

Appendix B:SAR Measurement results Plots

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Test Laboratory: CTI SAR Lab

GSM850 251CH Right Hand Touch Cheek**DUT: 4G LTE smart phone ; Type: NA; Serial: NA**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 848.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 849$ MHz; $\sigma = 0.928$ S/m; $\epsilon_r = 40.56$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.06, 10.06, 10.06); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.269 W/kg

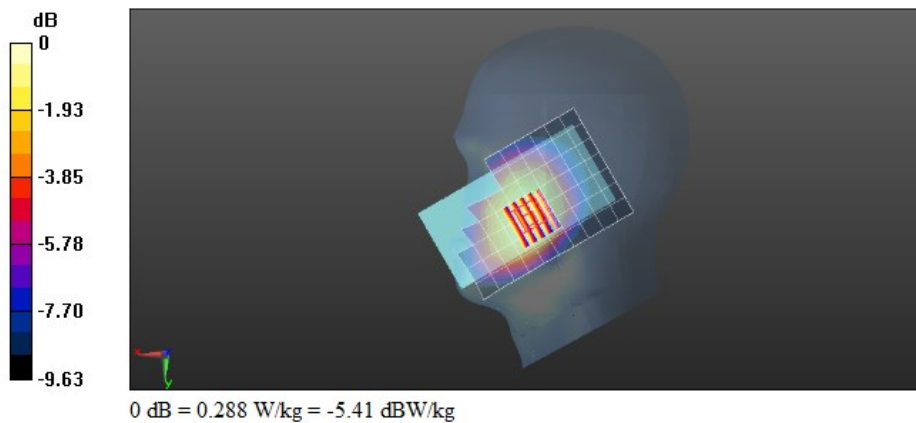
Configuration/Head/Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.914 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 0.288 W/kg



Test Laboratory: CTI SAR Lab

GSM850 128CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 0.91$ S/m; $\epsilon_r = 40.751$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.06, 10.06, 10.06); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.373 W/kg

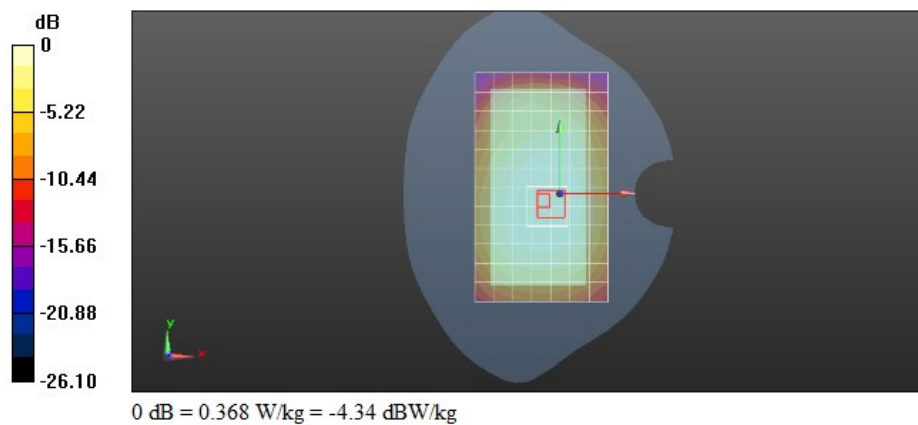
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 0.9990 V/m; Power Drift = -1.24 dB

Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.255 W/kg

Maximum value of SAR (measured) = 0.368 W/kg



Test Laboratory: CTI SAR Lab

GSM850 GPRS 4TS 190CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 0.92$ S/m; $\epsilon_r = 40.655$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.06, 10.06, 10.06); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.699 W/kg

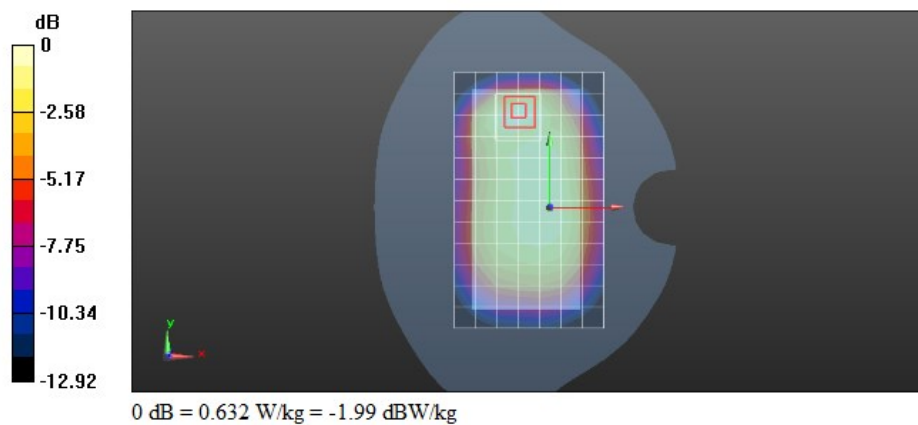
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 22.92 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.850 W/kg

SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.252 W/kg

Maximum value of SAR (measured) = 0.632 W/kg



Test Laboratory: CTI SAR Lab

GSM1900 512CH Left Hand Touch Cheek

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 1.365$ S/m; $\epsilon_r = 39.508$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.15, 8.15, 8.15); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.187 W/kg

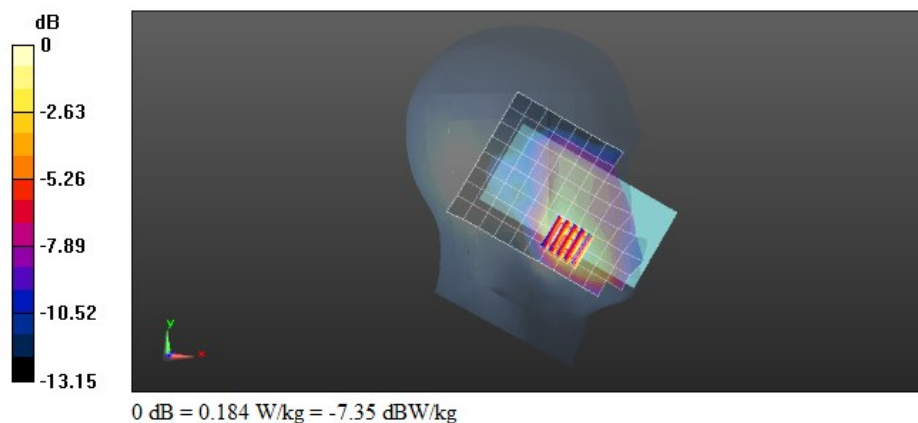
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.075 V/m; Power Drift = -0.37 dB

Peak SAR (extrapolated) = 0.204 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.097 W/kg

Maximum value of SAR (measured) = 0.184 W/kg



Test Laboratory: CTI SAR Lab

GSM1900 810CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.434$ S/m; $\epsilon_r = 39.358$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.15, 8.15, 8.15); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.245 W/kg

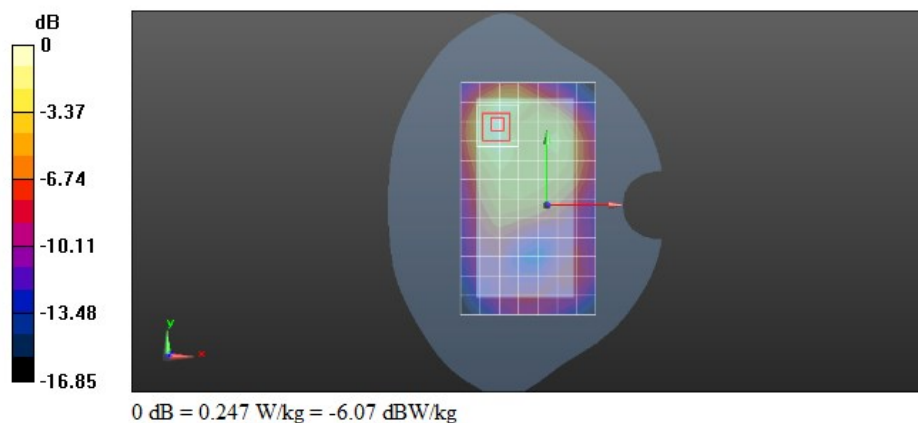
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.428 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.290 W/kg

SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.097 W/kg

Maximum value of SAR (measured) = 0.247 W/kg



Test Laboratory: CTI SAR Lab

GSM1900 GPRS 4TS 661CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 1.401$ S/m; $\epsilon_r = 39.402$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.15, 8.15, 8.15); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.801 W/kg

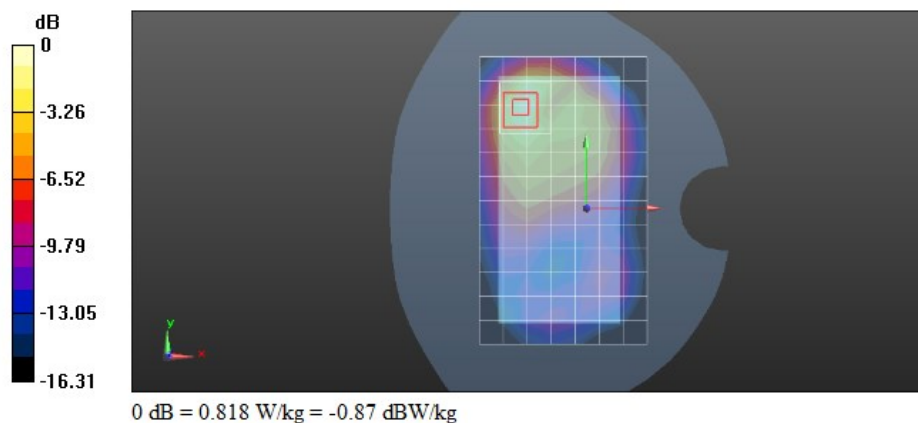
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.31 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.987 W/kg

SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.303 W/kg

Maximum value of SAR (measured) = 0.818 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band II 9538CH Left Hand Touch Cheek

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 39.276$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.15, 8.15, 8.15); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

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

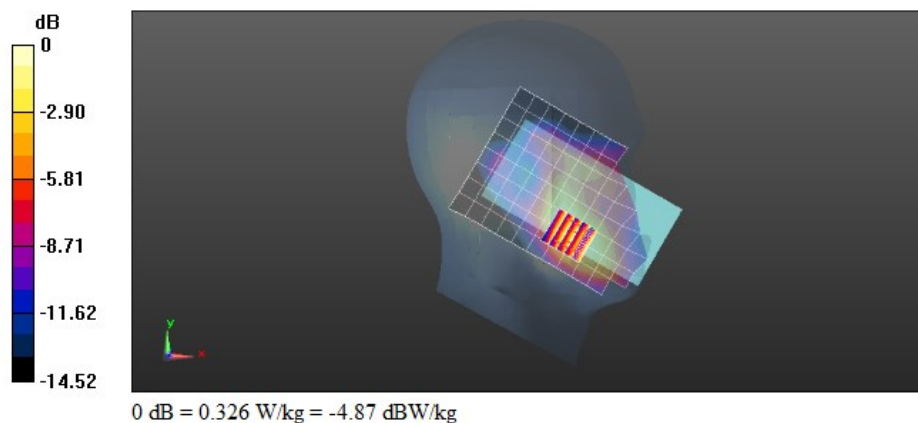
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.977 V/m; Power Drift = 0.34 dB

Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.326 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band II 9538CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 39.276$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.15, 8.15, 8.15); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

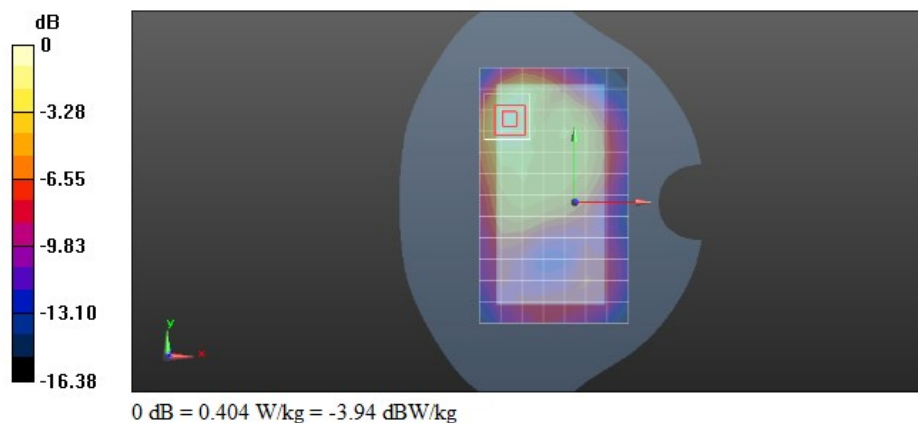
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.39 V/m; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 0.483 W/kg

SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.165 W/kg

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



Test Laboratory: CTI SAR Lab

UMTS Band II 9538CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.43 \text{ S/m}$; $\epsilon_r = 39.276$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.15, 8.15, 8.15); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.711 W/kg

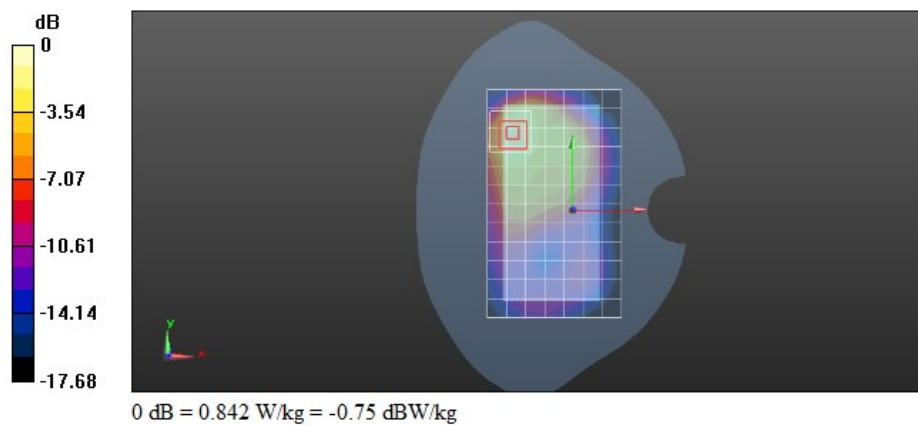
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.18 V/m ; Power Drift = -0.23 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.582 W/kg ; SAR(10 g) = 0.316 W/kg

Maximum value of SAR (measured) = 0.842 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band V 4132CH Right Hand Touch Cheek

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 0.921$ S/m; $\epsilon_r = 41.581$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.06, 10.06, 10.06); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.194 W/kg

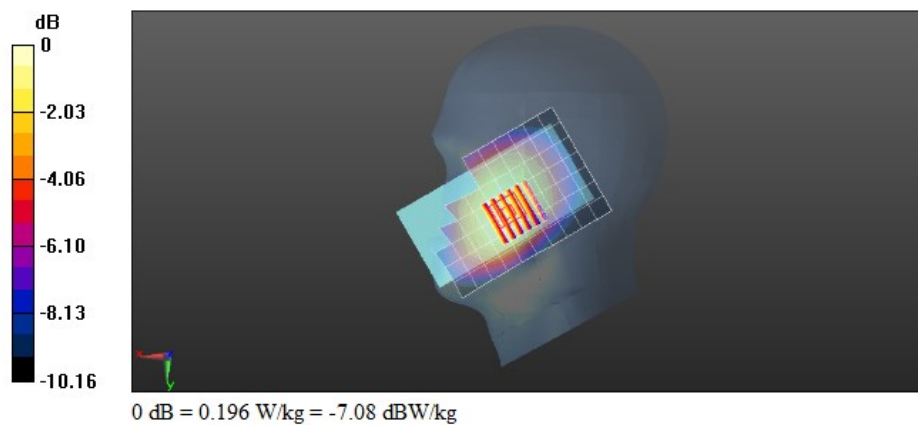
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.907 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.196 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band V 4132CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 0.921$ S/m; $\epsilon_r = 41.581$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.06, 10.06, 10.06); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.320 W/kg

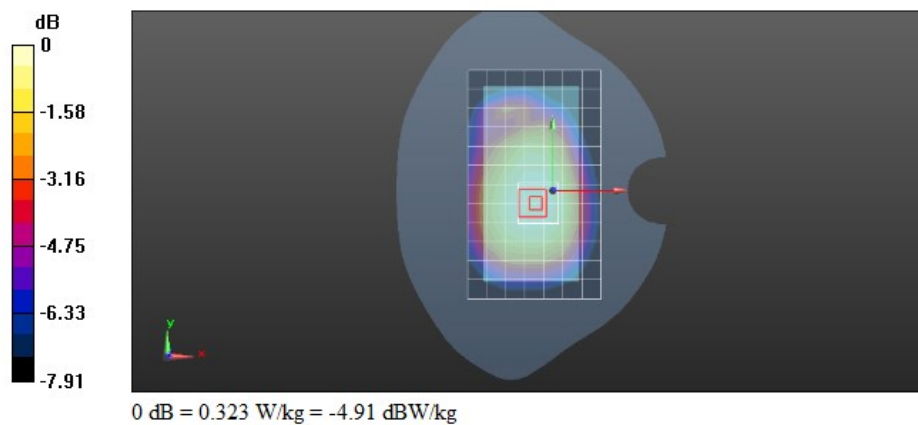
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.10 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 0.323 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band V 4132CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 0.921$ S/m; $\epsilon_r = 41.581$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.06, 10.06, 10.06); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.362 W/kg

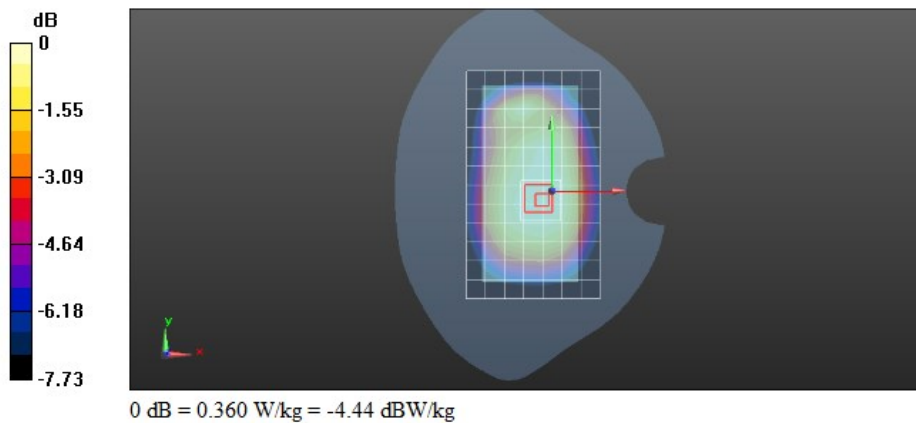
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.86 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.398 W/kg

SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.360 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 2 20M QPSK 1RB50 18900CH Left Hand Touch Cheek

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 39.383$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.15, 8.15, 8.15); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.184 W/kg

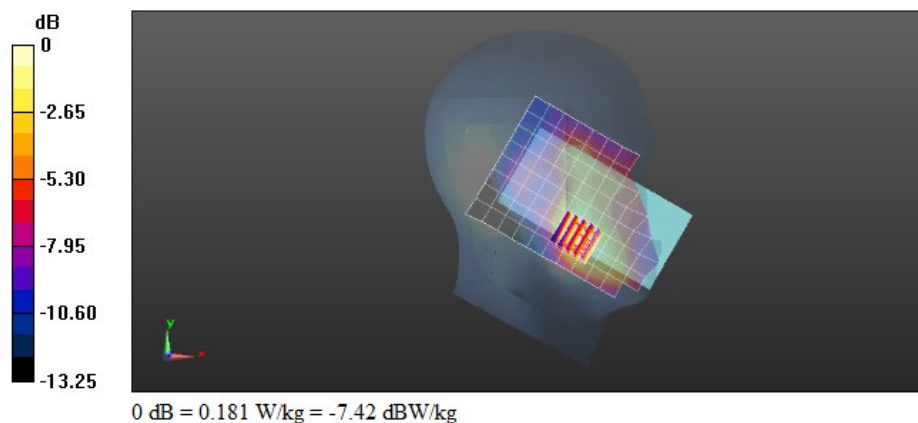
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.582 V/m; Power Drift = 0.39 dB

Peak SAR (extrapolated) = 0.203 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.181 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 2 20M QPSK 1RB50 18900CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 39.383$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.15, 8.15, 8.15); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.217 W/kg

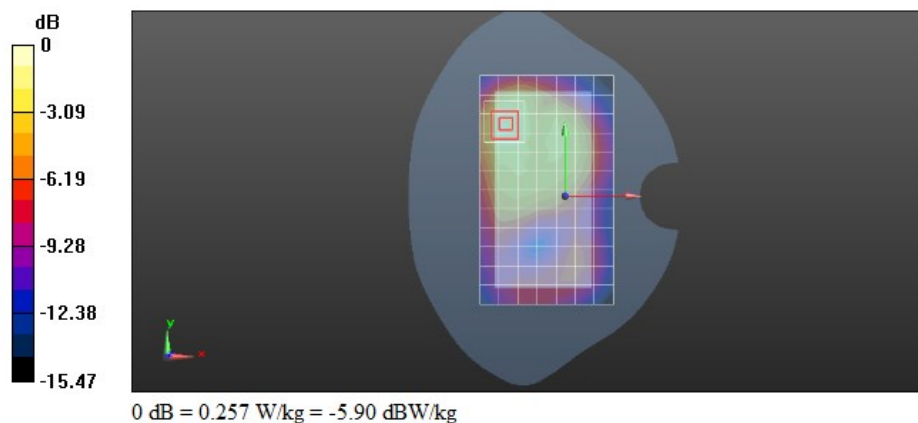
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.369 V/m; Power Drift = -0.23 dB

Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.257 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 2 20M QPSK 50RB50 18900CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 39.383$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.15, 8.15, 8.15); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.594 W/kg

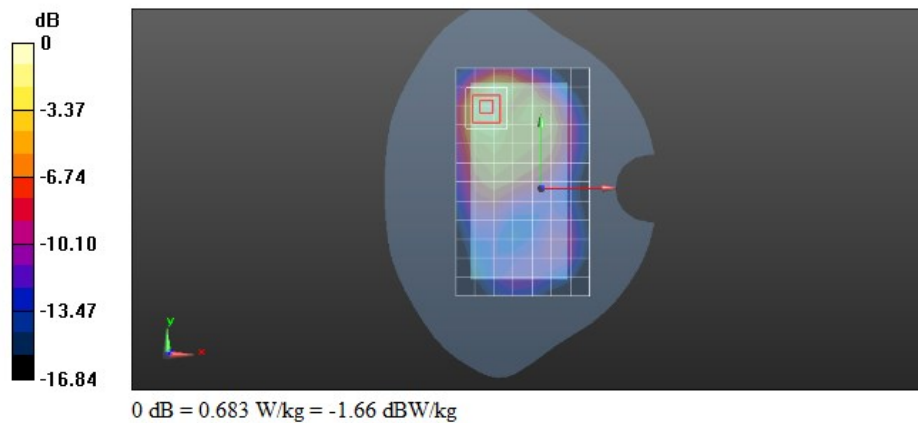
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.079 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.810 W/kg

SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.245 W/kg

Maximum value of SAR (measured) = 0.683 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 4 20M QPSK 50RB25 20175CH Left Hand Touch Cheek

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.327$ S/m; $\epsilon_r = 40.171$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.5, 8.5, 8.5); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.302 W/kg

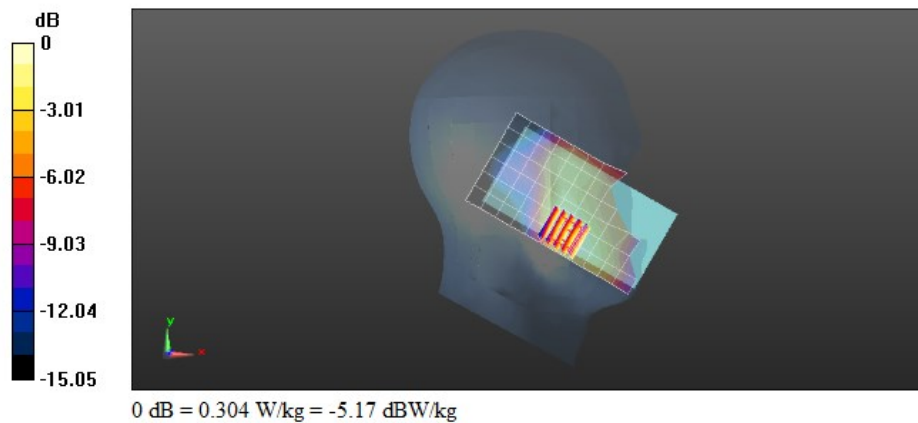
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.062 V/m; Power Drift = 0.56 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 0.304 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 4 20M QPSK 1RB50 20175CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.327$ S/m; $\epsilon_r = 40.171$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.5, 8.5, 8.5); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.441 W/kg

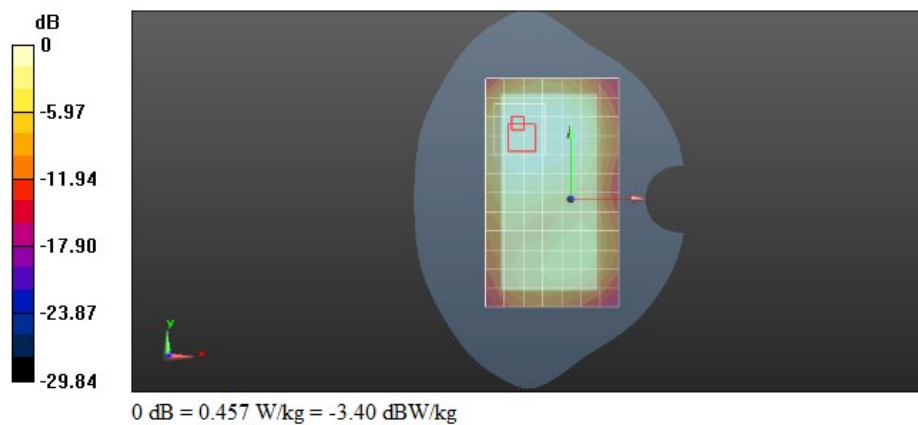
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.405 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.337 W/kg; SAR(10 g) = 0.215 W/kg

Maximum value of SAR (measured) = 0.457 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 4 20M QPSK 1RB50 20175CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.327$ S/m; $\epsilon_r = 40.171$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.5, 8.5, 8.5); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.877 W/kg

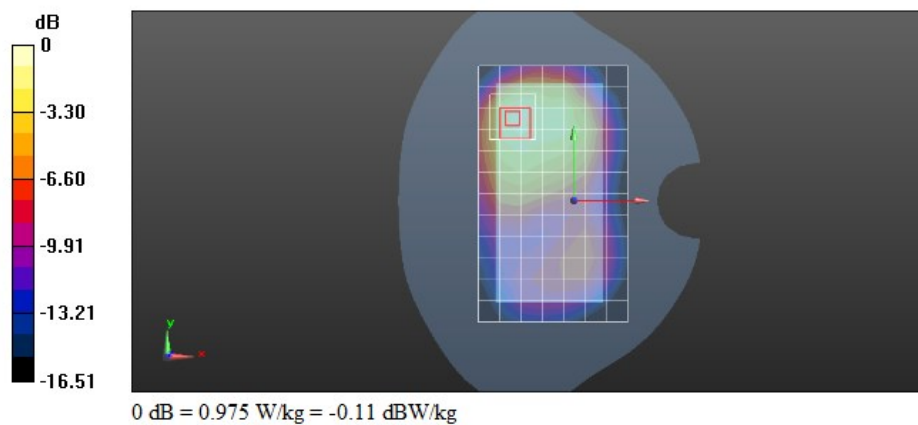
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.52 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.675 W/kg; SAR(10 g) = 0.400 W/kg

Maximum value of SAR (measured) = 0.975 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 5 10M QPSK 25RB25 20450CH Right Hand Touch Cheek**DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 0.922$ S/m; $\epsilon_r = 41.546$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.06, 10.06, 10.06); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.187 W/kg

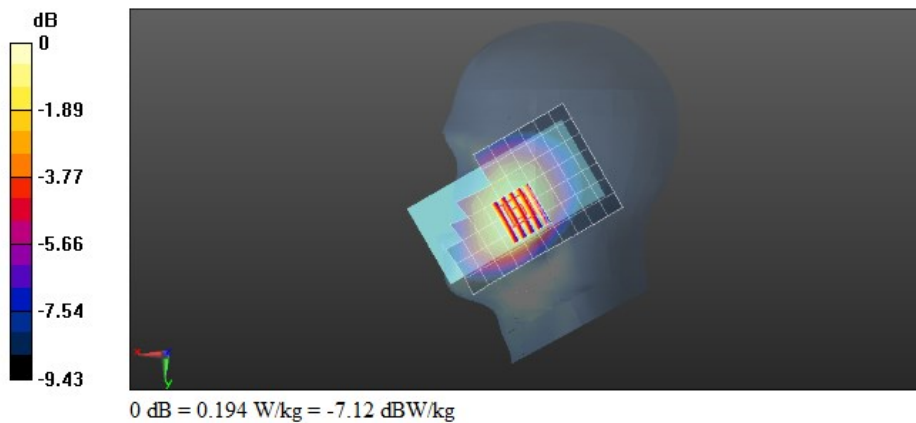
Configuration/Head/Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.613 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.194 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 5 10M QPSK 1RB25 20450CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 0.922$ S/m; $\epsilon_r = 41.546$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.06, 10.06, 10.06); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.284 W/kg

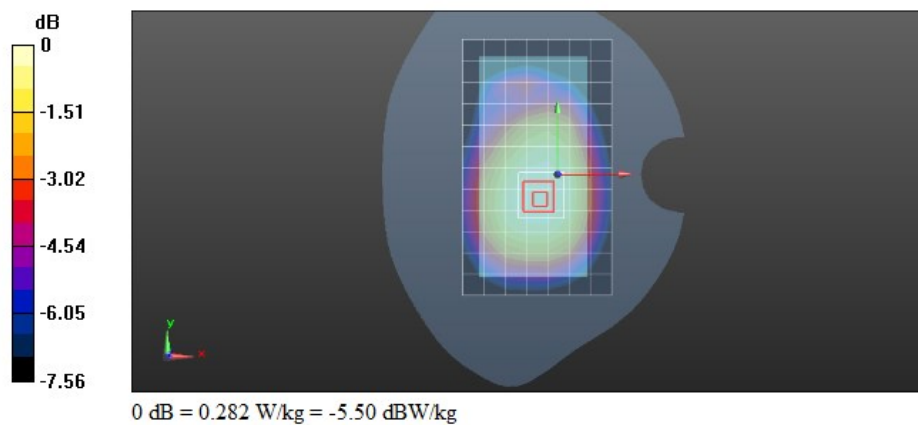
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.55 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.232 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.282 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 5 10M QPSK 1RB25 20525CH Right Side 10mm

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 0.928$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.06, 10.06, 10.06); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (6x14x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.263 W/kg

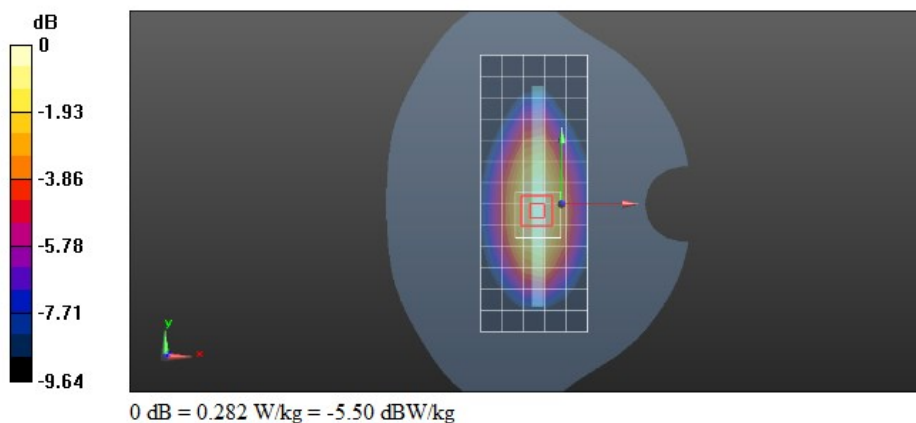
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.88 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.325 W/kg

SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.282 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 7 20M QPSK 50RB25 21350CH Left Hand Touch Cheek

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.971$ S/m; $\epsilon_r = 37.784$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.3, 7.3, 7.3); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.365 W/kg

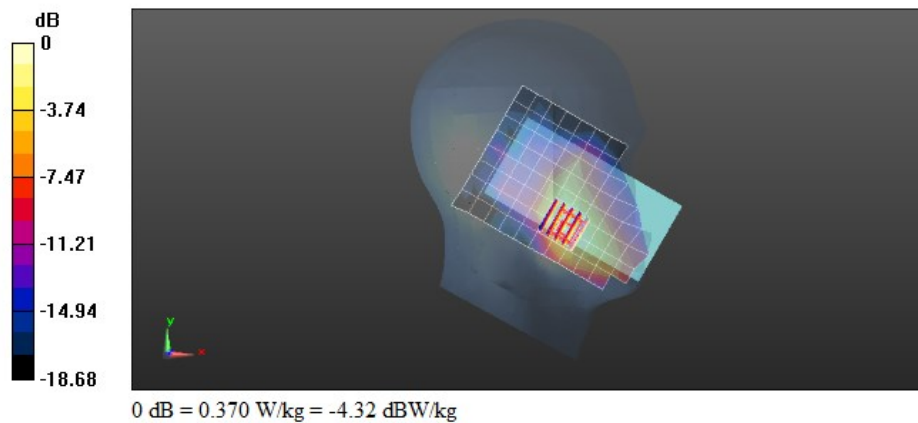
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.153 V/m; Power Drift = 1.17 dB

Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.152 W/kg

Maximum value of SAR (measured) = 0.370 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 7 20M QPSK 1RB50 21100CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.946$ S/m; $\epsilon_r = 37.754$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.67, 7.67, 7.67); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.241 W/kg

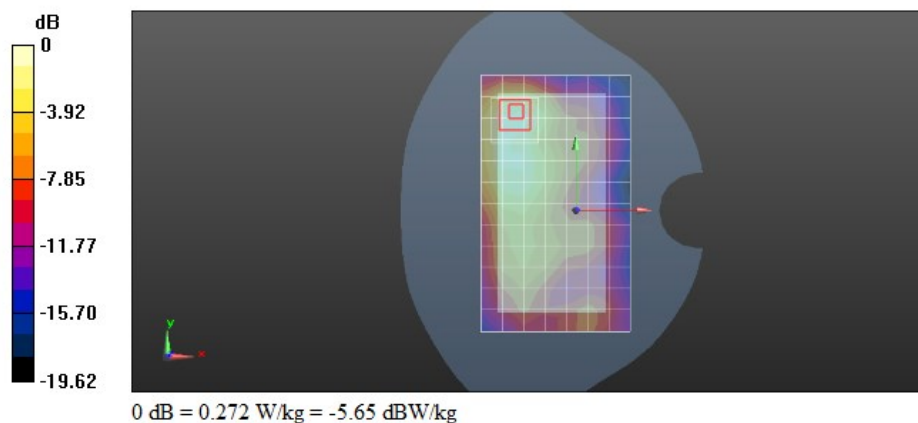
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.889 V/m; Power Drift = -0.51 dB

Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.272 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 7 20M QPSK 50RB25 21350CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.971$ S/m; $\epsilon_r = 37.784$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.3, 7.3, 7.3); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.548 W/kg

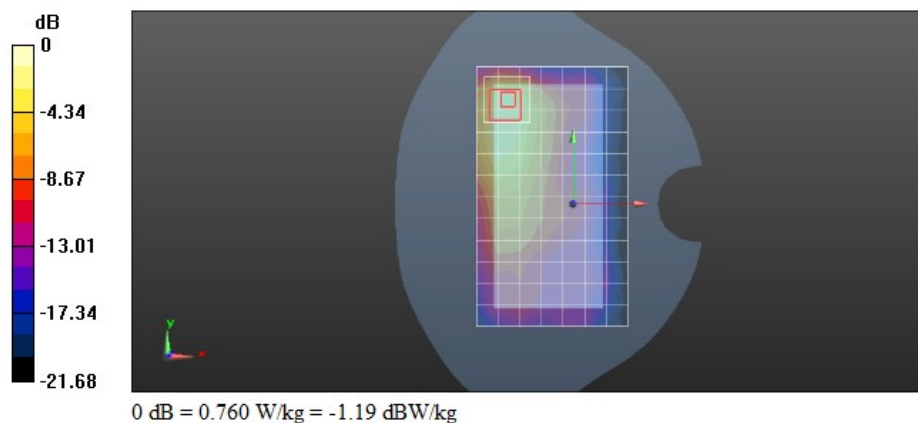
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.570 V/m; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 0.946 W/kg

SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 0.760 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 12 10M QPSK 1RB25 23095CH Right Hand Touch Cheek

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.828$ S/m; $\epsilon_r = 43.288$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN7591; ConvF(10, 10, 10); Calibrated: 8/12/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.132 W/kg

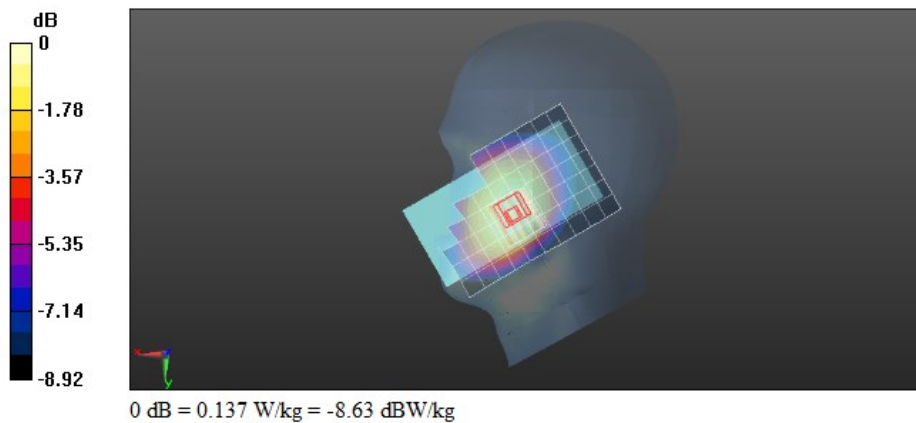
Configuration/Head/Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.397 V/m; Power Drift = -0.29 dB

Peak SAR (extrapolated) = 0.150 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.092 W/kg

Maximum value of SAR (measured) = 0.137 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 12 10M QPSK 1RB25 23095CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.828$ S/m; $\epsilon_r = 43.288$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7591; ConvF(10, 10, 10); Calibrated: 8/12/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

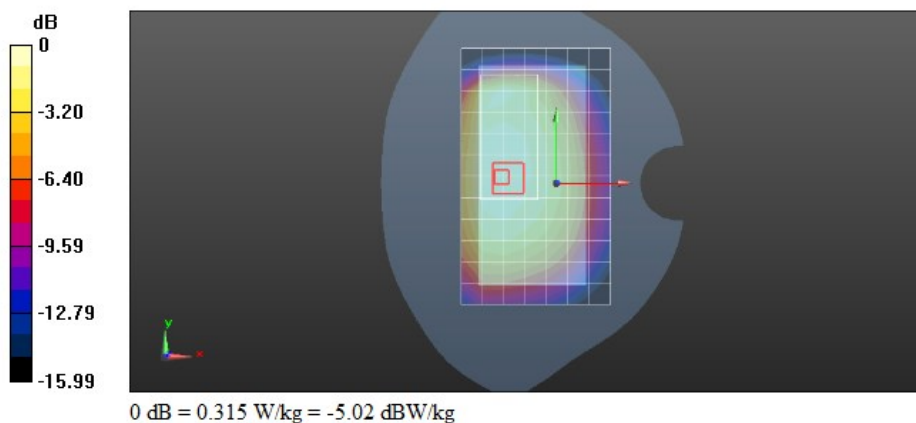
Configuration/Head/Zoom Scan (6x12x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 17.87 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.315 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 12 10M QPSK 25RB25 23095CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.828$ S/m; $\epsilon_r = 43.303$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7591; ConvF(10, 10, 10); Calibrated: 8/12/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.274 W/kg

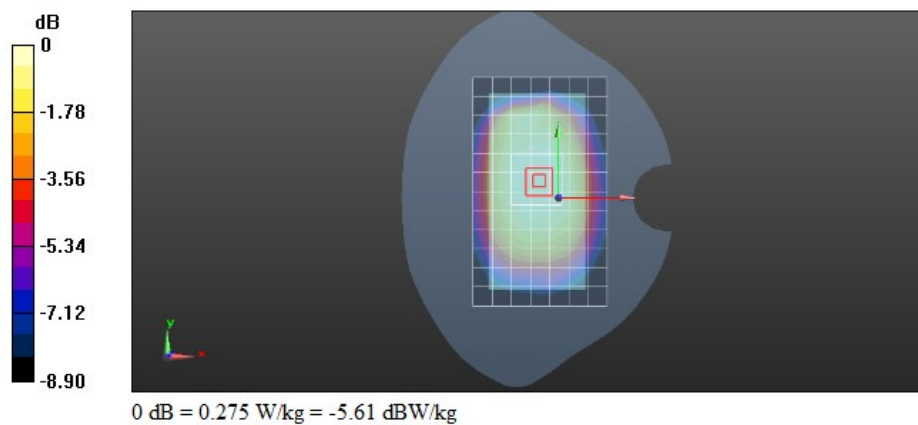
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 18.95 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 0.275 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 41 20M QPSK 1RB50 40620CH Left Hand Touch Cheek

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2593 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 2.048$ S/m; $\epsilon_r = 38.354$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.3, 7.3, 7.3); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

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

Maximum value of SAR (measured) = 0.225 W/kg

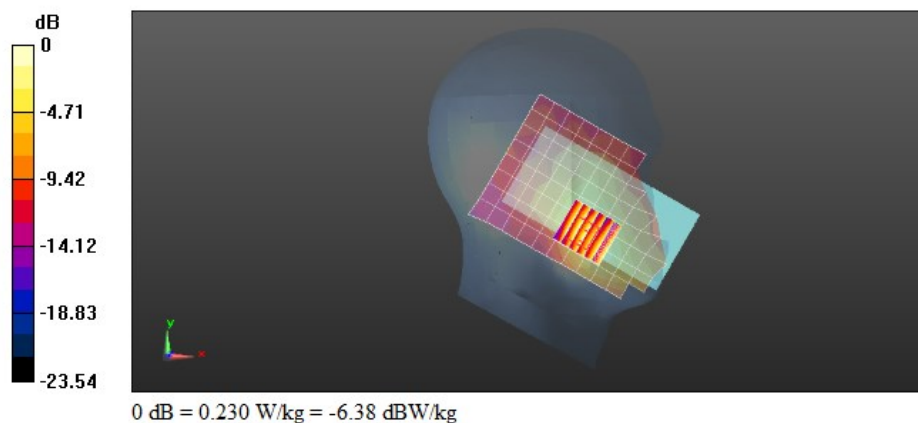
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.713 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.272 W/kg

SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.092 W/kg

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



Test Laboratory: CTI SAR Lab

LTE Band 41 20M QPSK 1RB50 40340CH Front Side 15mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2565 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2565$ MHz; $\sigma = 1.994$ S/m; $\epsilon_r = 38.374$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.3, 7.3, 7.3); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.138 W/kg

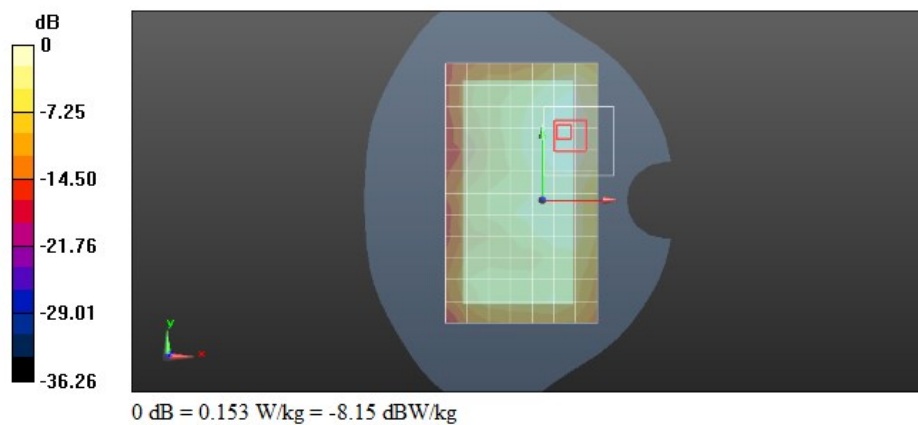
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 0.6440 V/m; Power Drift = 1.02 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.060 W/kg

Maximum value of SAR (measured) = 0.153 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 41 20M QPSK 1RB50 40620CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2593 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 2.048$ S/m; $\epsilon_r = 38.354$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.3, 7.3, 7.3); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (8x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.352 W/kg

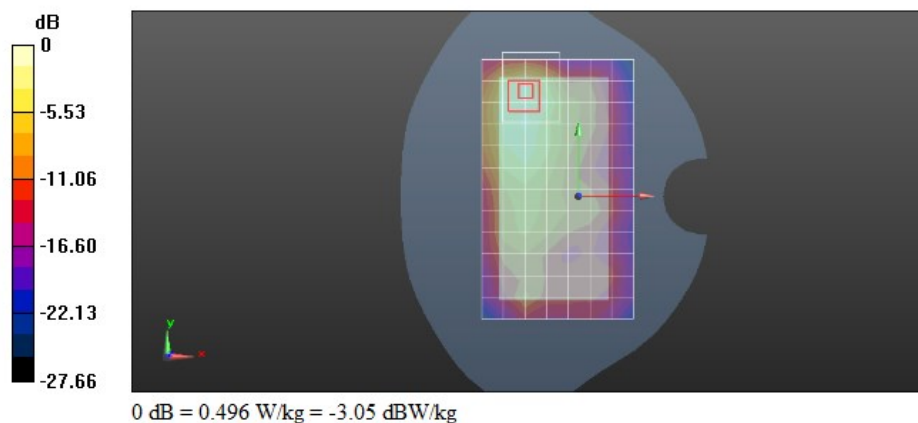
Configuration/Head/Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.230 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.496 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11b 11CH Left Hand Touch Cheek

DUT: 4G smart phone; Type: NA; 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; $\sigma = 1.802$ S/m; $\epsilon_r = 39.976$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.67, 7.67, 7.67); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (11x17x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.437 W/kg

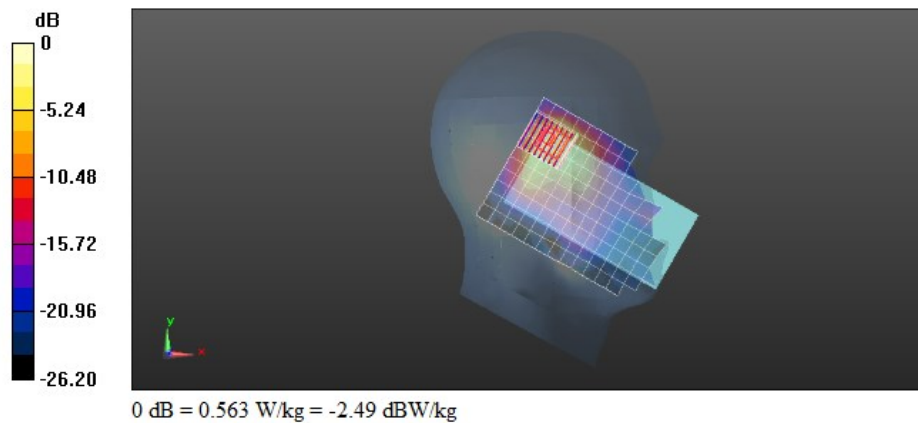
Configuration/Head/Zoom Scan (8x9x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.993 V/m; Power Drift = 1.58 dB

Peak SAR (extrapolated) = 0.750 W/kg

SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 0.563 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11b 11CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 1.802$ S/m; $\epsilon_r = 39.976$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.67, 7.67, 7.67); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (10x16x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.0686 W/kg

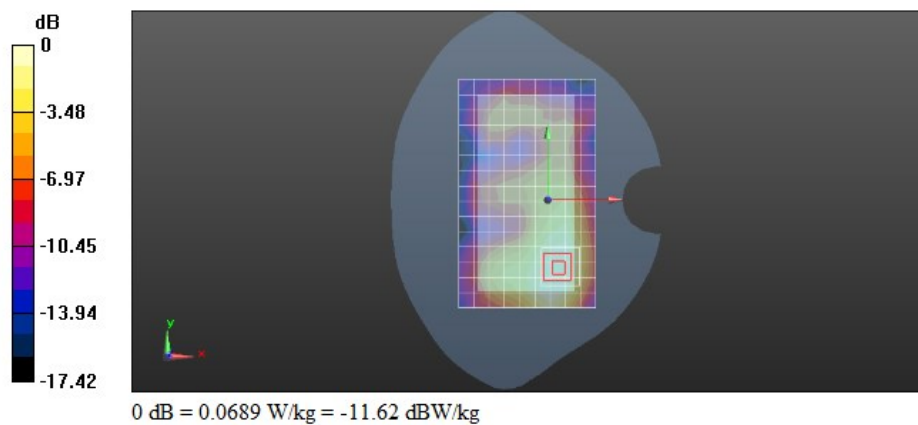
Configuration/Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.059 V/m; Power Drift = -0.52 dB

Peak SAR (extrapolated) = 0.0830 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.0689 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11b 11CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; 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; $\sigma = 1.802$ S/m; $\epsilon_r = 39.976$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.67, 7.67, 7.67); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (10x16x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.161 W/kg

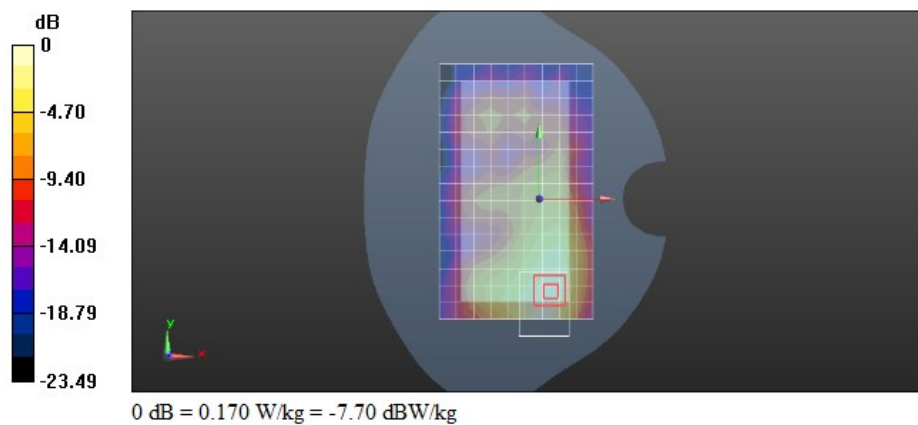
Configuration/Head/Zoom Scan (8x10x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.972 V/m; Power Drift = -0.44 dB

Peak SAR (extrapolated) = 0.217 W/kg

SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.170 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 48CH Left Hand Tilt 15 Degree

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.2G; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.704$ S/m; $\epsilon_r = 35.538$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(5.44, 5.44, 5.44); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (12x21x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.34 W/kg

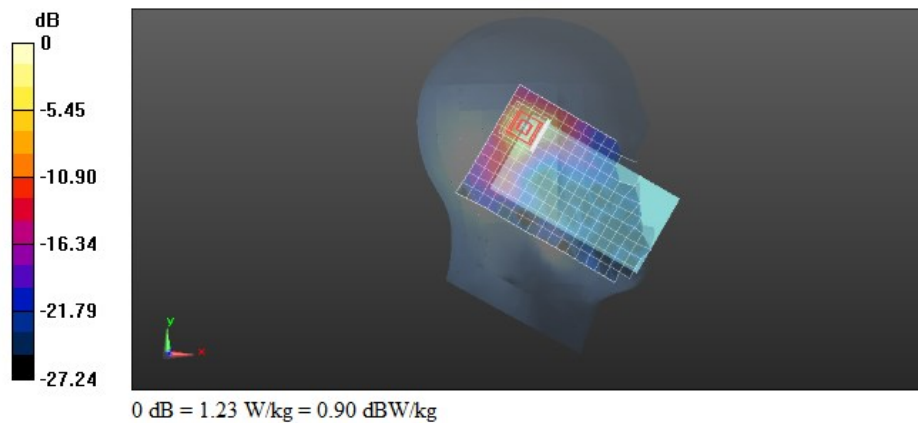
Configuration/Head/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.247 V/m; Power Drift = -0.75 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 1.23 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 48CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.2G; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.61$ S/m; $\epsilon_r = 35.522$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(5.44, 5.44, 5.44); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (12x21x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.281 W/kg

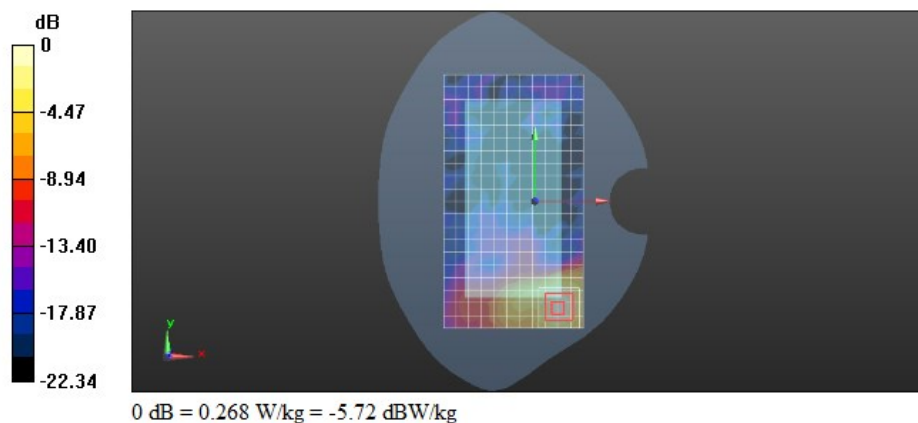
Configuration/Head/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.128 V/m; Power Drift = 2.00 dB

Peak SAR (extrapolated) = 0.398 W/kg

SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.268 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 48CH Back Side 10mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.2G; Frequency: 5240 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.61$ S/m; $\epsilon_r = 35.522$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(5.44, 5.44, 5.44); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (12x21x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.400 W/kg

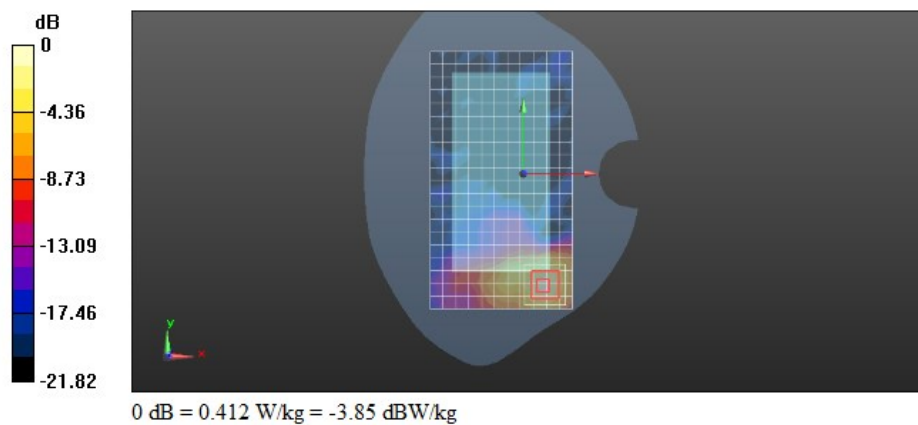
Configuration/Head/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.014 V/m; Power Drift = -0.30 dB

Peak SAR (extrapolated) = 0.612 W/kg

SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.412 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 157CH Left Hand Tilt 15 Degree

DUT: 4G smart phone; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.114$ S/m; $\epsilon_r = 34.607$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.85, 4.85, 4.85); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (12x20x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.47 W/kg

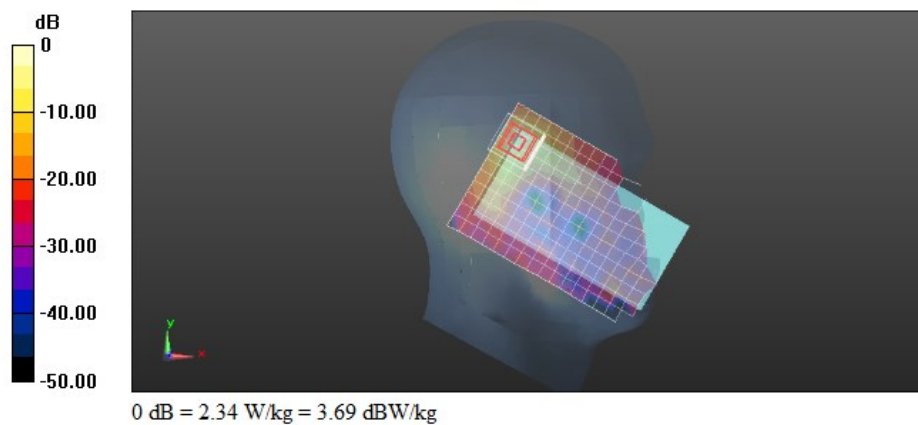
Configuration/Head/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.819 V/m; Power Drift = 0.44 dB

Peak SAR (extrapolated) = 4.64 W/kg

SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 2.34 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 165CH Back Side 15mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.244$ S/m; $\epsilon_r = 35.105$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.85, 4.85, 4.85); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (12x22x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.166 W/kg

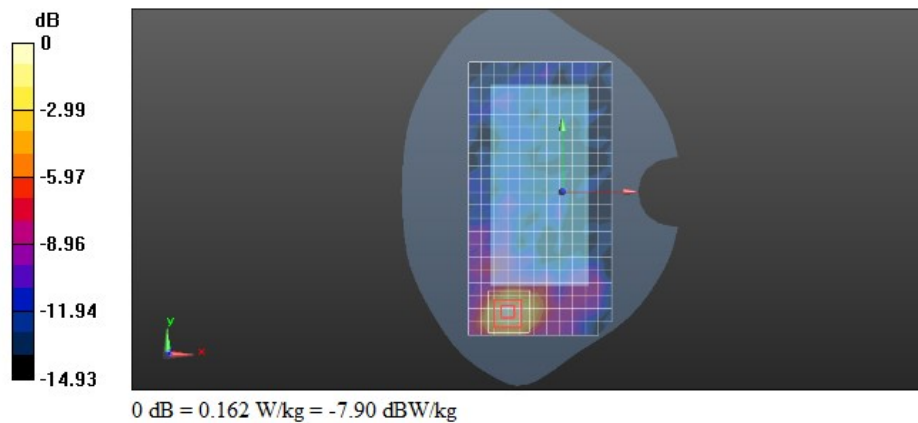
Configuration/Head/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.353 V/m; Power Drift = -1.70 dB

Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.162 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11a 157CH Top Side 10mm

DUT: 4G LTE smart phone ; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.142$ S/m; $\epsilon_r = 34.869$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.85, 4.85, 4.85); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (13x10x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.433 W/kg

Configuration/Head/Zoom Scan (9x9x16)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.867 V/m; Power Drift = -0.43 dB

Peak SAR (extrapolated) = 0.715 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.061 W/kg

Maximum value of SAR (measured) = 0.428 W/kg

