text{ W/kg}$   
**SAR(1 g) =  $0.095 \text{ W/kg}$ ; SAR(10 g) =  $0.059 \text{ W/kg}$**   
 Maximum value of SAR (measured) =  $0.129 \text{ W/kg}$



# **#04\_LTE Band 71\_20M\_QPSK\_1RB\_99offset\_Right Cheek\_0mm\_Ch133322**

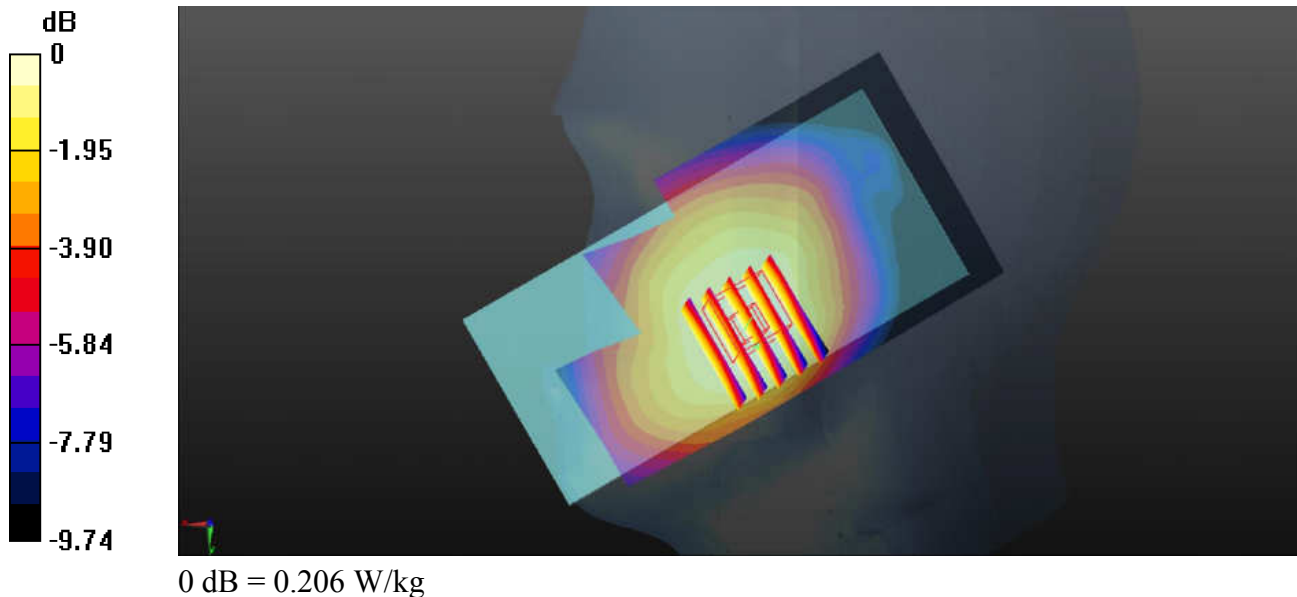
Communication System: UID 0, FDD-LTE (0); Frequency: 683 MHz; Duty Cycle: 1:1  
 Medium: HSL\_750\_Medium parameters used:  $f = 683 \text{ MHz}$ ;  $\sigma = 0.832 \text{ S/m}$ ;  $\epsilon_r = 42.921$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Ambient Temperature :  $23.5 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.6 \text{ }^\circ\text{C}$

## DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.68, 10.68, 10.68); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch133322/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Maximum value of SAR (interpolated) =  $0.206 \text{ W/kg}$

**Ch133322/Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value =  $4.507 \text{ V/m}$ ; Power Drift =  $0.08 \text{ dB}$   
 Peak SAR (extrapolated) =  $0.221 \text{ W/kg}$   
**SAR(1 g) =  $0.175 \text{ W/kg}$ ; SAR(10 g) =  $0.139 \text{ W/kg}$**   
 Maximum value of SAR (measured) =  $0.206 \text{ W/kg}$



# **#05\_LTE Band 5\_10M\_QPSK\_1RB\_49offset\_Right Cheek\_0mm\_Ch20525**

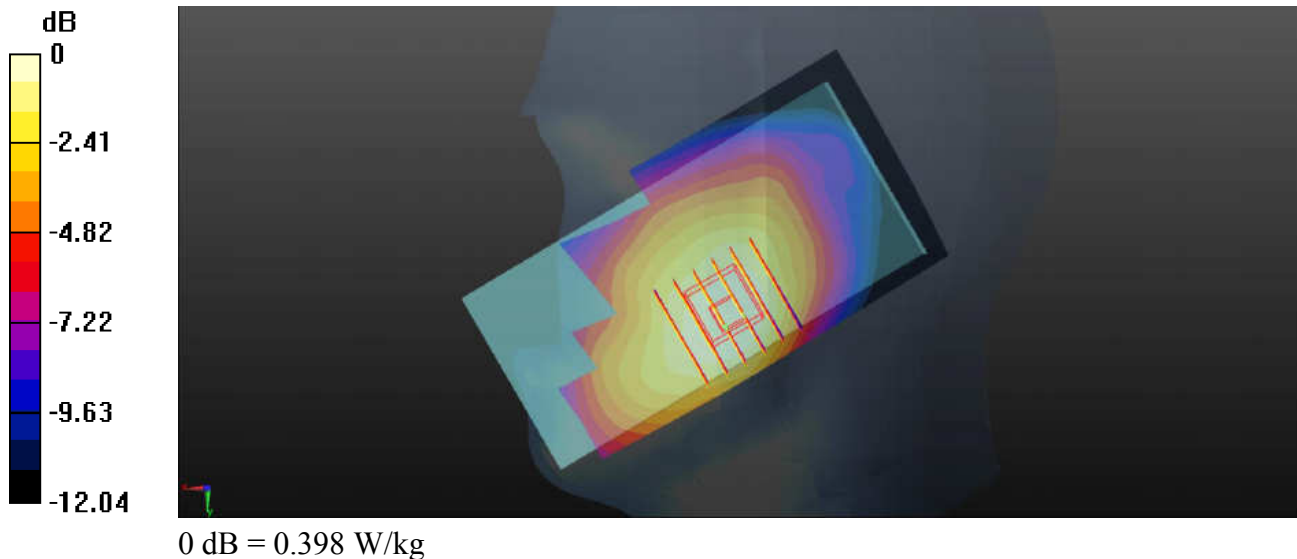
Communication System: UID 0, FDD-LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1  
 Medium: HSL\_835\_Medium parameters used:  $f = 836.5 \text{ MHz}$ ;  $\sigma = 0.908 \text{ S/m}$ ;  $\epsilon_r = 42.319$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
 Ambient Temperature :  $23.5 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.5 \text{ }^\circ\text{C}$

## DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch20525/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Maximum value of SAR (interpolated) =  $0.422 \text{ W/kg}$

**Ch20525/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value =  $5.885 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$   
 Peak SAR (extrapolated) =  $0.448 \text{ W/kg}$   
**SAR(1 g) =  $0.325 \text{ W/kg}$ ; SAR(10 g) =  $0.245 \text{ W/kg}$**   
 Maximum value of SAR (measured) =  $0.398 \text{ W/kg}$



**#06\_LTE Band 66\_20M\_QPSK\_1RB\_99offset\_Left Cheek\_0mm\_Ch132072**

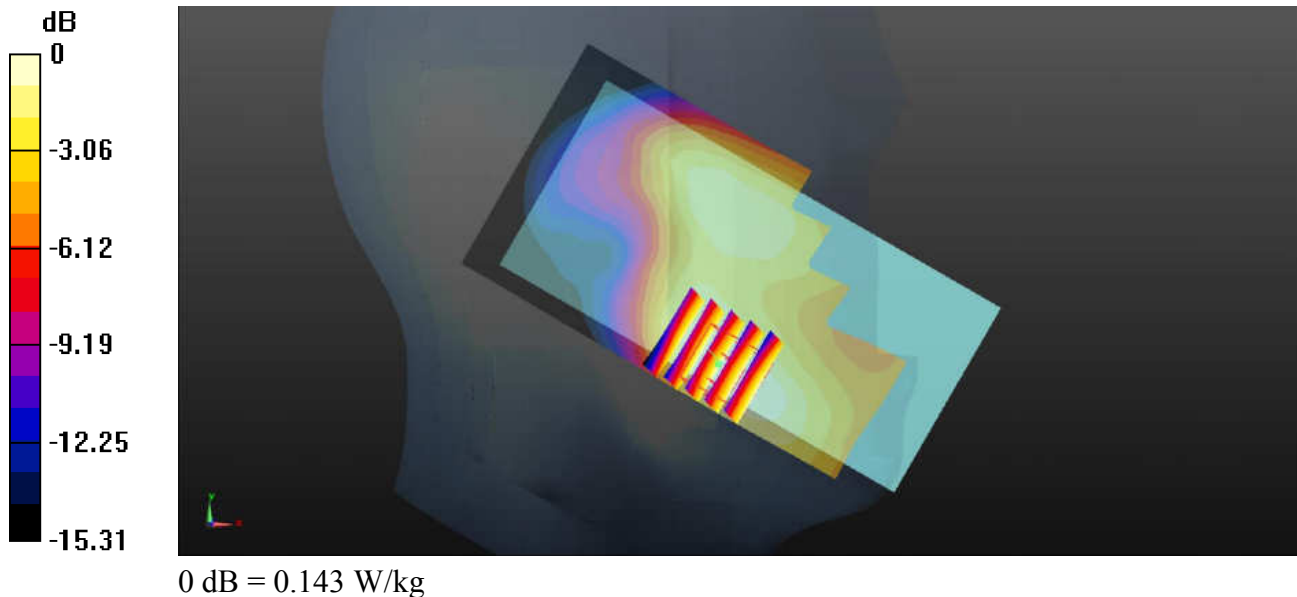
Communication System: UID 0, FDD-LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1  
Medium: HSL\_1750\_Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.345$  S/m;  $\epsilon_r = 41.492$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.85, 8.85, 8.85); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch132072/Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.150 W/kg

**Ch132072/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 2.898 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 0.168 W/kg  
**SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.072 W/kg**  
Maximum value of SAR (measured) = 0.143 W/kg



**#07\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_Left Cheek\_0mm\_Ch18900**

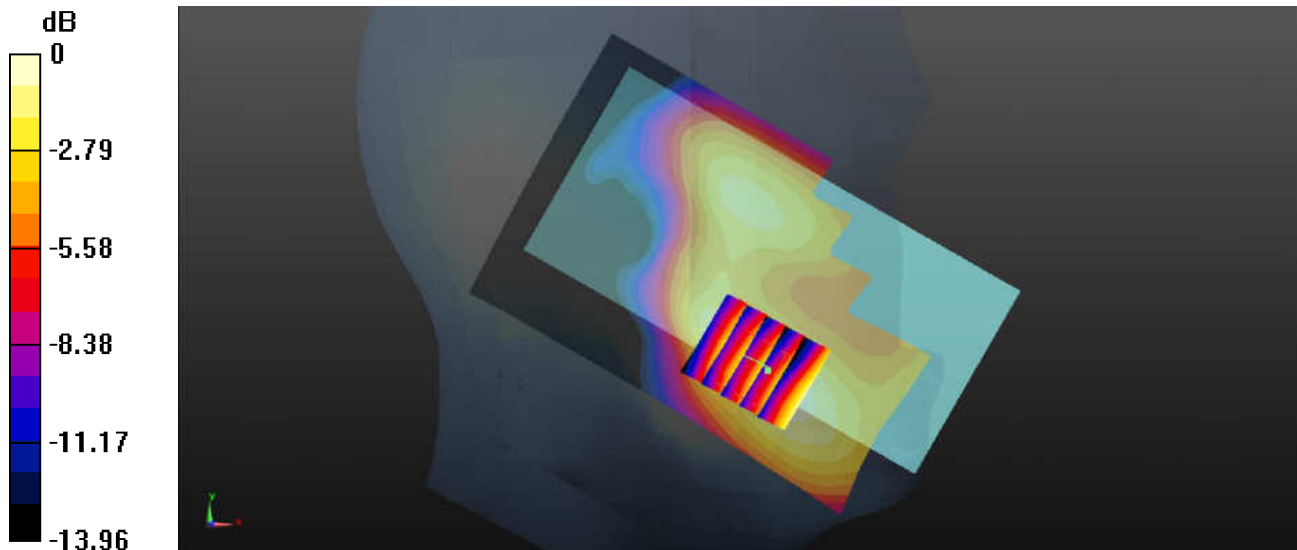
Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: HSL\_1900\_Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.443$  S/m;  $\epsilon_r = 39.231$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.41, 8.41, 8.41); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch18900/Area Scan (71x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.0979 W/kg

**Ch18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 2.195 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 0.121 W/kg  
**SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.048 W/kg**  
Maximum value of SAR (measured) = 0.100 W/kg



0 dB = 0.100 W/kg

**#08\_LTE Band 41\_20M\_QPSK\_1RB\_99offset\_Left Cheek\_0mm\_Ch40620**

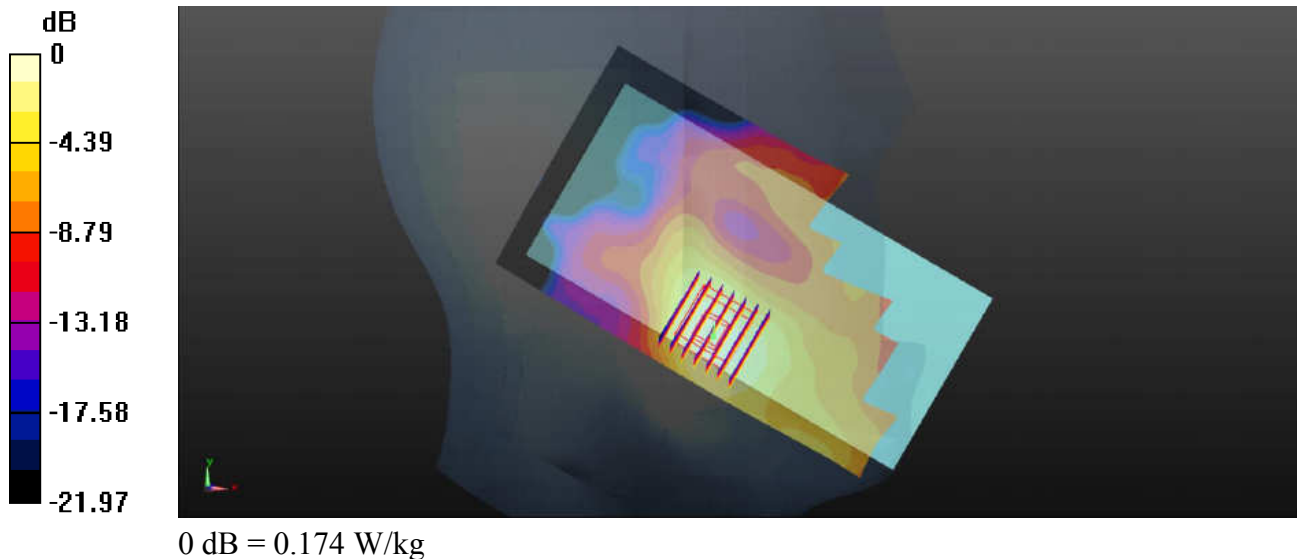
Communication System: UID 0, TDD-LTE (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59  
Medium: HSL\_2600\_Medium parameters used:  $f = 2593$  MHz;  $\sigma = 2.029$  S/m;  $\epsilon_r = 39.063$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 23.3 °C ; Liquid Temperature : 22.2 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(7.67, 7.67, 7.67); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch40620/Area Scan (81x151x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm  
Maximum value of SAR (interpolated) = 0.160 W/kg

**Ch40620/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 1.231 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 0.220 W/kg  
**SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.054 W/kg**  
Maximum value of SAR (measured) = 0.174 W/kg



**#09\_WCDMA Band V\_RMC 12.2Kbps\_Front\_5mm\_Ch4132**

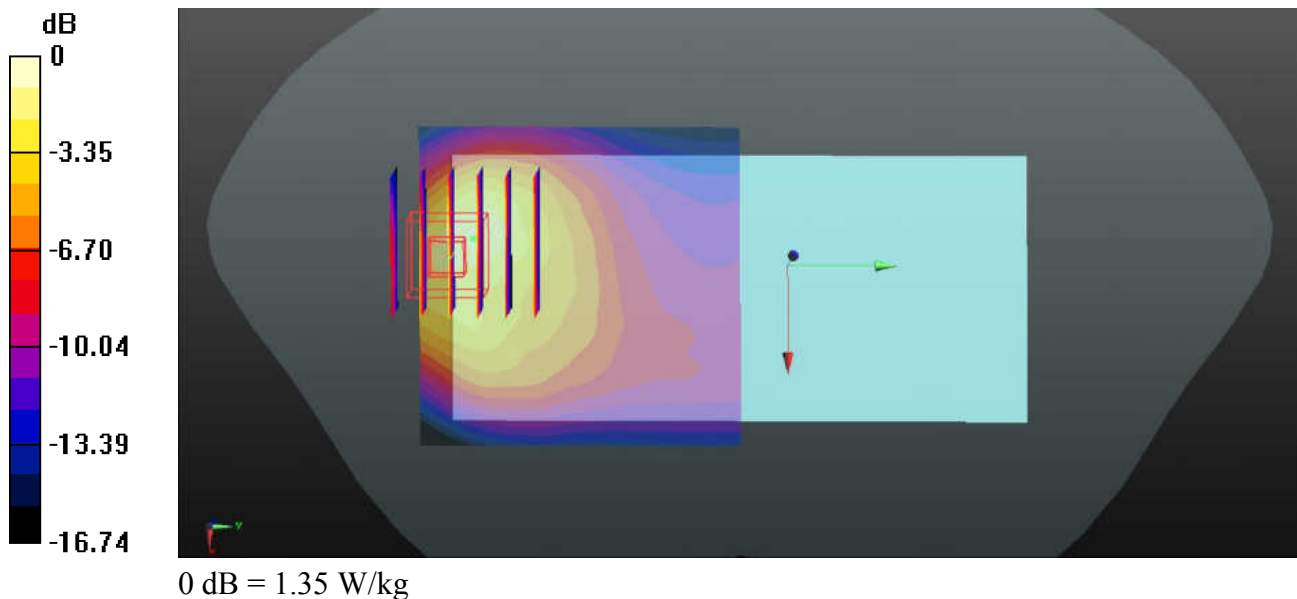
Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1  
Medium: MSL\_835\_Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 55.309$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.3^\circ\text{C}$ ; Liquid Temperature :  $22.2^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch4132/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) =  $1.09 \text{ W/kg}$

**Ch4132/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $11.16 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$   
Peak SAR (extrapolated) =  $1.69 \text{ W/kg}$   
**SAR(1 g) =  $0.769 \text{ W/kg}$ ; SAR(10 g) =  $0.394 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $1.35 \text{ W/kg}$



# **#10\_WCDMA Band IV\_RMC 12.2Kbps\_Bottom side\_5mm\_Ch1312**

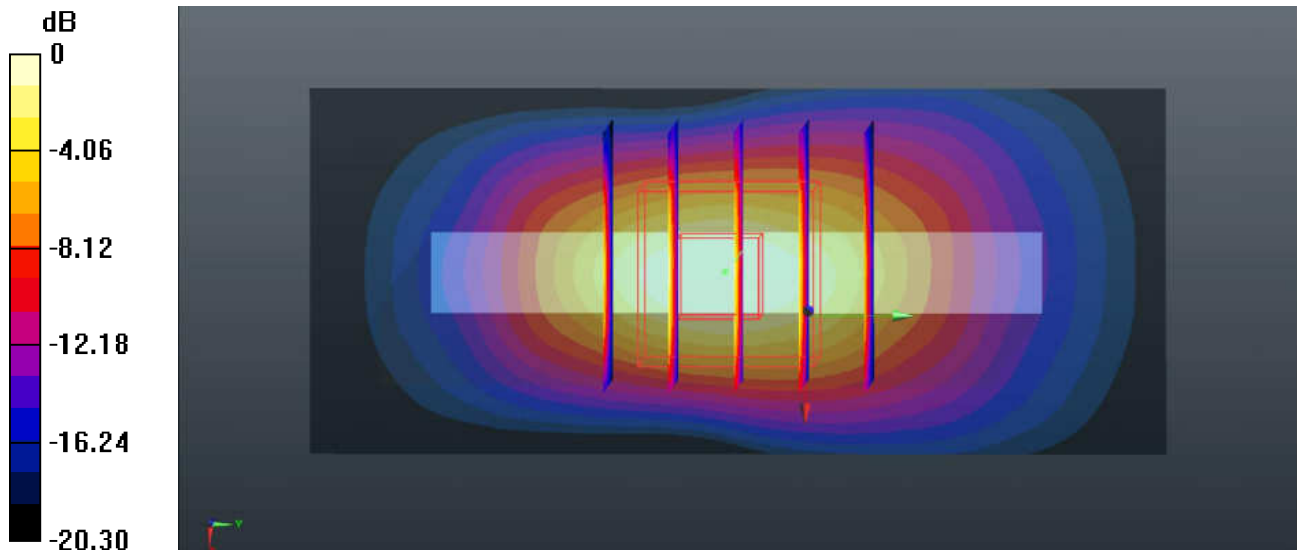
Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
 Medium: MSL\_1750\_Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 54.832$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
 Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch1312/Area Scan (31x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Maximum value of SAR (interpolated) = 1.24 W/kg

**Ch1312/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
 Reference Value = 22.45 V/m; Power Drift = -0.01 dB  
 Peak SAR (extrapolated) = 1.35 W/kg  
**SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.298 W/kg**  
 Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg

**#11\_WCDMA Band II\_RMC 12.2Kbps\_Bottom side\_5mm\_Ch9262**

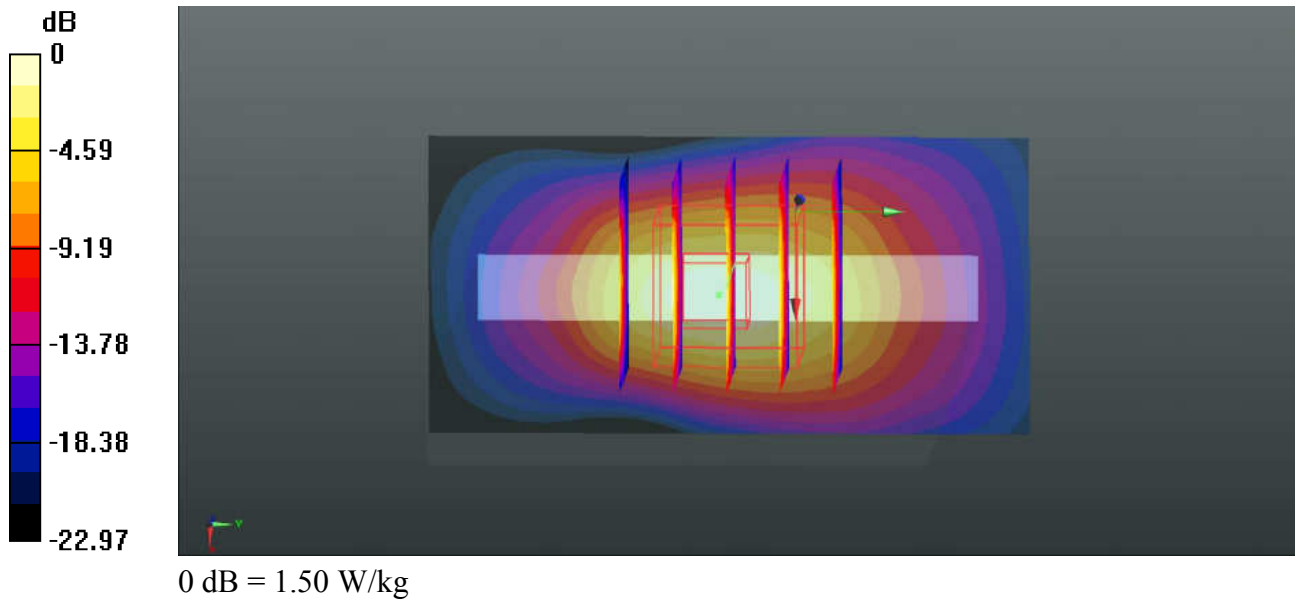
Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium: MSL\_1900\_Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.506$  S/m;  $\epsilon_r = 53.229$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch9262/Area Scan (31x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.48 W/kg

**Ch9262/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 25.76 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 1.92 W/kg  
**SAR(1 g) = 0.911 W/kg; SAR(10 g) = 0.408 W/kg**  
Maximum value of SAR (measured) = 1.50 W/kg



**#12\_LTE Band 71\_20M\_QPSK\_1RB\_99offset\_Front\_5mm\_Ch133322**

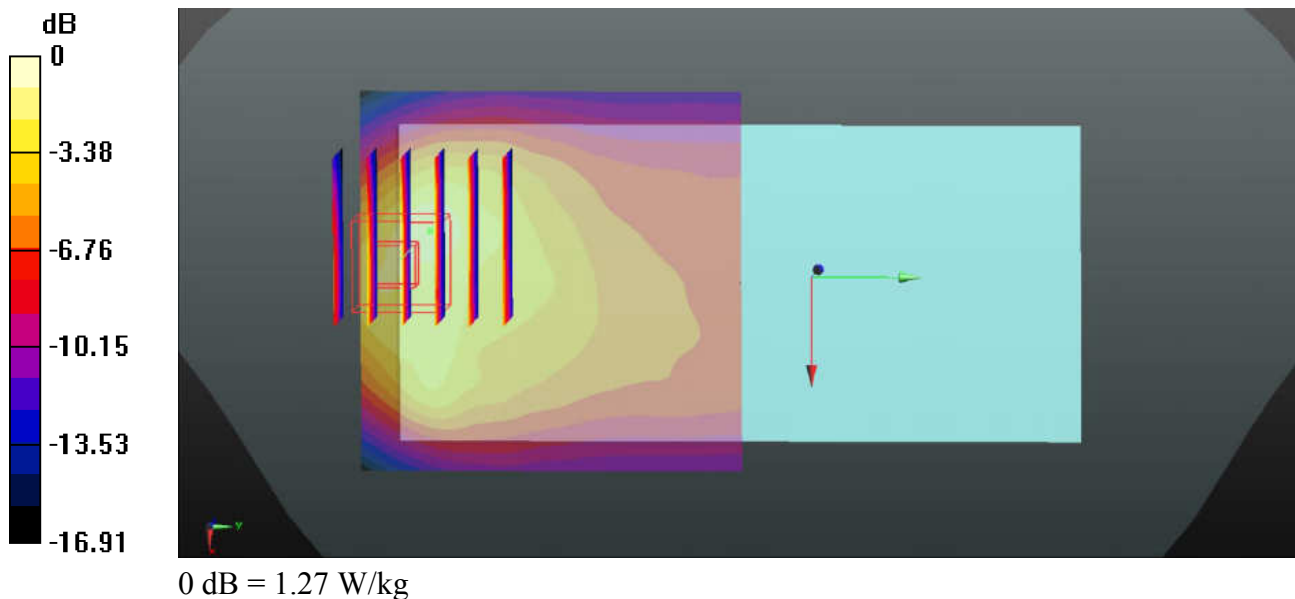
Communication System: UID 0, FDD-LTE (0); Frequency: 683 MHz; Duty Cycle: 1:1  
Medium: MSL\_750\_Medium parameters used:  $f = 683 \text{ MHz}$ ;  $\sigma = 0.913 \text{ S/m}$ ;  $\epsilon_r = 57.474$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.6 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(10.65, 10.65, 10.65); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch133322/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.976 \text{ W/kg}$

**Ch133322/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $15.39 \text{ V/m}$ ; Power Drift =  $-0.02 \text{ dB}$   
Peak SAR (extrapolated) =  $1.62 \text{ W/kg}$   
**SAR(1 g) =  $0.696 \text{ W/kg}$ ; SAR(10 g) =  $0.356 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $1.27 \text{ W/kg}$



**#13\_LTE Band 5\_10M\_QPSK\_1RB\_49offset\_Front\_5mm\_Ch20525**

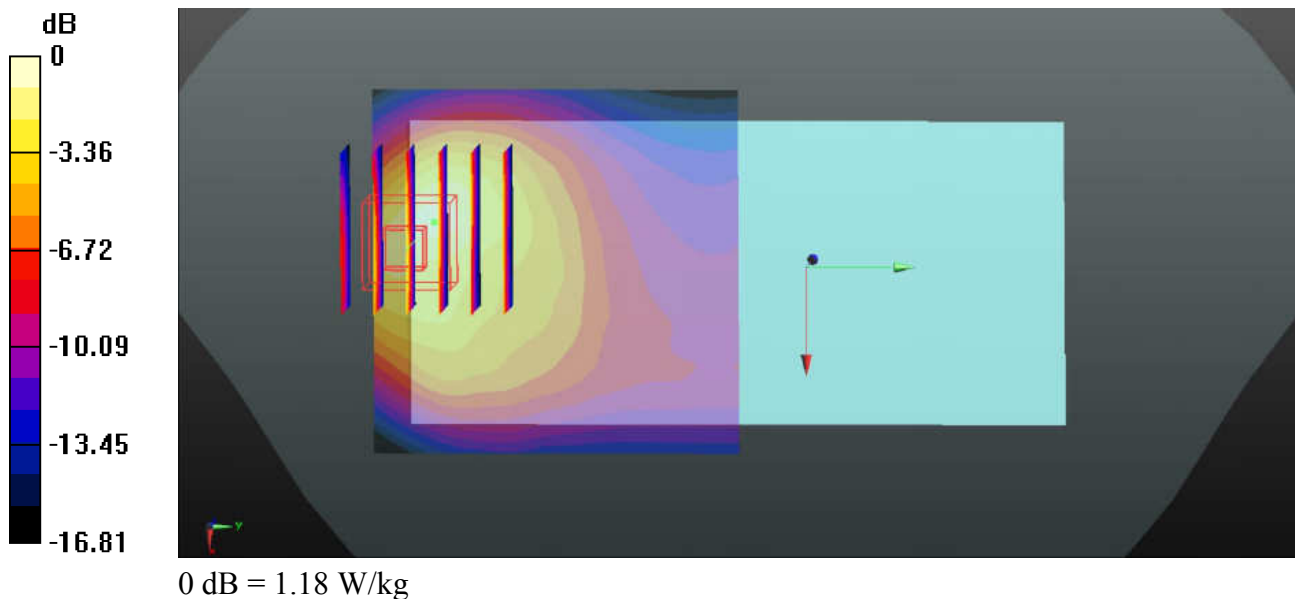
Communication System: UID 0, FDD-LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium: MSL\_835\_Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 0.997$  S/m;  $\epsilon_r = 55.211$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.3^\circ\text{C}$ ; Liquid Temperature :  $22.2^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch20525/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) =  $1.06 \text{ W/kg}$

**Ch20525/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $10.13 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$   
Peak SAR (extrapolated) =  $1.48 \text{ W/kg}$   
**SAR(1 g) =  $0.687 \text{ W/kg}$ ; SAR(10 g) =  $0.358 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $1.18 \text{ W/kg}$



**#14\_LTE Band 66\_20M\_QPSK\_1RB\_99offset\_Bottom side\_5mm\_Ch132072**

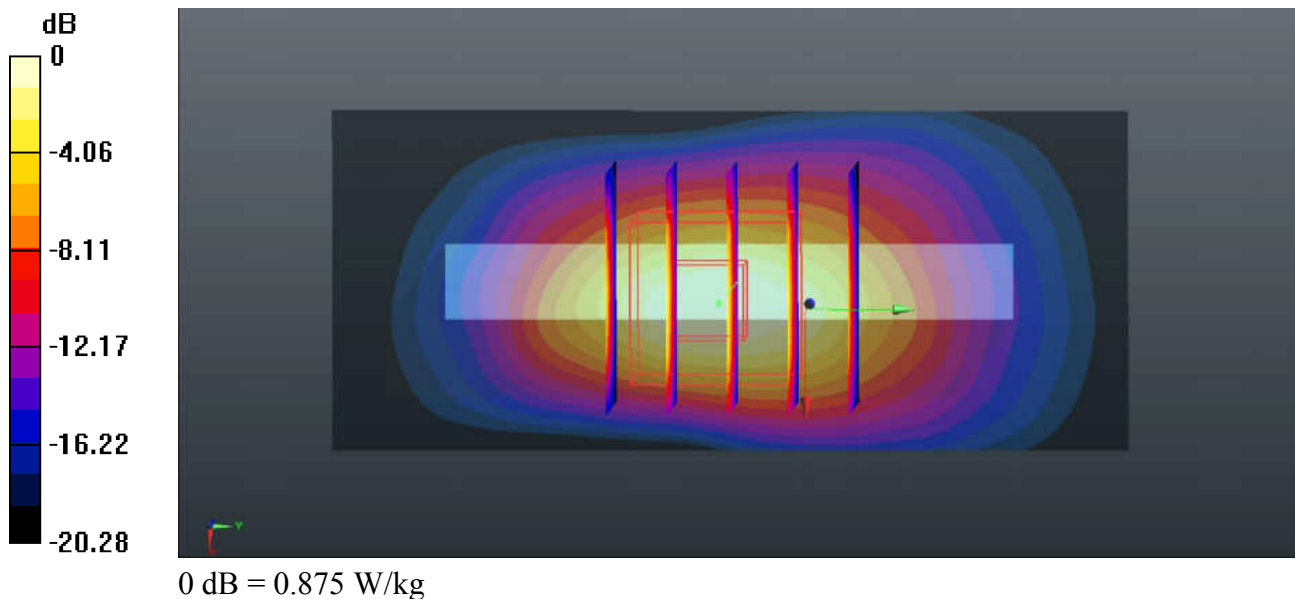
Communication System: UID 0, FDD-LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1  
Medium: MSL\_1750\_Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.435$  S/m;  $\epsilon_r = 54.803$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch132072/Area Scan (31x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.982 W/kg

**Ch132072/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 19.97 V/m; Power Drift = -0.07 dB  
Peak SAR (extrapolated) = 1.13 W/kg  
**SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.250 W/kg**  
Maximum value of SAR (measured) = 0.875 W/kg



**#15\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_Bottom side\_5mm\_Ch18900**

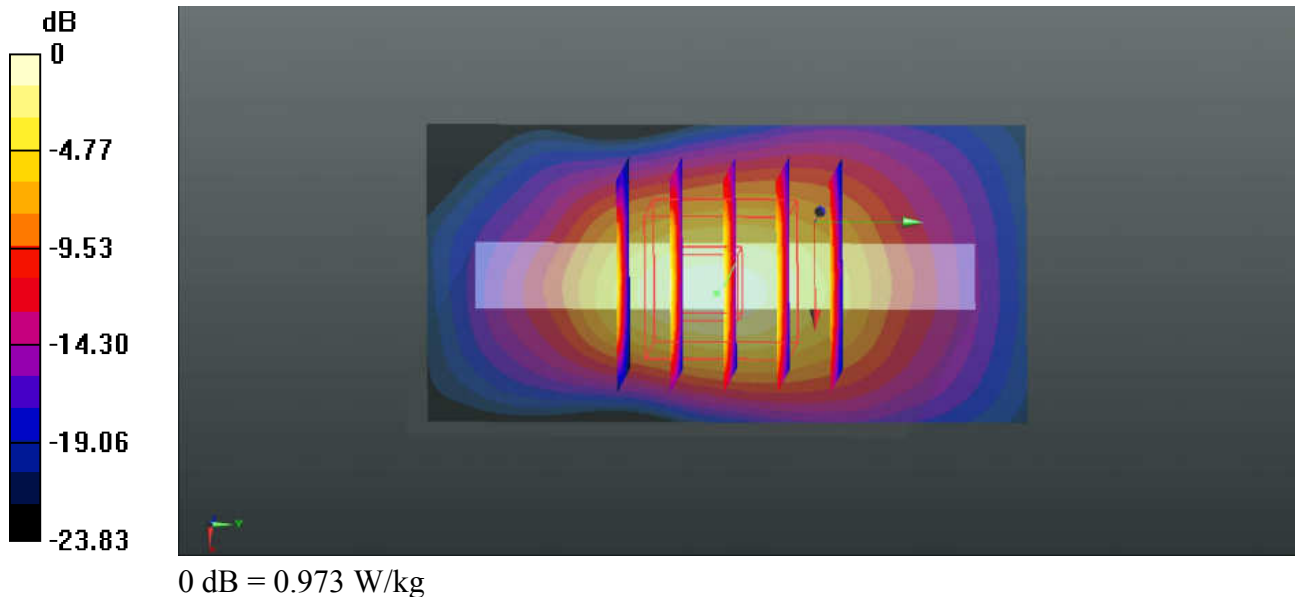
Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: MSL\_1900\_Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.538$  S/m;  $\epsilon_r = 53.152$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.4^\circ\text{C}$ ; Liquid Temperature :  $22.3^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch18900/Area Scan (31x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) =  $0.861 \text{ W/kg}$

**Ch18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $20.06 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$   
Peak SAR (extrapolated) =  $1.27 \text{ W/kg}$   
**SAR(1 g) =  $0.578 \text{ W/kg}$ ; SAR(10 g) =  $0.254 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $0.973 \text{ W/kg}$



**#16\_LTE Band 41\_20M\_QPSK\_1RB\_99offset\_Bottom side\_5mm\_Ch41490**

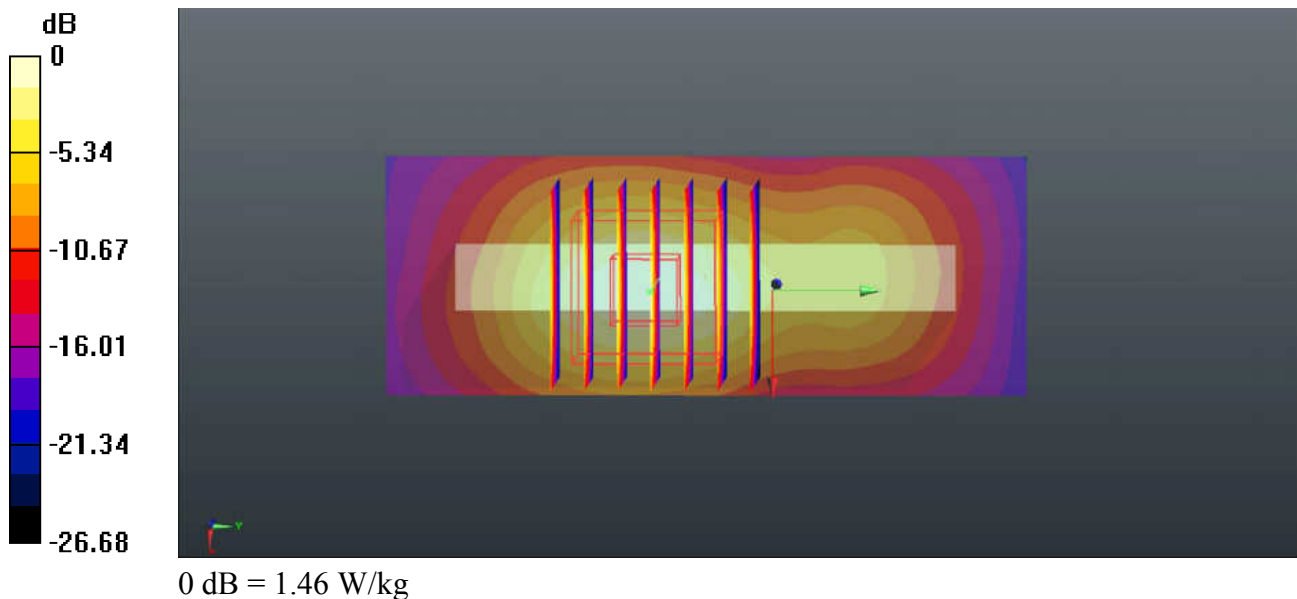
Communication System: UID 0, TDD-LTE (0); Frequency: 2680 MHz; Duty Cycle: 1:1.59  
Medium: MSL\_2600\_Medium parameters used:  $f = 2680$  MHz;  $\sigma = 2.258$  S/m;  $\epsilon_r = 52.777$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.6^\circ\text{C}$ ; Liquid Temperature :  $22.6^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(7.71, 7.71, 7.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch41490/Area Scan (31x81x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm  
Maximum value of SAR (interpolated) =  $1.38 \text{ W/kg}$

**Ch41490/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $17.35 \text{ V/m}$ ; Power Drift =  $0.03 \text{ dB}$   
Peak SAR (extrapolated) =  $1.86 \text{ W/kg}$   
**SAR(1 g) =  $0.797 \text{ W/kg}$ ; SAR(10 g) =  $0.338 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $1.46 \text{ W/kg}$



**#17\_WCDMA Band V\_RMC 12.2Kbps\_Front\_5mm\_Ch4132**

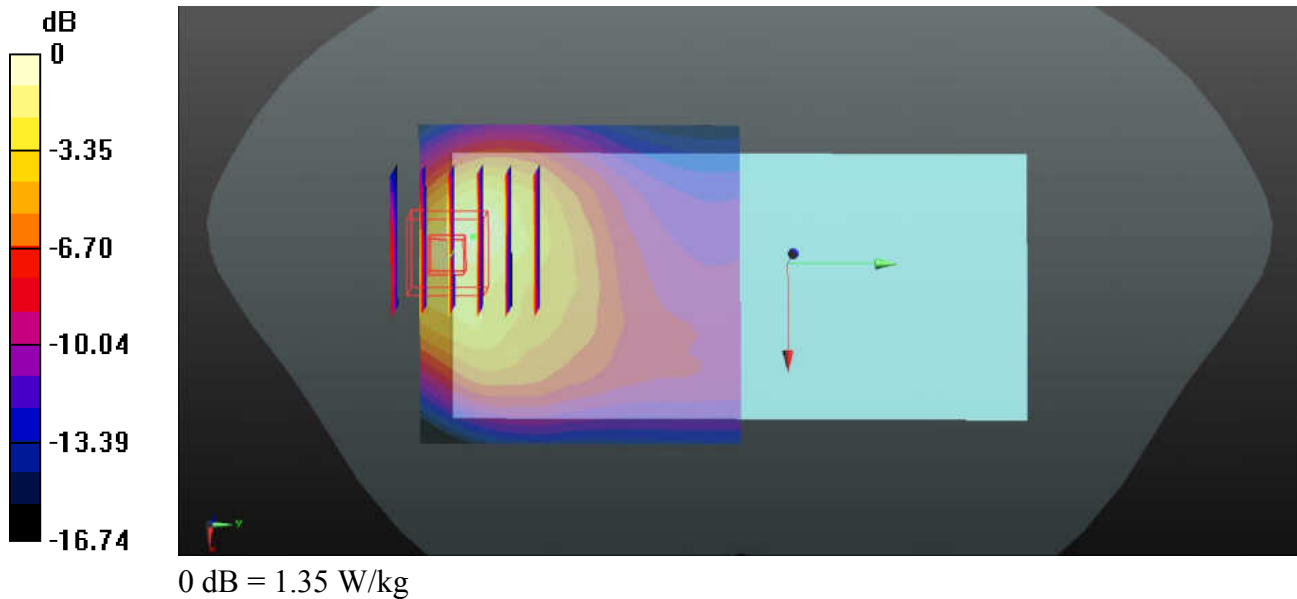
Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1  
Medium: MSL\_835\_Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 55.309$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.3^\circ\text{C}$ ; Liquid Temperature :  $22.2^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch4132/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) =  $1.09 \text{ W/kg}$

**Ch4132/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $11.16 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$   
Peak SAR (extrapolated) =  $1.69 \text{ W/kg}$   
**SAR(1 g) =  $0.769 \text{ W/kg}$ ; SAR(10 g) =  $0.394 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $1.35 \text{ W/kg}$



**#18\_WCDMA Band IV\_RMC 12.2Kbps\_Front\_5mm\_Ch1312**

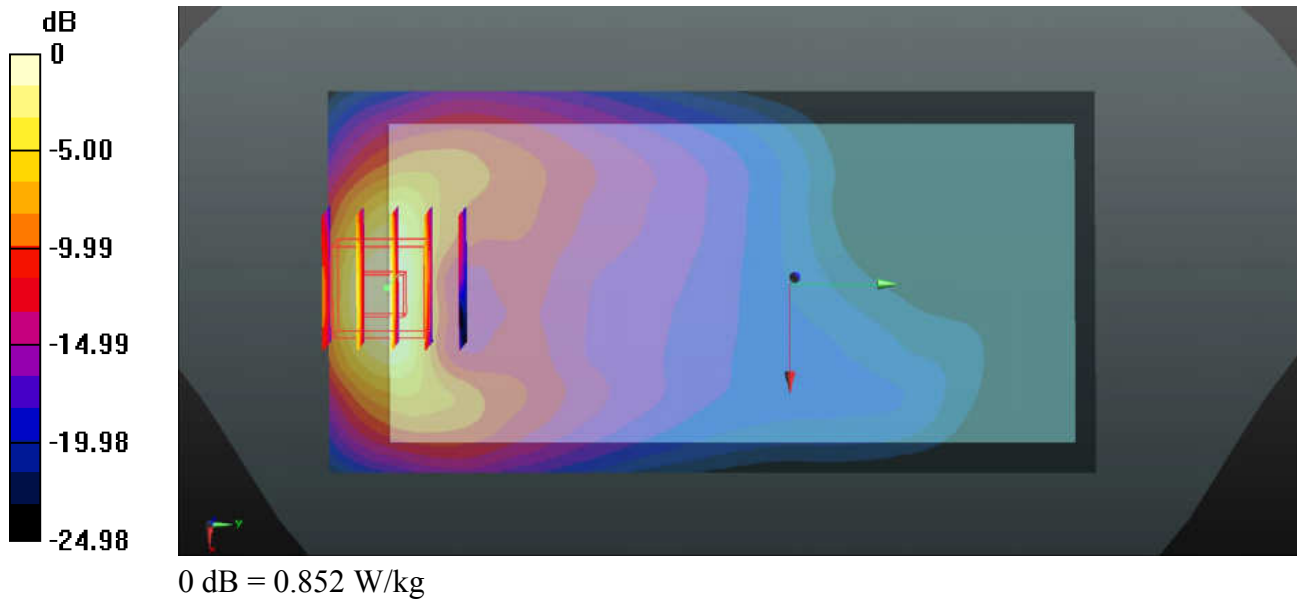
Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1  
Medium: MSL\_1750\_Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.427$  S/m;  $\epsilon_r = 54.832$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch1312/Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.859 W/kg

**Ch1312/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 2.815 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 1.04 W/kg  
**SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.241 W/kg**  
Maximum value of SAR (measured) = 0.852 W/kg



**#19\_WCDMA Band II\_RMC 12.2Kbps\_Front\_5mm\_Ch9538**

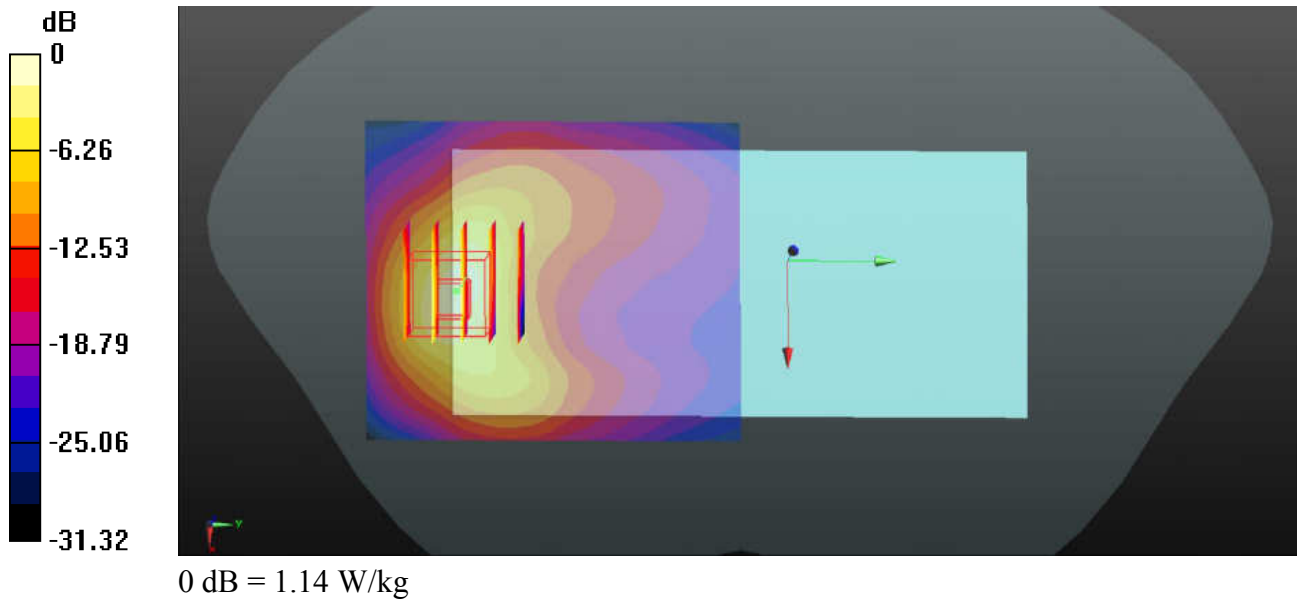
Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium: MSL\_1900\_Medium parameters used:  $f = 1907.6$  MHz;  $\sigma = 1.57$  S/m;  $\epsilon_r = 53.081$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.3 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch9538/Area Scan (61x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.920 W/kg

**Ch9538/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 2.062 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 1.53 W/kg  
**SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.298 W/kg**  
Maximum value of SAR (measured) = 1.14 W/kg



**#20\_LTE Band 71\_20M\_QPSK\_1RB\_99offset\_Front\_5mm\_Ch133322**

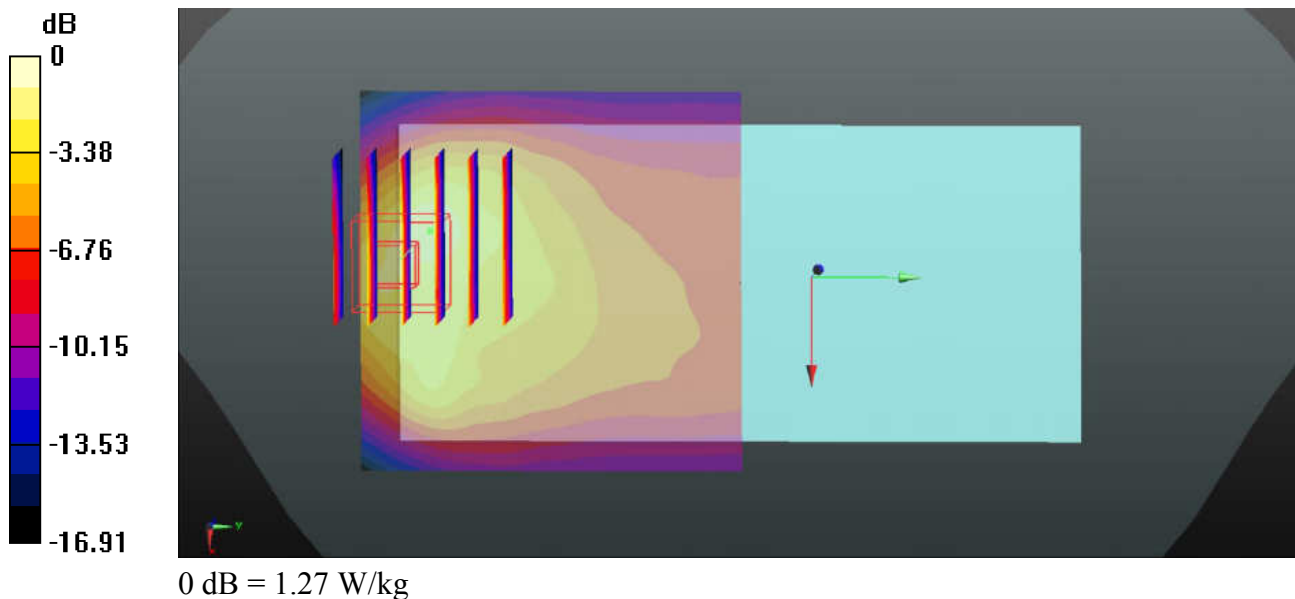
Communication System: UID 0, FDD-LTE (0); Frequency: 683 MHz; Duty Cycle: 1:1  
Medium: MSL\_750\_Medium parameters used:  $f = 683 \text{ MHz}$ ;  $\sigma = 0.913 \text{ S/m}$ ;  $\epsilon_r = 57.474$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.6 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(10.65, 10.65, 10.65); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch133322/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) =  $0.976 \text{ W/kg}$

**Ch133322/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $15.39 \text{ V/m}$ ; Power Drift =  $-0.02 \text{ dB}$   
Peak SAR (extrapolated) =  $1.62 \text{ W/kg}$   
**SAR(1 g) =  $0.696 \text{ W/kg}$ ; SAR(10 g) =  $0.356 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $1.27 \text{ W/kg}$



**#21\_LTE Band 5\_10M\_QPSK\_1RB\_49offset\_Front\_5mm\_Ch20525**

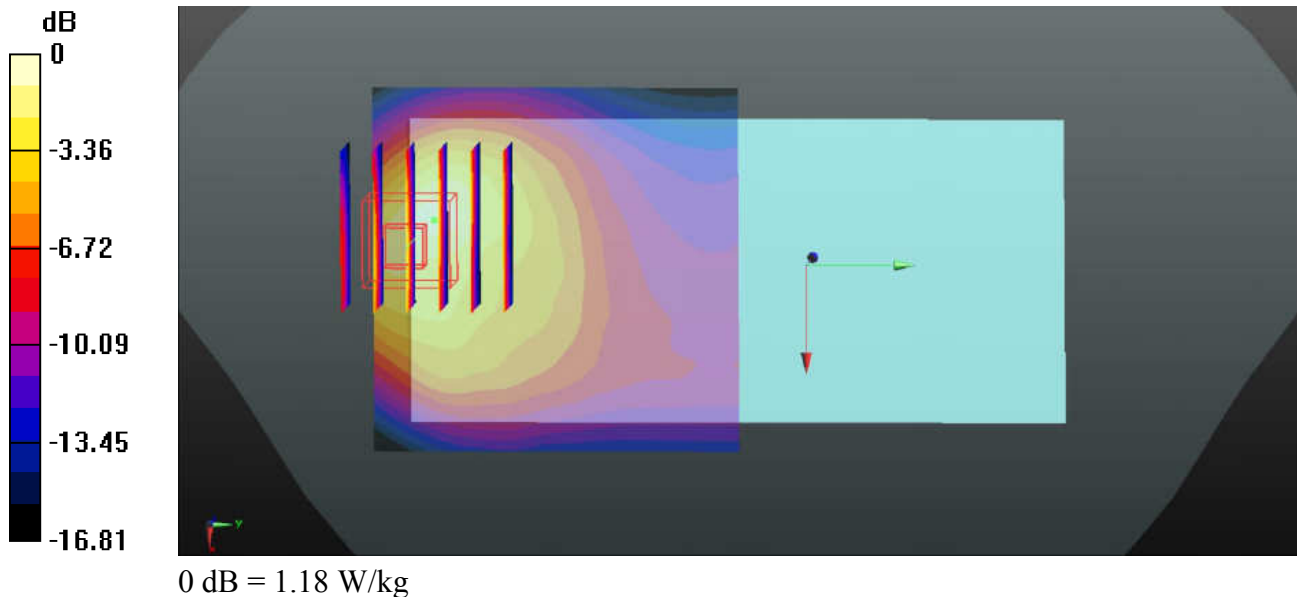
Communication System: UID 0, FDD-LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1  
Medium: MSL\_835\_Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 0.997$  S/m;  $\epsilon_r = 55.211$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.3^\circ\text{C}$ ; Liquid Temperature :  $22.2^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch20525/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) =  $1.06 \text{ W/kg}$

**Ch20525/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $10.13 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$   
Peak SAR (extrapolated) =  $1.48 \text{ W/kg}$   
**SAR(1 g) =  $0.687 \text{ W/kg}$ ; SAR(10 g) =  $0.358 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $1.18 \text{ W/kg}$



**#22\_LTE Band 66\_20M\_QPSK\_1RB\_99offset\_Front\_5mm\_Ch132072**

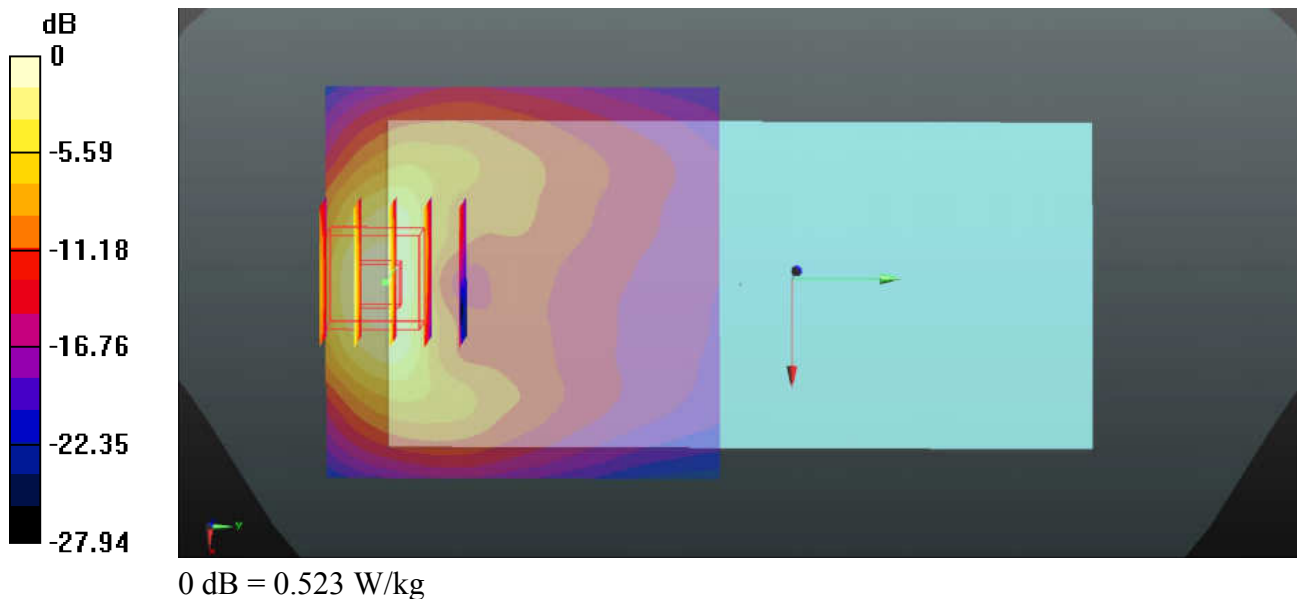
Communication System: UID 0, FDD-LTE (0); Frequency: 1720 MHz; Duty Cycle: 1:1  
Medium: MSL\_1750\_Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.435$  S/m;  $\epsilon_r = 54.803$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch132072/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.498 W/kg

**Ch132072/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 2.366 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 0.665 W/kg  
**SAR(1 g) = 0.335 W/kg; SAR(10 g) = 0.154 W/kg**  
Maximum value of SAR (measured) = 0.523 W/kg



**#23\_LTE Band 2\_20M\_QPSK\_1RB\_0offset\_Front\_5mm\_Ch18900**

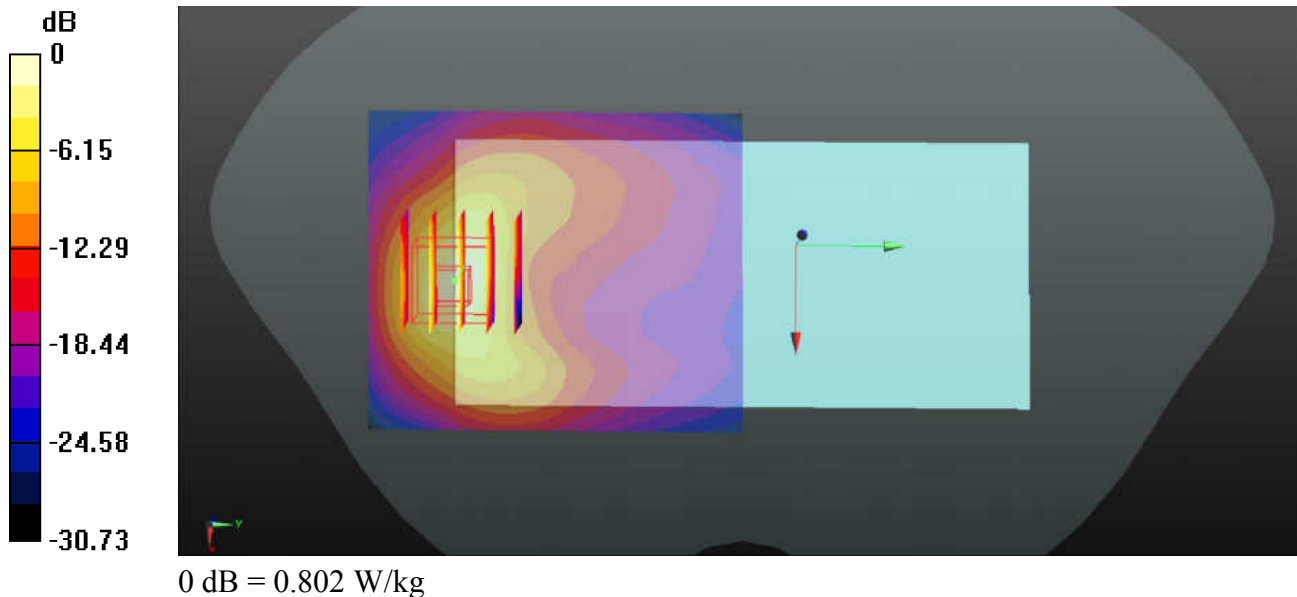
Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: MSL\_1900\_Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.538$  S/m;  $\epsilon_r = 53.152$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.4^\circ\text{C}$ ; Liquid Temperature :  $22.3^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch18900/Area Scan (61x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) =  $0.618 \text{ W/kg}$

**Ch18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value =  $1.963 \text{ V/m}$ ; Power Drift =  $0.01 \text{ dB}$   
Peak SAR (extrapolated) =  $1.02 \text{ W/kg}$   
**SAR(1 g) =  $0.480 \text{ W/kg}$ ; SAR(10 g) =  $0.209 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $0.802 \text{ W/kg}$



**#24\_LTE Band 41\_20M\_QPSK\_1RB\_99offset\_Front\_5mm\_Ch40185**

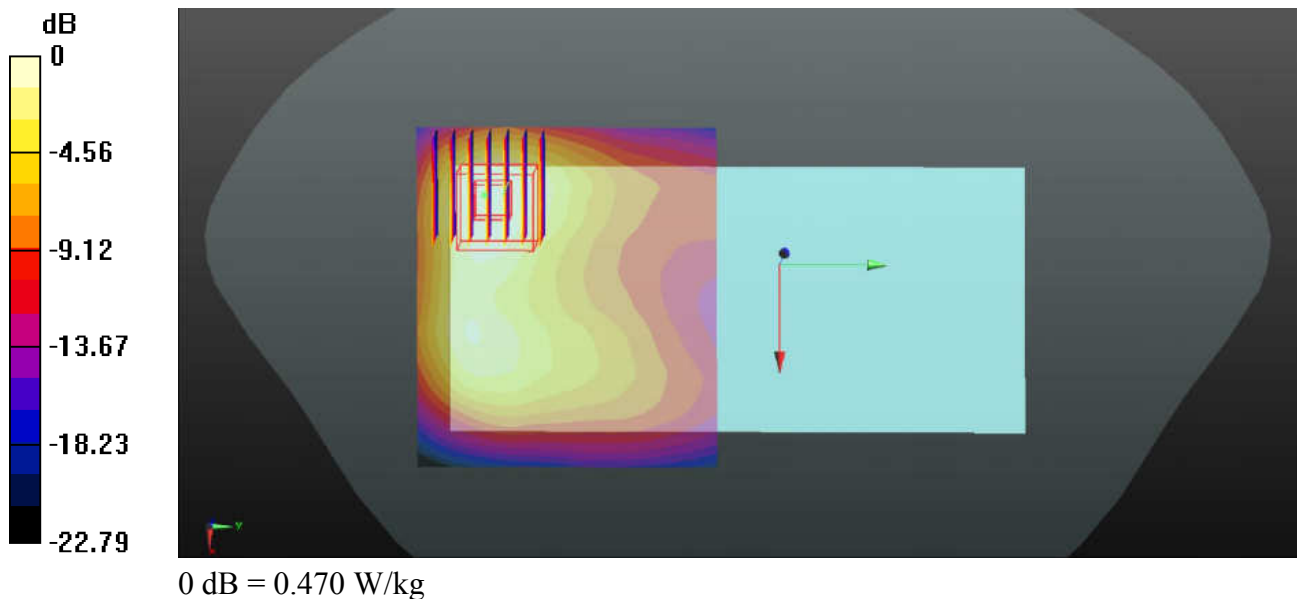
Communication System: UID 0, TDD-LTE (0); Frequency: 2549.5 MHz; Duty Cycle: 1:1.59  
Medium: MSL\_2600\_Medium parameters used:  $f = 2549.5$  MHz;  $\sigma = 2.077$  S/m;  $\epsilon_r = 53.265$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.6 °C; Liquid Temperature : 22.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(7.71, 7.71, 7.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM $\mp$  Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch40185/Area Scan (81x71x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 0.530 W/kg

**Ch40185/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 2.918 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 0.616 W/kg  
**SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.148 W/kg**  
Maximum value of SAR (measured) = 0.470 W/kg



**#25\_WCDMA Band V\_RMC 12.2Kbps\_Front\_0mm\_Ch4132**

Communication System: UID 0, WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1  
Medium: MSL\_835\_Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 55.309$ ;  
 $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.3^\circ \text{C}$ ; Liquid Temperature :  $22.2^\circ \text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch4132/Area Scan (61x61x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) =  $3.88 \text{ W/kg}$

**Ch4132/Zoom Scan (7x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $6.109 \text{ V/m}$ ; Power Drift =  $0.15 \text{ dB}$

Peak SAR (extrapolated) =  $5.20 \text{ W/kg}$

**SAR(1 g) =  $2.03 \text{ W/kg}$ ; SAR(10 g) =  $1.01 \text{ W/kg}$**

Maximum value of SAR (measured) =  $3.49 \text{ W/kg}$

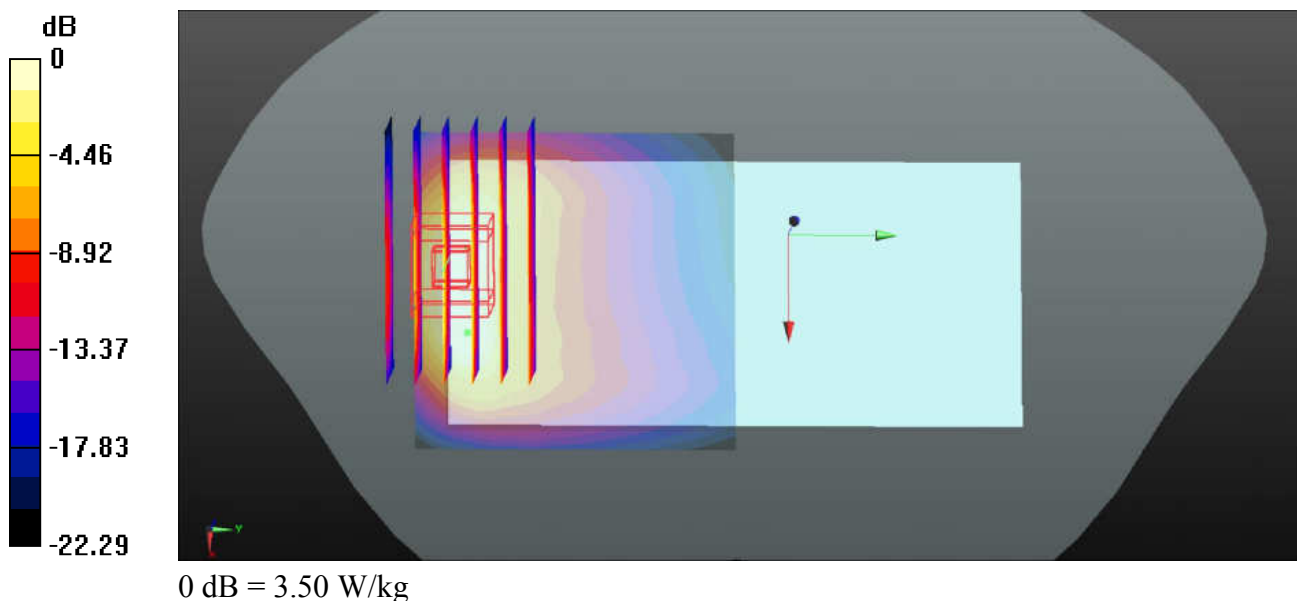
**Ch4132/Zoom Scan (7x6x7)/Cube 1:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $6.109 \text{ V/m}$ ; Power Drift =  $0.15 \text{ dB}$

Peak SAR (extrapolated) =  $4.77 \text{ W/kg}$

**SAR(1 g) =  $2.03 \text{ W/kg}$ ; SAR(10 g) =  $0.988 \text{ W/kg}$**

Maximum value of SAR (measured) =  $3.50 \text{ W/kg}$



**#26\_WCDMA Band IV\_RMC 12.2Kbps\_Bottom side\_0mm\_Ch1513**

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1  
Medium: MSL\_1750\_Medium parameters used:  $f = 1752.6$  MHz;  $\sigma = 1.469$  S/m;  $\epsilon_r = 54.704$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

**Ch1513/Area Scan (31x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 12.6 W/kg

**Ch1513/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 76.56 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 18.2 W/kg  
**SAR(1 g) = 7.32 W/kg; SAR(10 g) = 2.93 W/kg**  
Maximum value of SAR (measured) = 14.6 W/kg

