



Appendix B. Plots of High SAR Measurement

The plots are shown as follows.

01_GSM850_GPRS 3 Tx slots_Left Cheek_0mm_Ch251

Communication System: UID 0, GPRS/EDGE (3 Tx slots) (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.77

Medium: HSL_835 Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 42.031$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(10.2, 10.2, 10.2); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch251/Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.253 W/kg

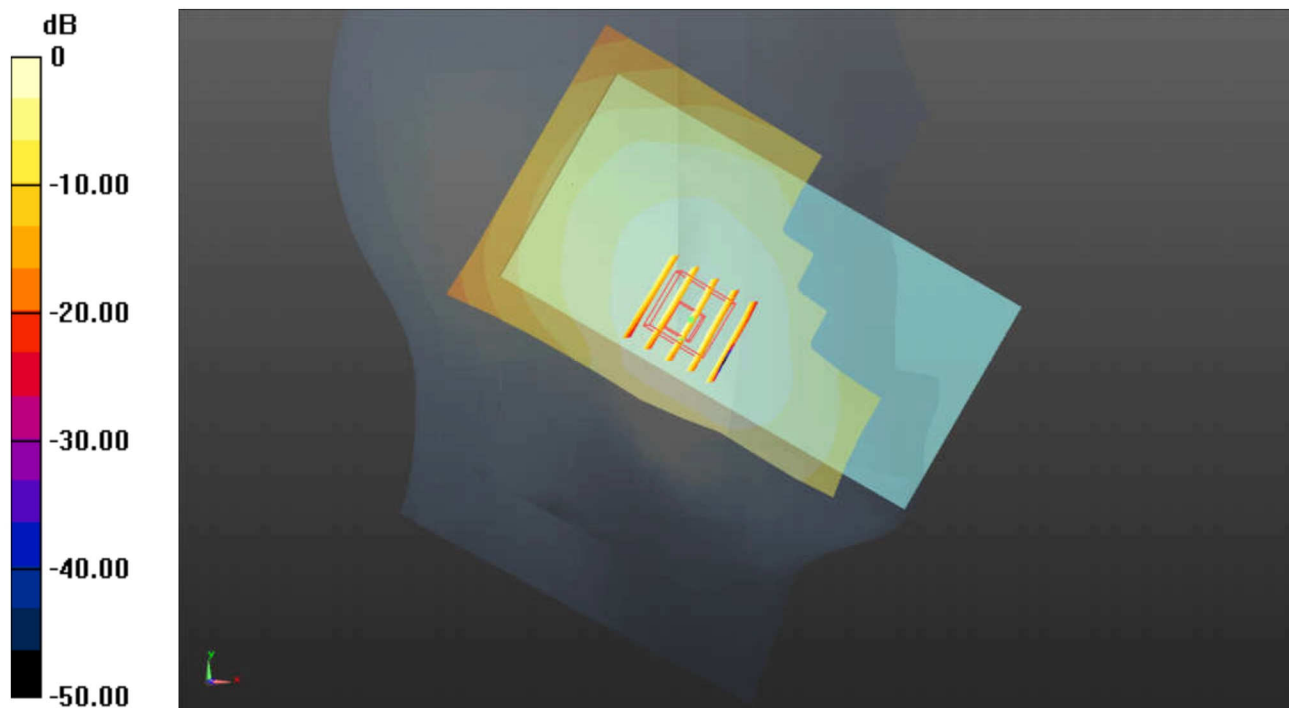
Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.438 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.281 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.252 W/kg



0 dB = 0.253 W/kg = -5.97 dBW/kg

02_GSM1900_GPRS 3 Tx slots_Right Cheek_0mm_Ch810

Communication System: UID 0, GPRS/EDGE (3 Tx slots) (0); Frequency: 1909.8 MHz; Duty Cycle: 1:2.77
Medium: HSL_1900 Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.412$ S/m; $\epsilon_r = 40.547$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(8.41, 8.41, 8.41); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.157 W/kg

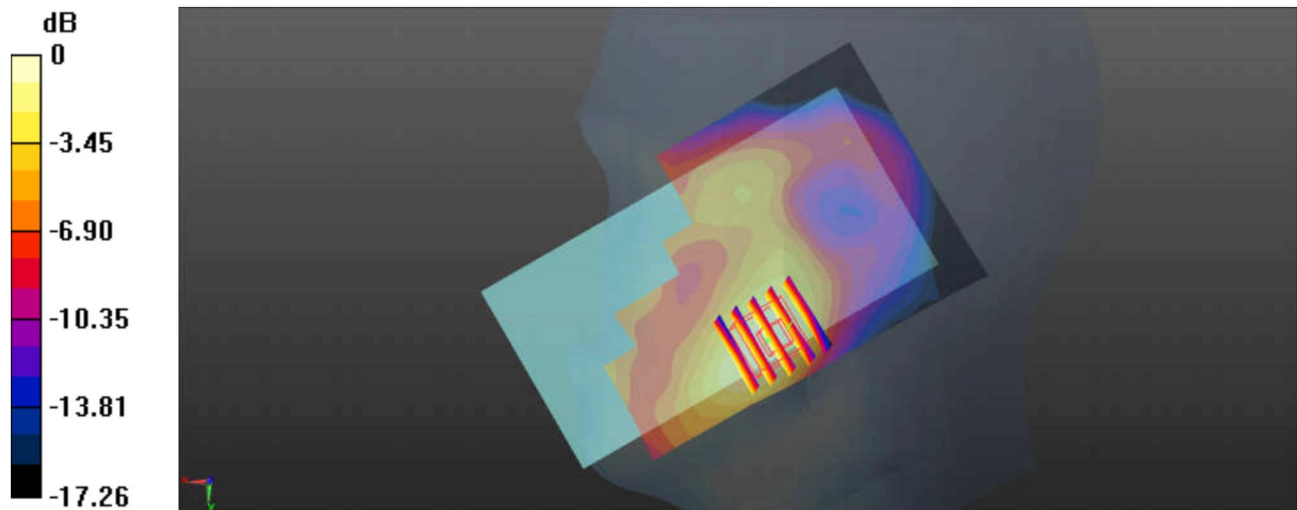
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.709 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.120 W/kg; SAR(10 g) = 0.075 W/kg

Maximum value of SAR (measured) = 0.149 W/kg



0 dB = 0.157 W/kg = -8.04 dBW/kg

03_WCDMA Band V_RMC12.2Kbps_Left Cheek_0mm_Ch4182

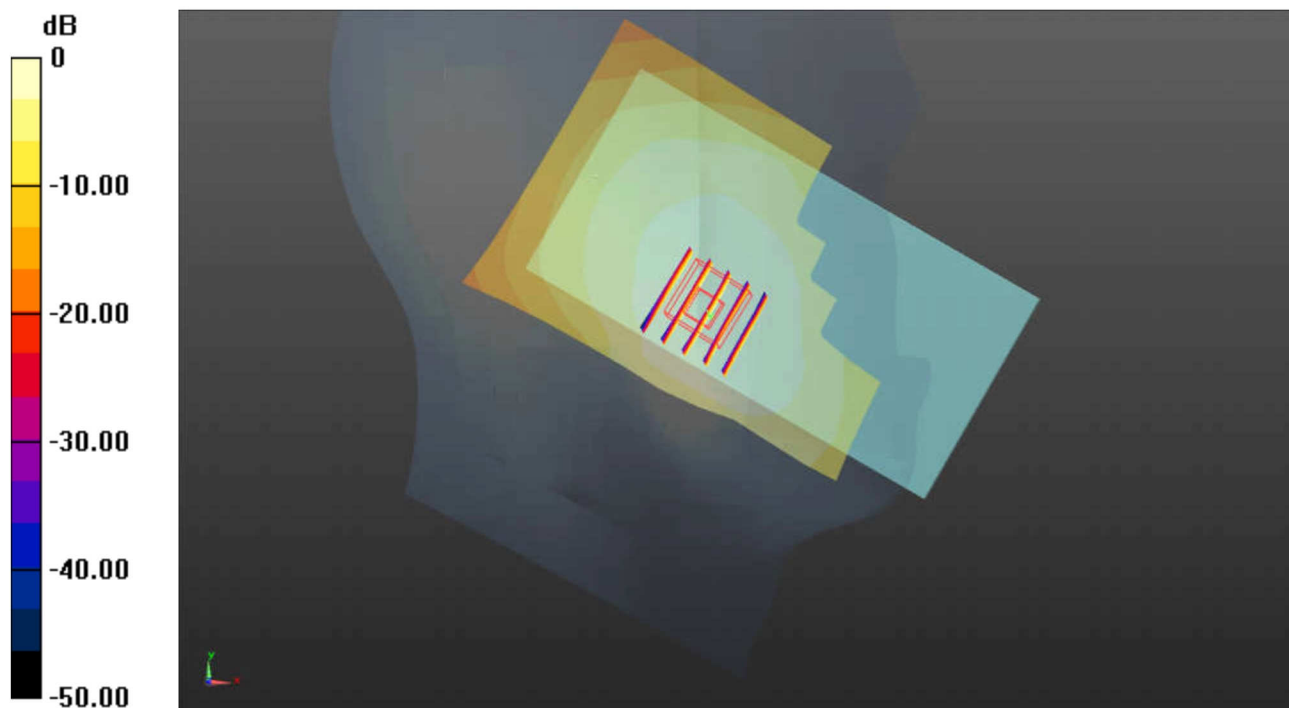
Communication System: UID 0, UMTS (0); Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 42.188$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(10.2, 10.2, 10.2); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4182/Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.330 W/kg

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 8.177 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.363 W/kg
SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.225 W/kg
Maximum value of SAR (measured) = 0.327 W/kg



0 dB = 0.330 W/kg = -4.81 dBW/kg

04_WCDMA Band II_RMC12.2Kbps_Right Cheek_0mm_Ch9538

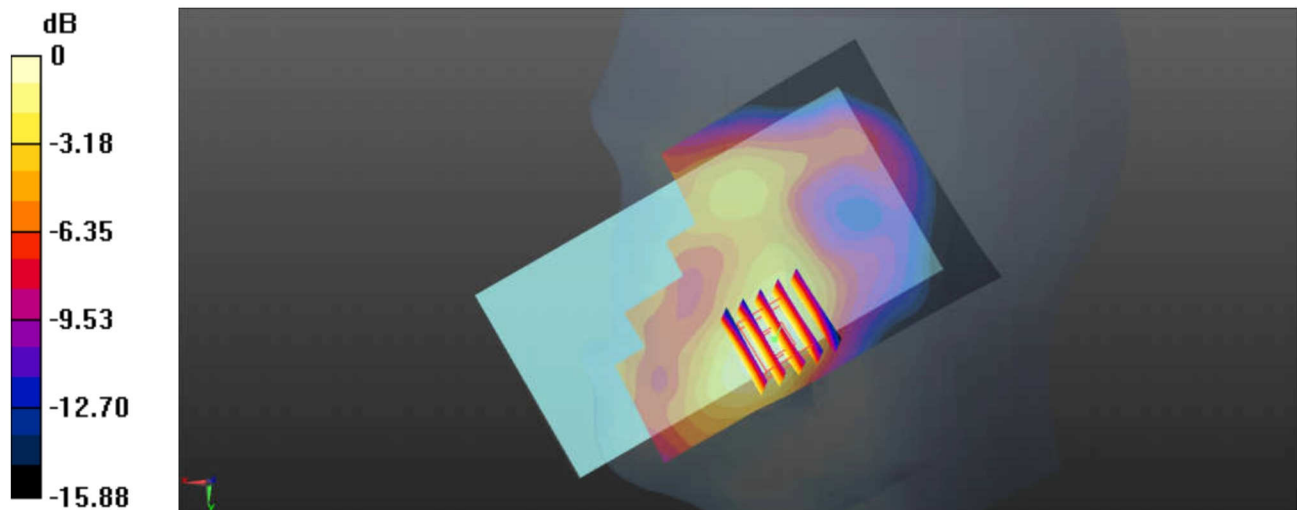
Communication System: UID 0, UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.409$ S/m; $\epsilon_r = 40.548$;
 $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(8.41, 8.41, 8.41); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.280 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 4.778 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.318 W/kg
SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.138 W/kg
Maximum value of SAR (measured) = 0.272 W/kg



0 dB = 0.280 W/kg = -5.53 dBW/kg

05_CDMA2000 BC0_RC3 SO55_Left Cheek_0mm_Ch777

Communication System: UID 0, CDMA2000 (0); Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: HSL_835 Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 42.04$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(10.2, 10.2, 10.2); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch777/Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.452 W/kg

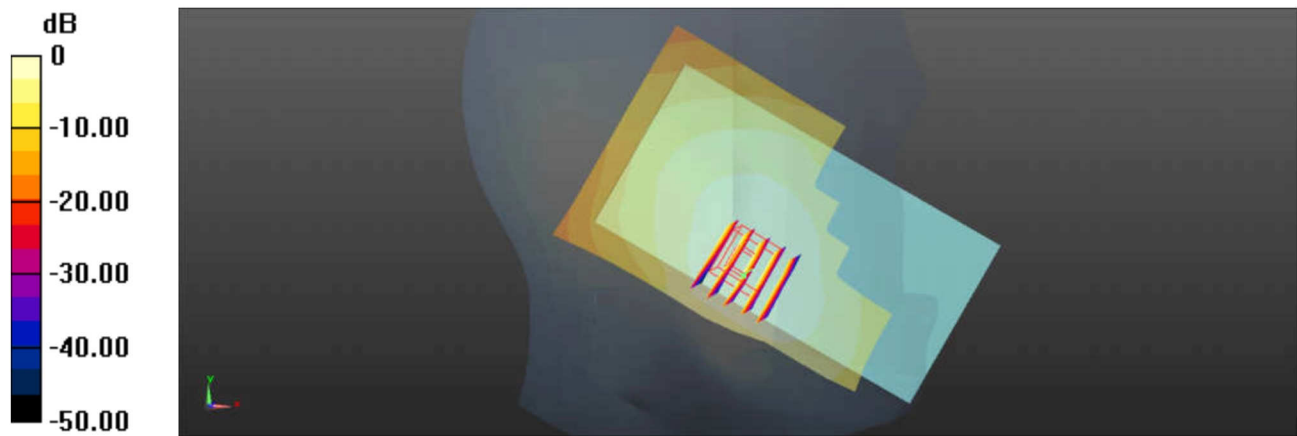
Ch777/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.948 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.490 W/kg

SAR(1 g) = 0.386 W/kg; SAR(10 g) = 0.298 W/kg

Maximum value of SAR (measured) = 0.440 W/kg



0 dB = 0.452 W/kg = -3.45 dBW/kg

06_CDMA2000 BC1_RC3 SO55_Right Cheek_0mm_Ch1175

Communication System: UID 0, CDMA2000 (0); Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.549$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(8.41, 8.41, 8.41); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1175/Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.297 W/kg

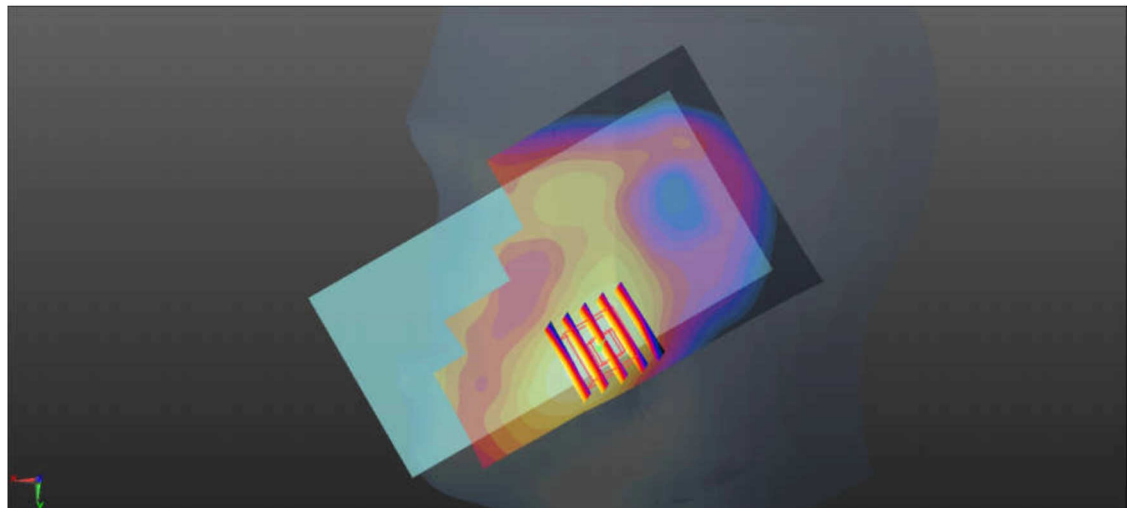
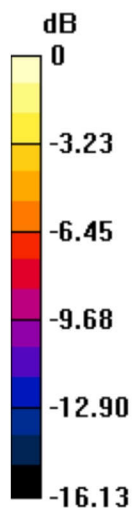
Ch1175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.461 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.273 W/kg



0 dB = 0.297 W/kg = -5.27 dBW/kg

07_LTE Band 13_10M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch23230

Communication System: UID 0, FDD_LTE (0); Frequency: 782 MHz; Duty Cycle: 1:1
Medium: HSL_750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.858 \text{ S/m}$; $\epsilon_r = 42.896$;
 $\rho = 1000 \text{ kg/m}^3$

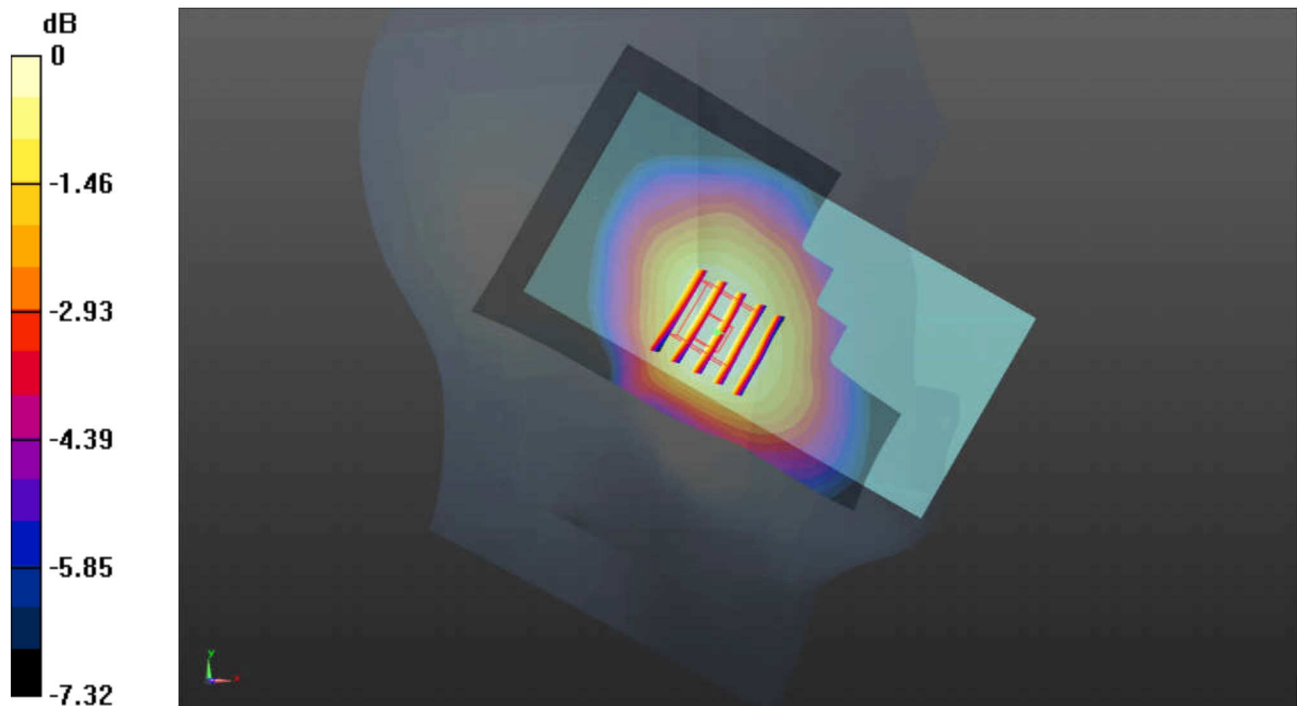
Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.6 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(10.72, 10.72, 10.72); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23230/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.229 W/kg

Ch23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.165 V/m ; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.246 W/kg
SAR(1 g) = 0.208 W/kg ; SAR(10 g) = 0.167 W/kg
Maximum value of SAR (measured) = 0.230 W/kg



0 dB = 0.229 W/kg = -6.40 dBW/kg

08_LTE Band 5_10M_QPSK_1RB_25Offset_Left Cheek_0mm_Ch20525

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used : $f = 836.5$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 42.186$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(10.2, 10.2, 10.2); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.290 W/kg

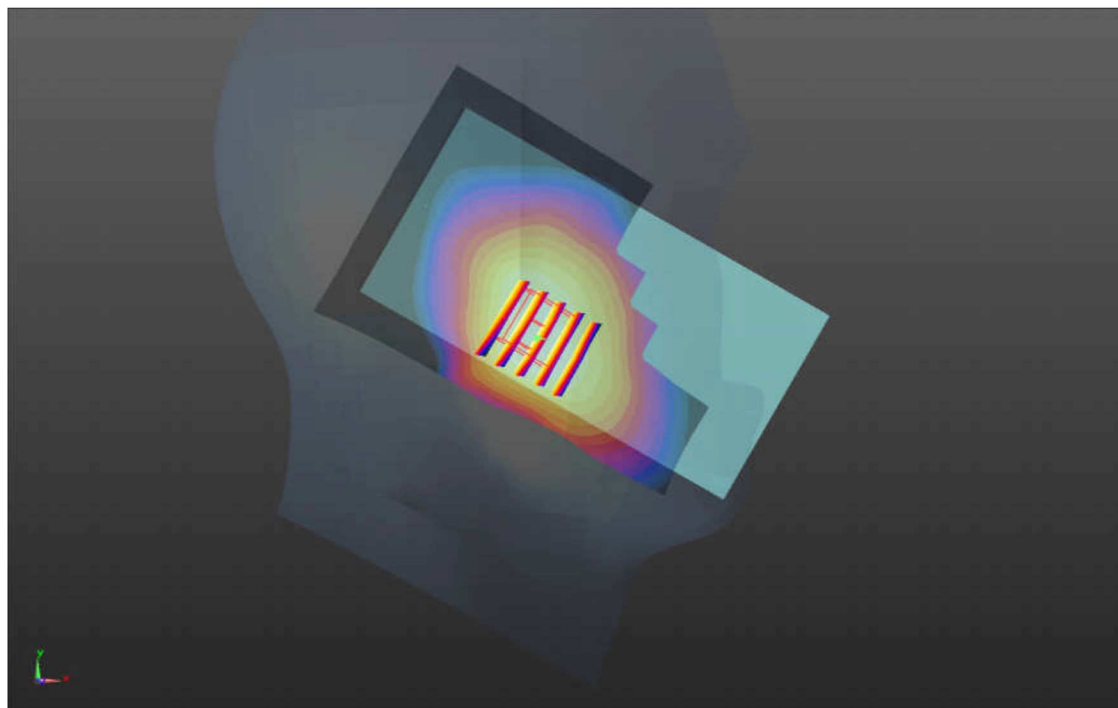
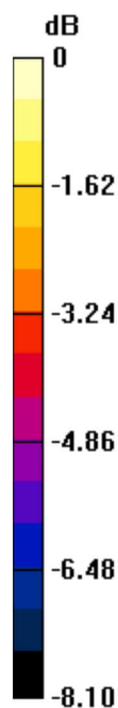
Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.979 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.318 W/kg

SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 0.291 W/kg



0 dB = 0.290 W/kg = -5.38 dBW/kg

09_LTE Band 66_20M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch132572

Communication System: UID 0, FDD_LTE (0); Frequency: 1770 MHz; Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.343$ S/m; $\epsilon_r = 39.111$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(8.65, 8.65, 8.65); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch132572/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.561 W/kg

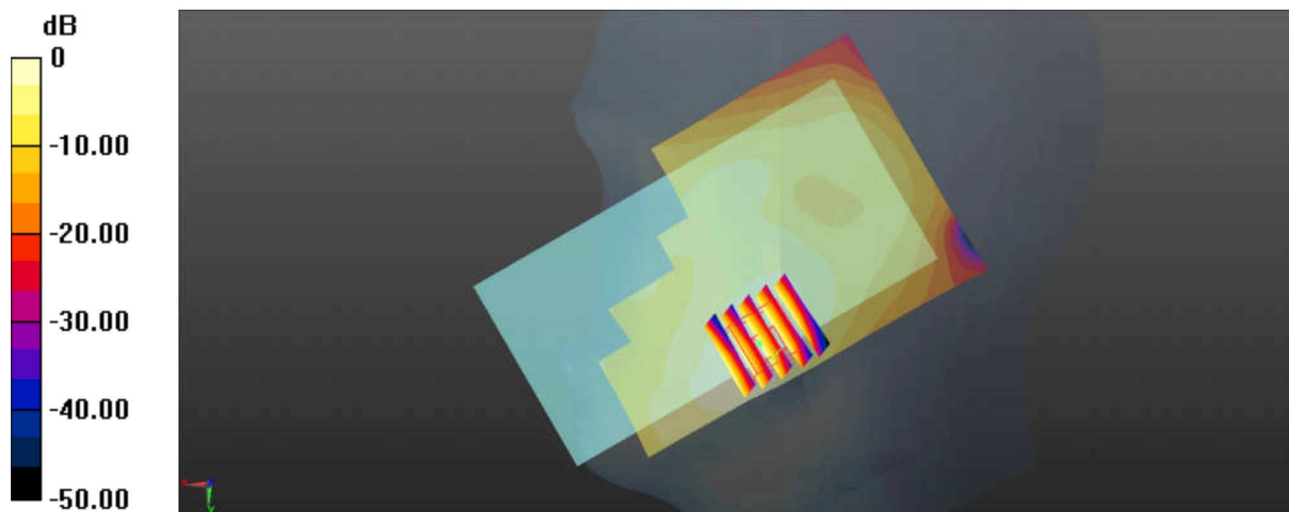
Ch132572/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.141 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.662 W/kg

SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.305 W/kg

Maximum value of SAR (measured) = 0.533 W/kg



0 dB = 0.561 W/kg = -2.51 dBW/kg

10_LTE Band 2_20M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch19100

Communication System: UID 0, FDD_LTE (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.573$;
 $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(8.41, 8.41, 8.41); Calibrated: 2018.1.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM3; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch19100/Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.331 W/kg

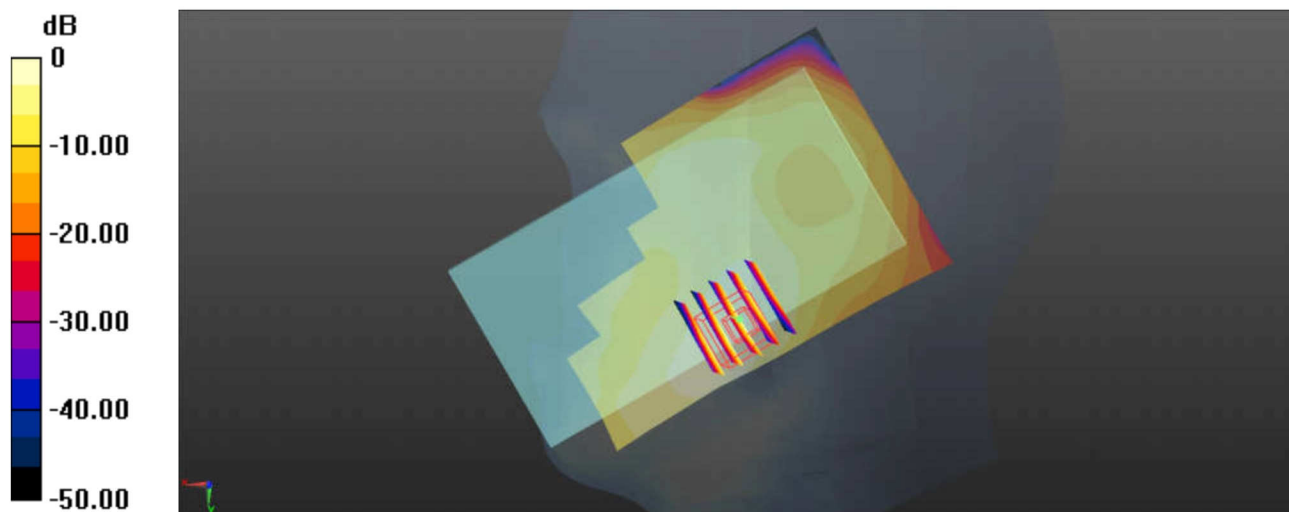
Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.173 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.410 W/kg

SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.347 W/kg



0 dB = 0.331 W/kg = -4.80 dBW/kg