

**Report Number:EED32K00215411**

**Appendix B:SAR Measurement results Plots**

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Test Laboratory: CTI SAR Lab

**MOBILE PHONE GSM850 190CH Right Hand Touch Cheek****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.923$  S/m;  $\epsilon_r = 40.819$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.51, 10.51, 10.51); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.234 W/kg

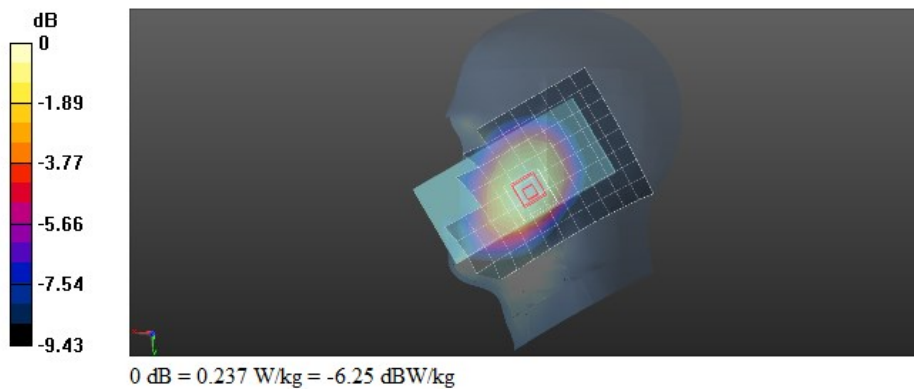
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.025 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.256 W/kg

**SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.154 W/kg**

Maximum value of SAR (measured) = 0.237 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE GSM850 128CH Back Side 15mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.957$  S/m;  $\epsilon_r = 54.46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.03, 10.03, 10.03); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.261 W/kg

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

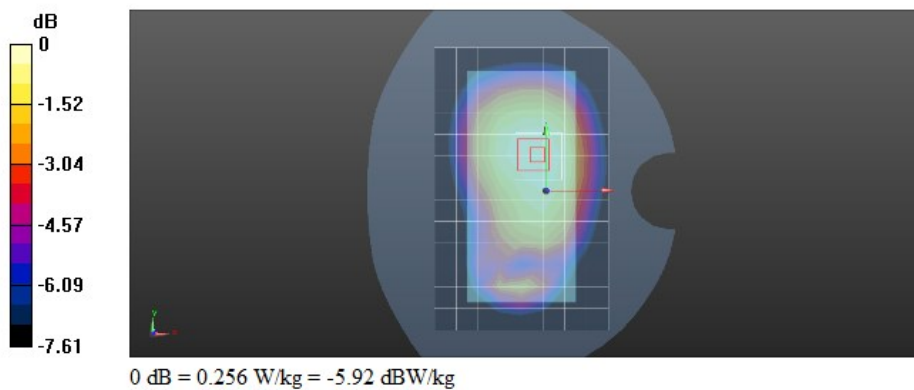
Reference Value = 13.53 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.164 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.256 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE GSM850 GPRS 4TS 190CH Back Side 10mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, GPRS 4TS (0); Communication System Band: GSM850 GPRS 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2.0797

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 54.385$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.03, 10.03, 10.03); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.577 W/kg

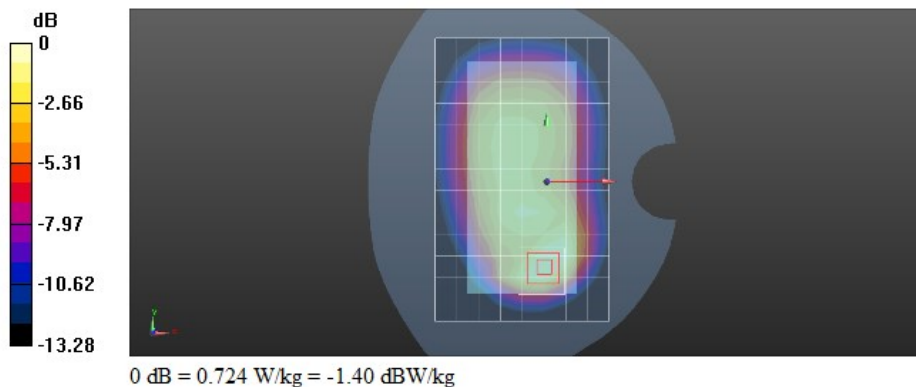
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 19.17 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.926 W/kg

**SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.302 W/kg**

Maximum value of SAR (measured) = 0.724 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE GSM1900 512CH Left Hand Touch Cheek****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.346$  S/m;  $\epsilon_r = 39.564$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.26, 8.26, 8.26); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.195 W/kg

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

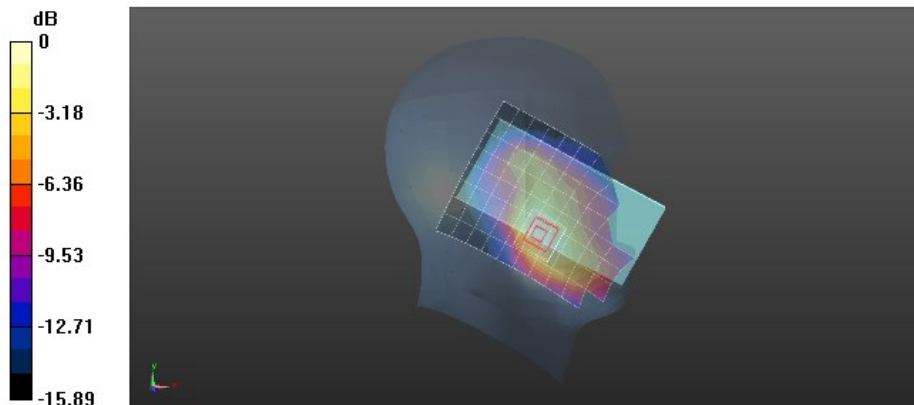
Reference Value = 3.090 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.225 W/kg

**SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.100 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.199 W/kg



0 dB = 0.199 W/kg = -7.01 dBW/kg

Test Laboratory: CTI SAR Lab

**MOBILE PHONE GSM1900 661CH Back Side 15mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.525$  S/m;  $\epsilon_r = 52.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.97, 7.97, 7.97); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.201 W/kg

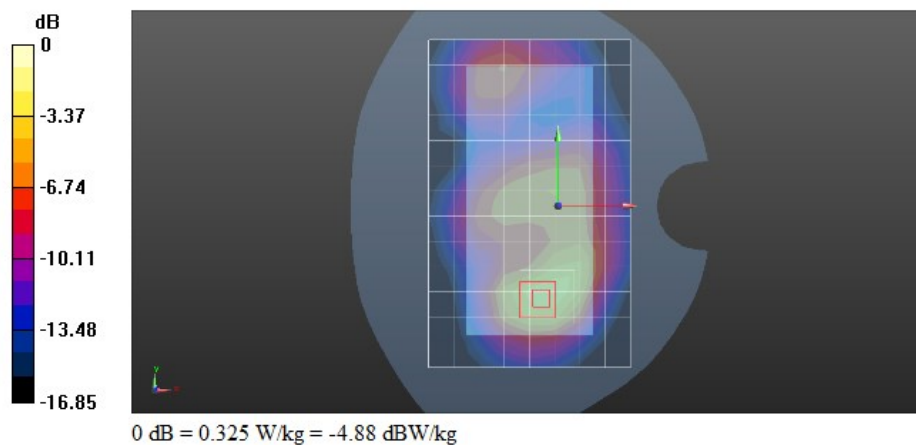
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.514 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.381 W/kg

**SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.136 W/kg**

Maximum value of SAR (measured) = 0.325 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE GSM1900 661CH Back Side 10mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, GPRS 4TS (0); Communication System Band: GSM1900 GPRS 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2.0797

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.525$  S/m;  $\epsilon_r = 52.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.97, 7.97, 7.97); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.860 W/kg

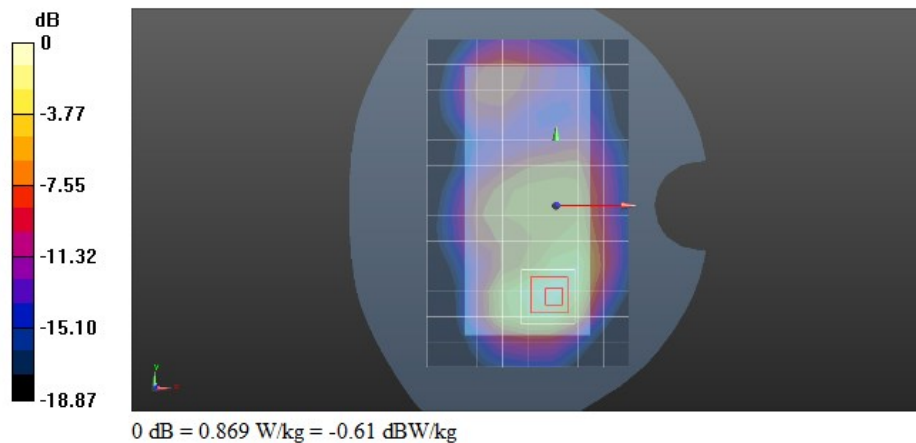
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.05 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.347 W/kg**

Maximum value of SAR (measured) = 0.869 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE UMTS Band II 9400H Left Hand Touch Cheek****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.375$  S/m;  $\epsilon_r = 39.402$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.26, 8.26, 8.26); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.404 W/kg

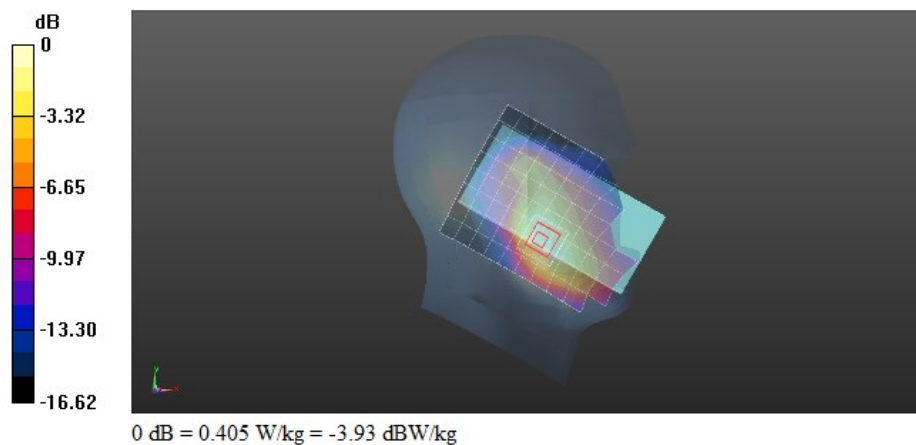
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.131 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.459 W/kg

**SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.200 W/kg**

Maximum value of SAR (measured) = 0.405 W/kg





Test Laboratory: CTI SAR Lab

**MOBILE PHONE UMTS Band II 9400H Back Side 15mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.525$  S/m;  $\epsilon_r = 52.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.97, 7.97, 7.97); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.459 W/kg

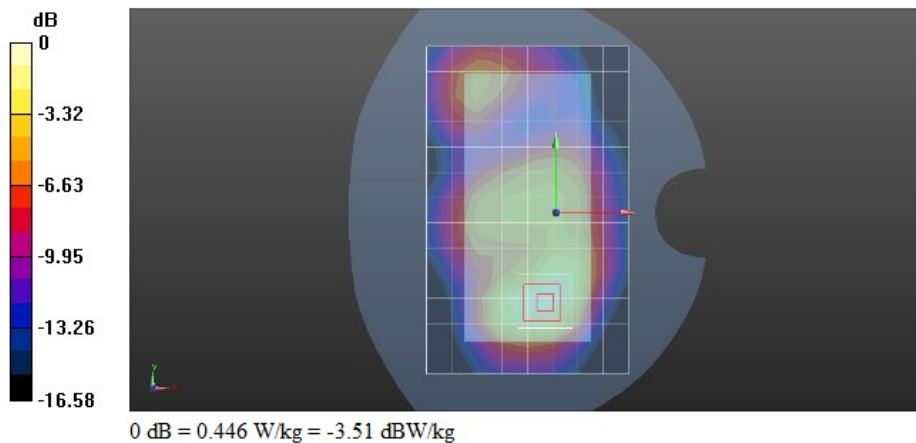
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.473 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.513 W/kg

**SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.197 W/kg**

Maximum value of SAR (measured) = 0.446 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE UMTS Band II 9400H Back Side 10mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.525$  S/m;  $\epsilon_r = 52.594$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.97, 7.97, 7.97); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.872 W/kg

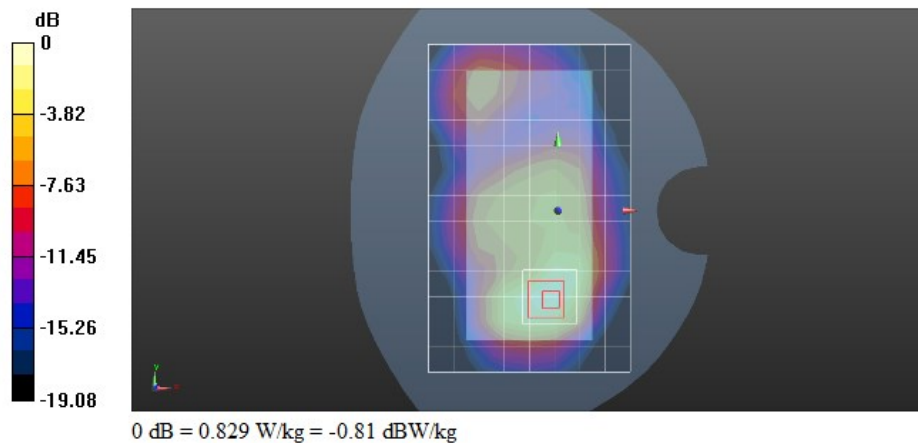
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.58 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.347 W/kg**

Maximum value of SAR (measured) = 0.829 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE UMTS Band IV 1513CH Left Hand Touch Cheek****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.329$  S/m;  $\epsilon_r = 39.301$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.57, 8.57, 8.57); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.248 W/kg

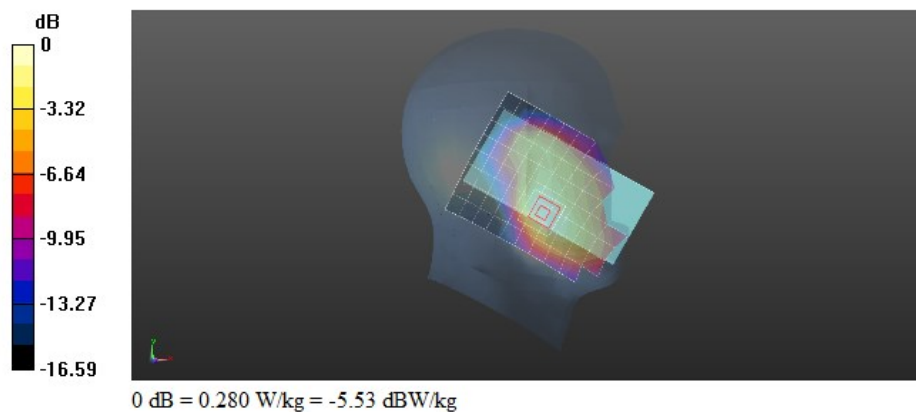
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.365 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.321 W/kg

**SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.136 W/kg**

Maximum value of SAR (measured) = 0.280 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE UMTS Band IV 1513CH Back Side 15mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.471$  S/m;  $\epsilon_r = 53.071$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.2, 8.2, 8.2); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.336 W/kg

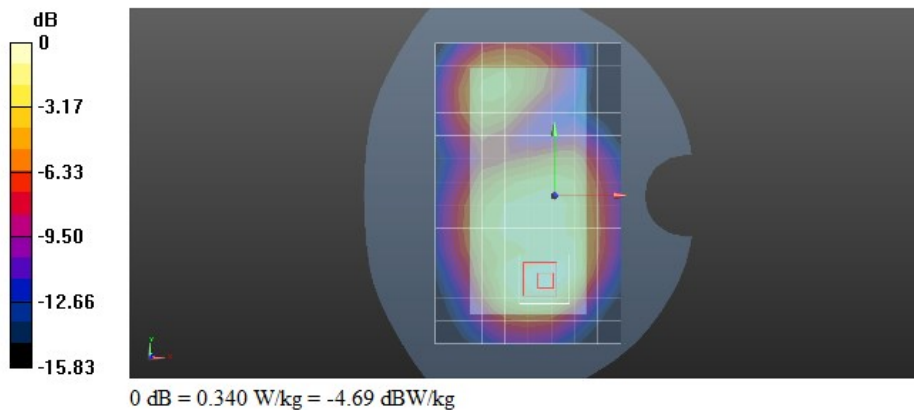
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.85 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.399 W/kg

**SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.157 W/kg**

Maximum value of SAR (measured) = 0.340 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE UMTS Band IV 1513CH Back Side 10mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.471$  S/m;  $\epsilon_r = 53.071$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.2, 8.2, 8.2); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.659 W/kg

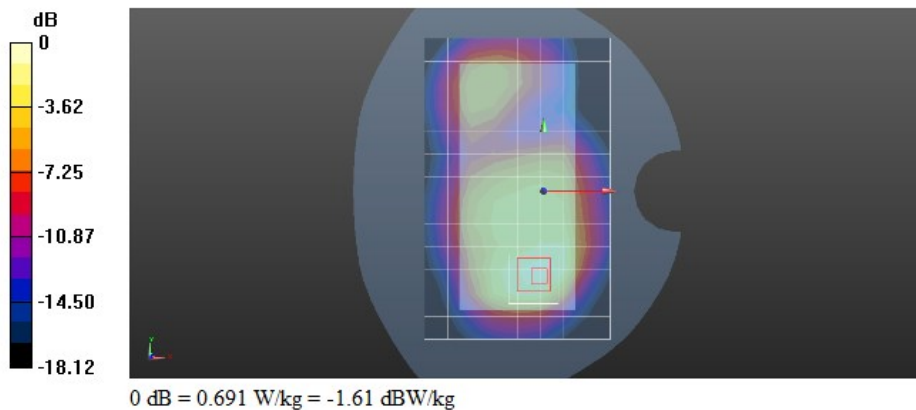
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.88 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.837 W/kg

**SAR(1 g) = 0.490 W/kg; SAR(10 g) = 0.298 W/kg**

Maximum value of SAR (measured) = 0.691 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE UMTS Band V 4132CH Right Hand Touch Cheek****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.916$  S/m;  $\epsilon_r = 40.901$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.51, 10.51, 10.51); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.243 W/kg

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

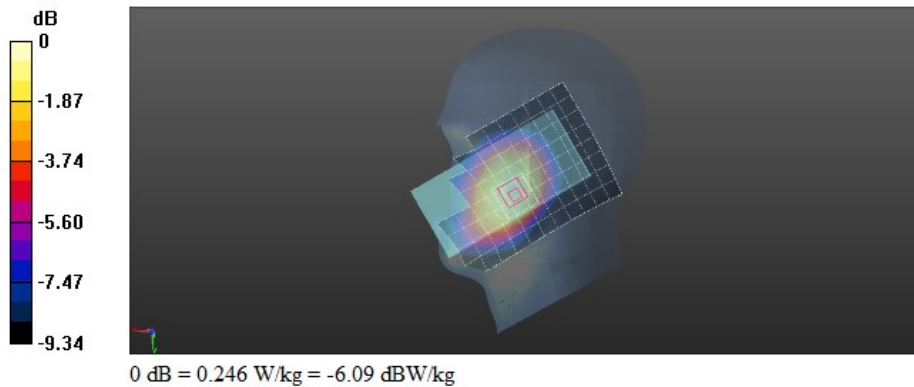
Reference Value = 3.979 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.266 W/kg

**SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.160 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.246 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE UMTS Band V 4132CH Back Side 15mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.957$  S/m;  $\epsilon_r = 54.435$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.03, 10.03, 10.03); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.298 W/kg

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

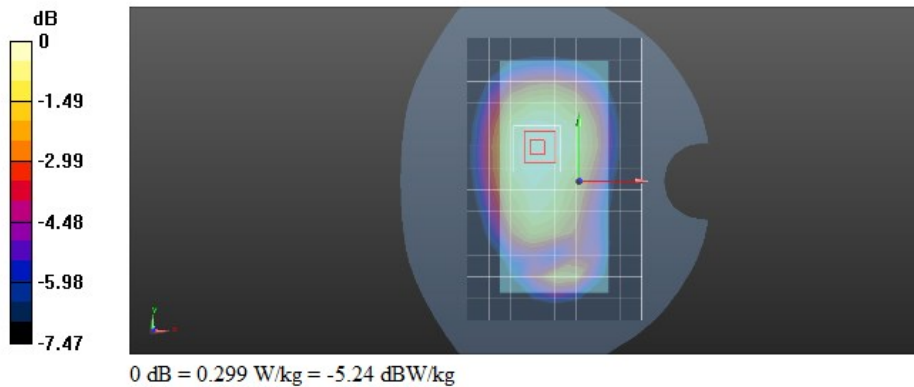
Reference Value = 14.81 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.326 W/kg

**SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.191 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.299 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE UMTS Band V 4132CH Back Side 10mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.957$  S/m;  $\epsilon_r = 54.435$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.03, 10.03, 10.03); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.422 W/kg

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

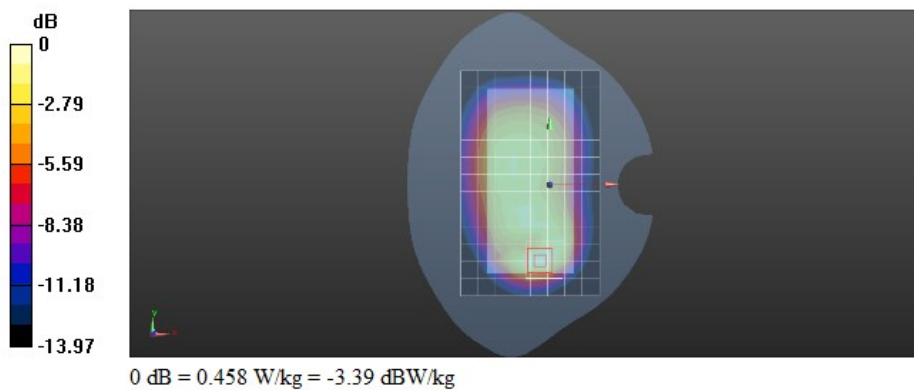
Reference Value = 15.34 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.553 W/kg

**SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.178 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.458 W/kg





Test Laboratory: CTI SAR Lab

**MOBILE PHONE LTE Band 2 20M QPSK 1RB#50 19100CH Left Hand Touch Cheek****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.404$  S/m;  $\epsilon_r = 39.267$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.26, 8.26, 8.26); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.341 W/kg

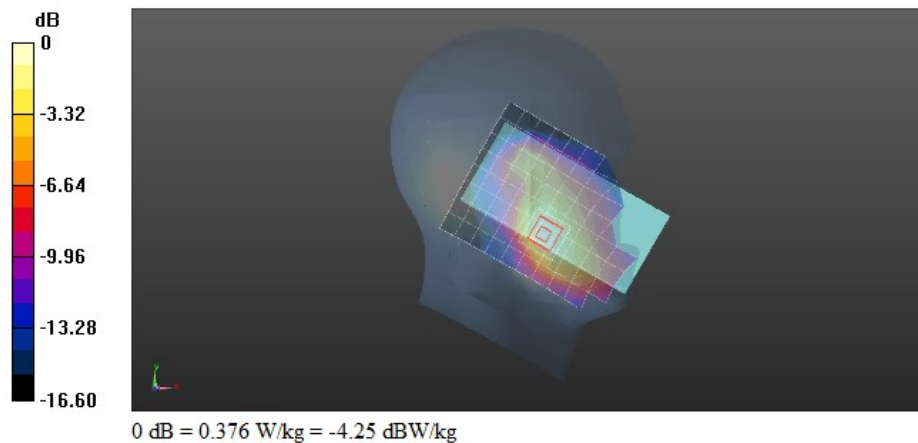
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.025 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.426 W/kg

**SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.182 W/kg**

Maximum value of SAR (measured) = 0.376 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE LTE Band 2 20M QPSK 1RB#50 19100CH Back Side 15mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.55$  S/m;  $\epsilon_r = 52.514$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.97, 7.97, 7.97); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.434 W/kg

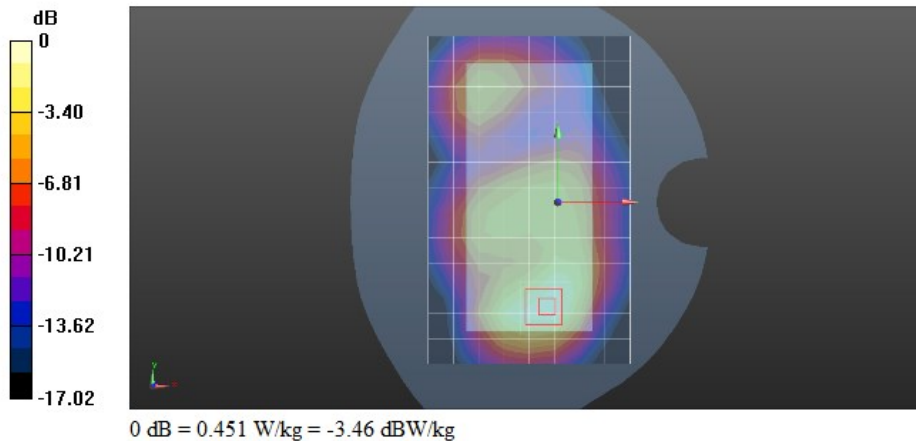
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.849 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.519 W/kg

SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.197 W/kg

Maximum value of SAR (measured) = 0.451 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE LTE Band 2 20M QPSK 1RB#50 18700CH Back Side 10mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.499$  S/m;  $\epsilon_r = 52.681$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.97, 7.97, 7.97); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.933 W/kg

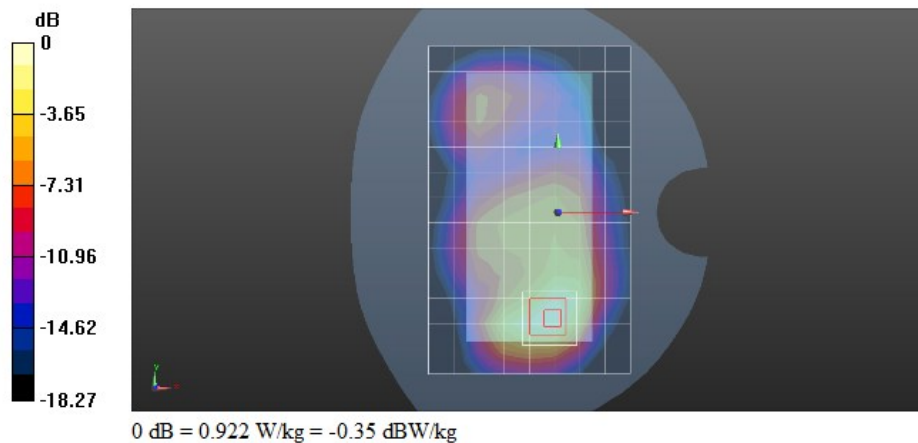
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.62 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.375 W/kg**

Maximum value of SAR (measured) = 0.922 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE LTE Band 4 20M QPSK 1RB#50 20300CH Left Hand Touch Cheek****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.327$  S/m;  $\epsilon_r = 39.32$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.57, 8.57, 8.57); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.204 W/kg

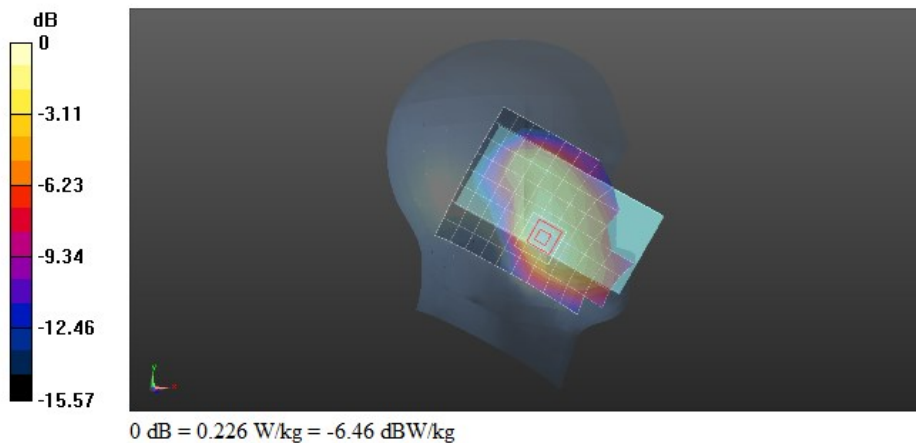
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.178 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.111 W/kg

Maximum value of SAR (measured) = 0.226 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE LTE Band 4 20M QPSK 1RB#50 20300CH Back Side 15mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.458$  S/m;  $\epsilon_r = 53.106$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.2, 8.2, 8.2); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.310 W/kg

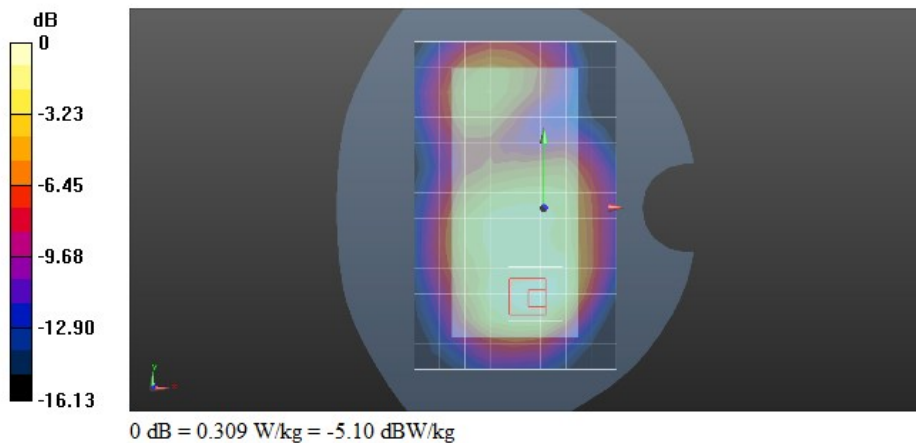
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.34 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.363 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 0.309 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE LTE Band 4 20M QPSK 1RB#50 20300CH Back Side 10mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.458$  S/m;  $\epsilon_r = 53.106$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.2, 8.2, 8.2); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.670 W/kg

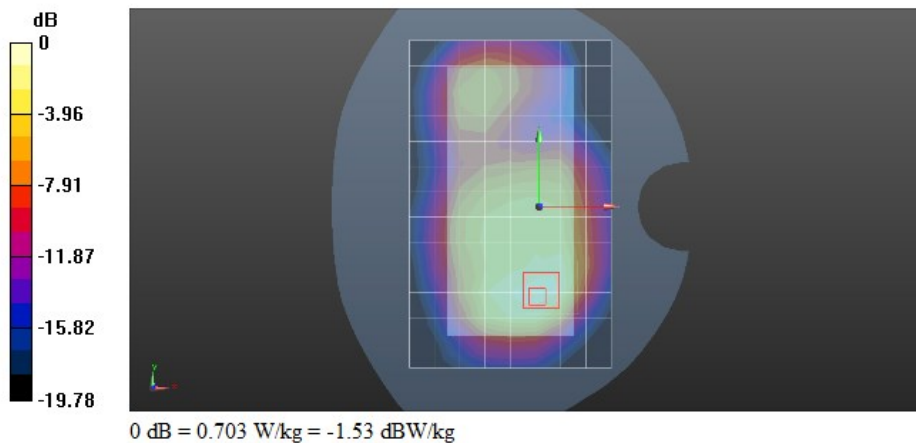
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.85 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.848 W/kg

**SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.292 W/kg**

Maximum value of SAR (measured) = 0.703 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE LTE Band 5 10M QPSK 1RB#25 20600CH Right Hand Touch Cheek****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844$  MHz;  $\sigma = 0.927$  S/m;  $\epsilon_r = 40.83$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.51, 10.51, 10.51); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.199 W/kg

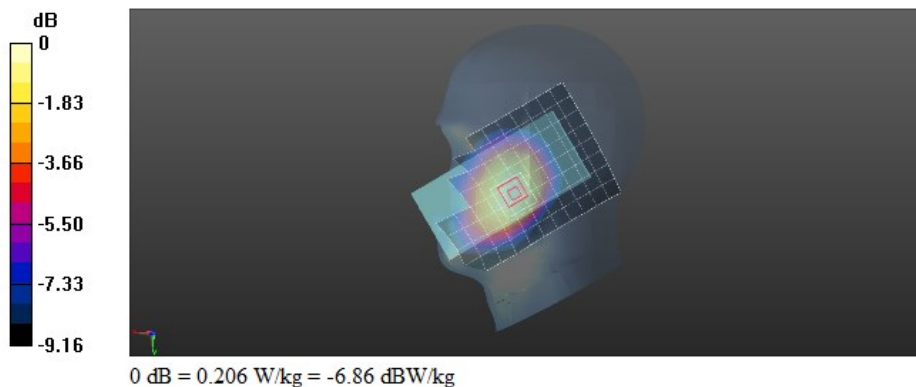
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.287 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.223 W/kg

**SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.132 W/kg**

Maximum value of SAR (measured) = 0.206 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE LTE Band 5 10M QPSK 1RB#25 20450CH Back Side 15mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 829 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $f = 829$  MHz;  $\sigma = 0.976$  S/m;  $\epsilon_r = 53.535$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.03, 10.03, 10.03); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.234 W/kg

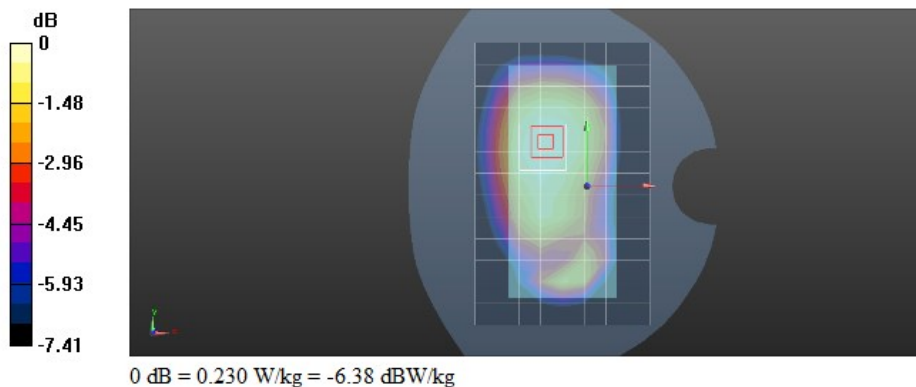
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.39 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.251 W/kg

**SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.149 W/kg**

Maximum value of SAR (measured) = 0.230 W/kg





Test Laboratory: CTI SAR Lab

**MOBILE PHONE LTE Band 5 10M QPSK 1RB#25 20450CH Back Side 10mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.981$  S/m;  $\epsilon_r = 53.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.03, 10.03, 10.03); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.438 W/kg

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

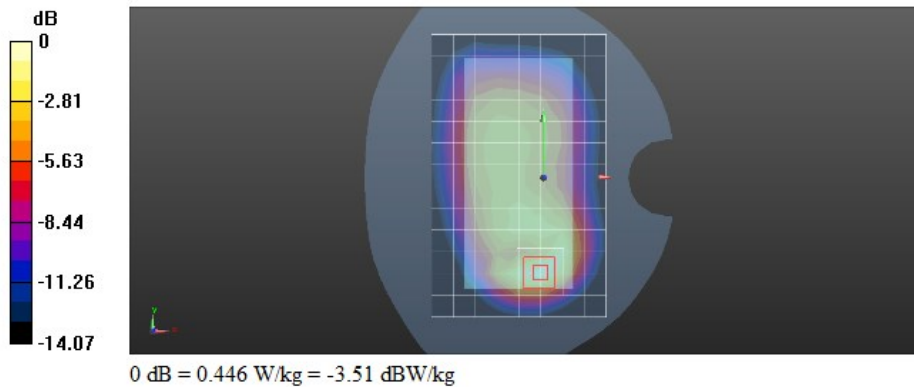
Reference Value = 12.99 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.529 W/kg

SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.169 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.446 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE WiFi 802.11b 11CH Right Hand Touch Cheek****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.86$  S/m;  $\epsilon_r = 39.106$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.49, 7.49, 7.49); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 1.33 W/kg

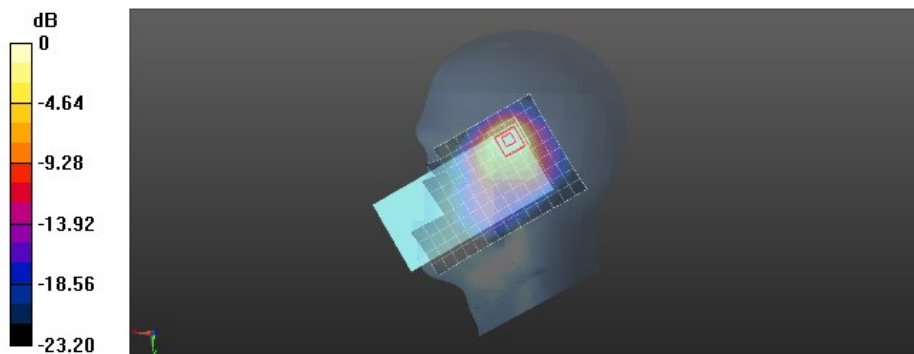
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 12.56 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.458 W/kg**

Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.41 W/kg = 1.49 dBW/kg

Test Laboratory: CTI SAR Lab

**MOBILE PHONE WiFi 802.11b 11CH Back Side 15mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.985$  S/m;  $\epsilon_r = 52.056$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.69, 7.69, 7.69); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x18x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.232 W/kg

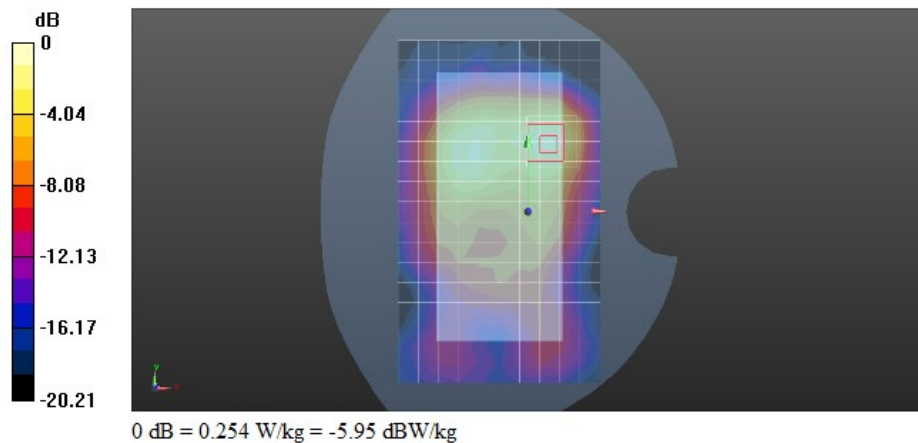
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.260 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.318 W/kg

**SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.084 W/kg**

Maximum value of SAR (measured) = 0.254 W/kg



Test Laboratory: CTI SAR Lab

**MOBILE PHONE WiFi 802.11b 11CH Back Side 10mm****DUT: MOBILE PHONE; Type: IO Pro; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.985$  S/m;  $\epsilon_r = 52.056$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.69, 7.69, 7.69); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x18x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.431 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.006 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.611 W/kg

**SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.150 W/kg**

Maximum value of SAR (measured) = 0.476 W/kg

