

Appendix B:SAR Measurement results Plots

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Test Laboratory: CTI SAR Lab

GSM850 190CH Back Side 10mm

DUT: LTE Mobile Wi-Fi Route; Type: NA; 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; $\sigma = 0.882$ S/m; $\epsilon_r = 40.276$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(9.98, 9.98, 9.98); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0181 W/kg

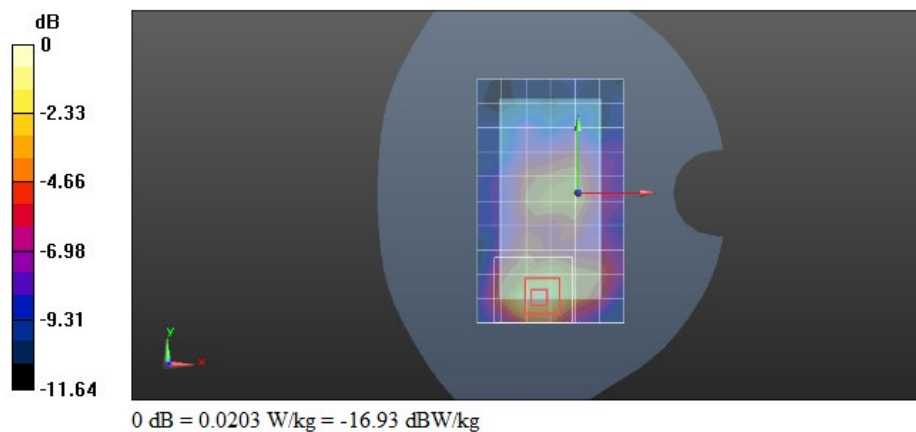
Configuration/Head/Zoom Scan (7x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.386 V/m; Power Drift = 0.56 dB

Peak SAR (extrapolated) = 0.0260 W/kg

SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00819 W/kg

Maximum value of SAR (measured) = 0.0203 W/kg



Test Laboratory: CTI SAR Lab

GSM1900 661CH Back Side 10mm

DUT: LTE Mobile Wi-Fi Route; Type: NA; 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; $\sigma = 1.403$ S/m; $\epsilon_r = 39.404$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x11x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.921 W/kg

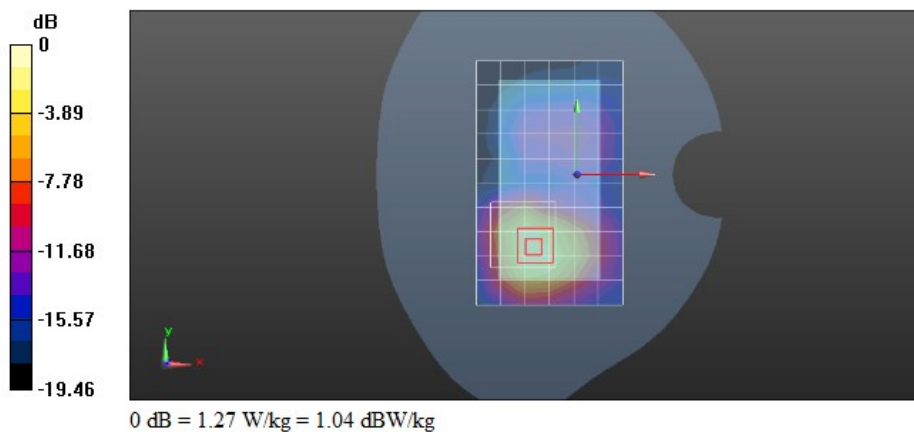
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.979 V/m; Power Drift = -1.42 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.902 W/kg; SAR(10 g) = 0.538 W/kg

Maximum value of SAR (measured) = 1.27 W/kg



Test Laboratory: CTI SAR Lab

GSM1900 512CH Back Side 10mm-Repeated**DUT: LTE Mobile Wi-Fi Route; 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; $\sigma = 1.368$ S/m; $\epsilon_r = 39.512$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

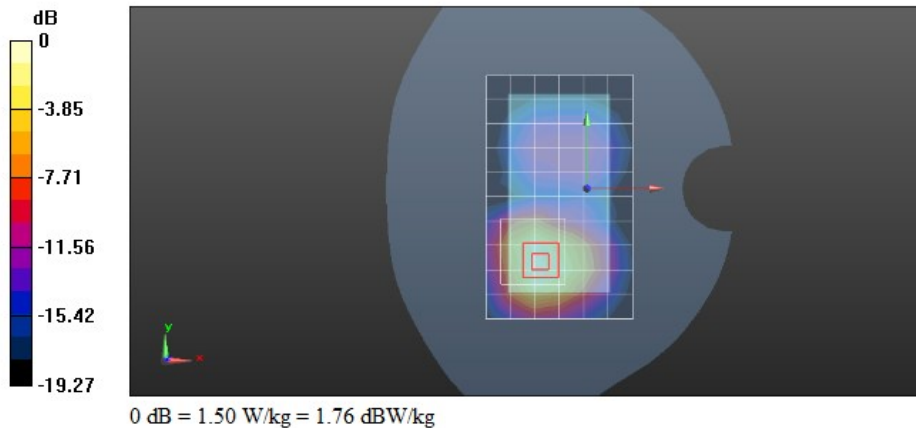
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.741 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.624 W/kg

Maximum value of SAR (measured) = 1.50 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band II 9262CH Back Side 10mm

DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 40.18$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.52 W/kg

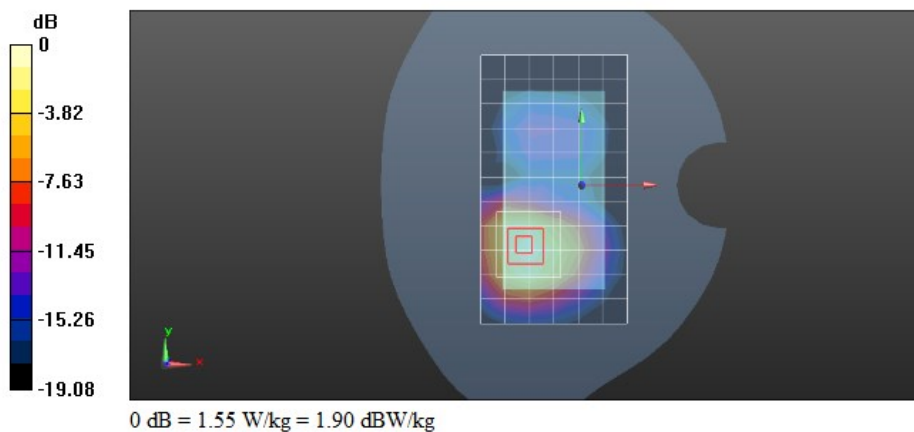
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.537 V/m; Power Drift = 1.42 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.630 W/kg

Maximum value of SAR (measured) = 1.55 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band II 9262CH Back Side 10mm-Repeated**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 40.18$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.59 W/kg

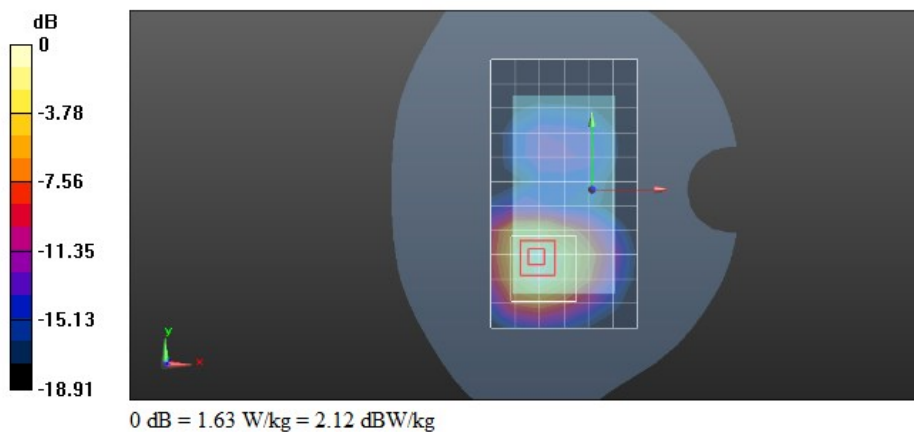
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.855 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.651 W/kg

Maximum value of SAR (measured) = 1.63 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band IV 1513CH Back Side 10mm**DUT: LTE Mobile Wi-Fi Route; Type: NA; 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; $\sigma = 1.333$ S/m; $\epsilon_r = 40.389$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.64 W/kg

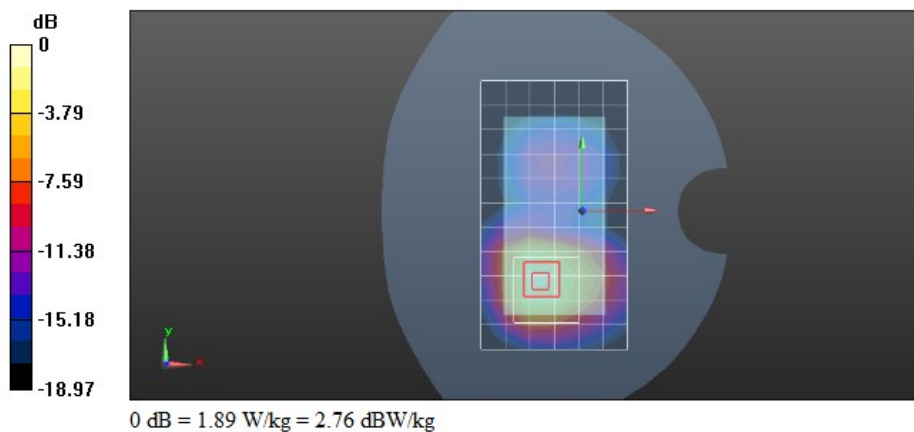
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.522 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.753 W/kg

Maximum value of SAR (measured) = 1.89 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band IV 1513CH Back Side 10mm-Repeated**DUT: LTE Mobile Wi-Fi Route; Type: NA; 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; $\sigma = 1.333$ S/m; $\epsilon_r = 40.389$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.65 W/kg

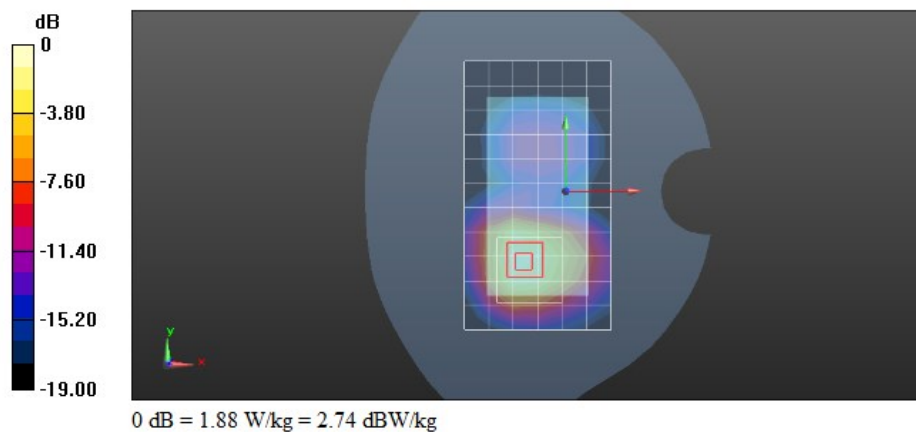
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.249 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.754 W/kg

Maximum value of SAR (measured) = 1.88 W/kg



Test Laboratory: CTI SAR Lab

UMTS Band V 4233CH Back Side 5mm**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 847$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 39.647$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(9.98, 9.98, 9.98); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.219 W/kg

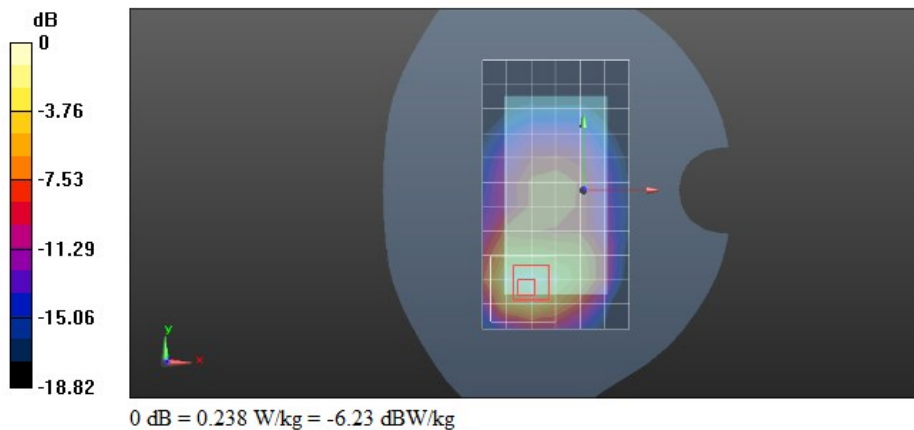
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 8.218 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.360 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.238 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 2 20M QPSK 1RB50 18700CH Back Side 10mm**DUT: LTE Mobile Wi-Fi Route; 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: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 39.446$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.52 W/kg

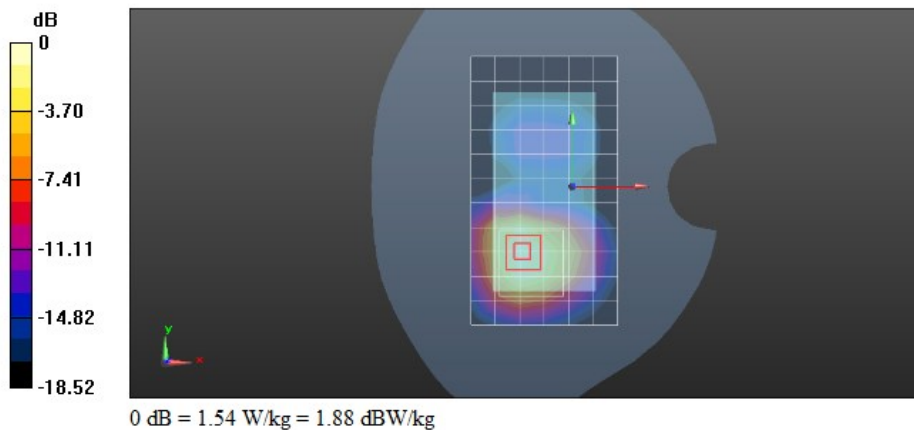
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.109 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.621 W/kg

Maximum value of SAR (measured) = 1.54 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 2 20M QPSK 1RB50 18700CH Back Side 10mm-Repeated**DUT: LTE Mobile Wi-Fi Route; 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: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 39.446$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

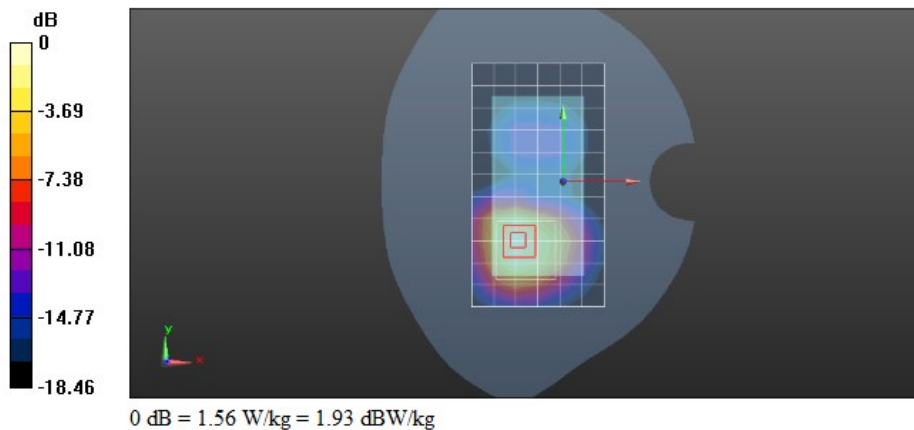
Maximum value of SAR (measured) = 1.56 W/kg

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

Reference Value = 5.106 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.635 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 4 20M QPSK 1RB50 20175CH Back Side 10mm**DUT: LTE Mobile Wi-Fi Route; 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; $\sigma = 1.307$ S/m; $\epsilon_r = 40.579$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.36 W/kg

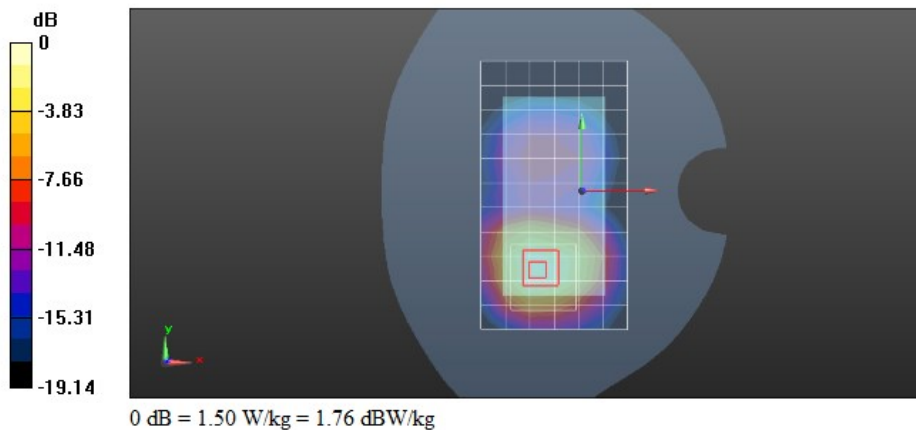
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.809 V/m; Power Drift = 0.66 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.621 W/kg

Maximum value of SAR (measured) = 1.50 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 4 20M QPSK 1RB50 20175CH Back Side 10mm-Repeated**DUT: LTE Mobile Wi-Fi Route; 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; $\sigma = 1.307$ S/m; $\epsilon_r = 40.579$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.35 W/kg

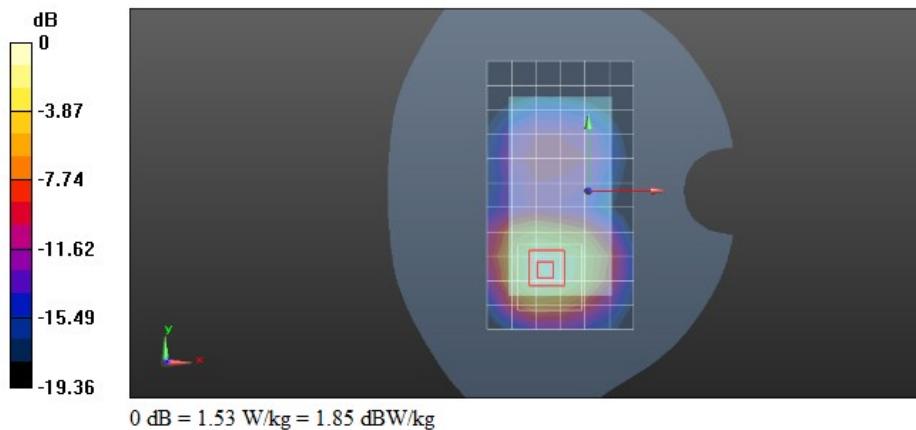
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.490 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.634 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 5 10M QPSK 25RB25 20450CH Back Side 10mm**DUT: LTE Mobile Wi-Fi Route; 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; $\sigma = 0.879$ S/m; $\epsilon_r = 40.458$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(9.98, 9.98, 9.98); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

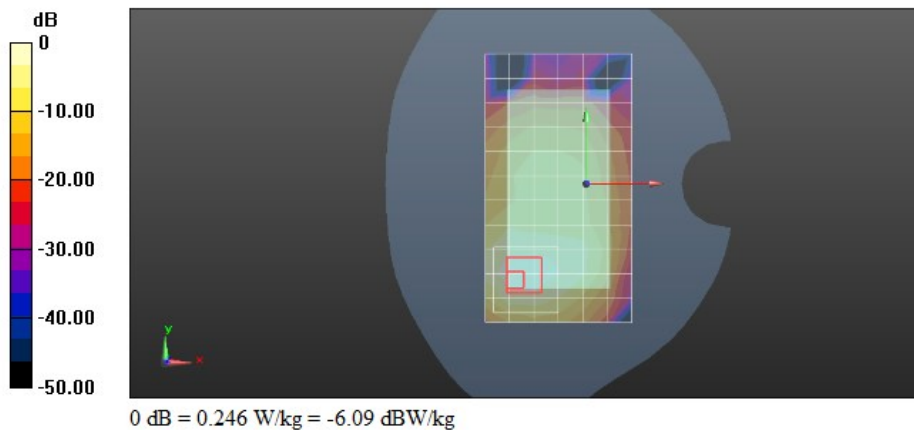
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.233 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.546 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.086 W/kg

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



Test Laboratory: CTI SAR Lab

LTE Band 7 20M QPSK 50RB25 21100CH Back Side 10mm

DUT: LTE Mobile Wi-Fi Route; 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; $\sigma = 1.917$ S/m; $\epsilon_r = 39.419$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.63, 7.63, 7.63); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.789 W/kg

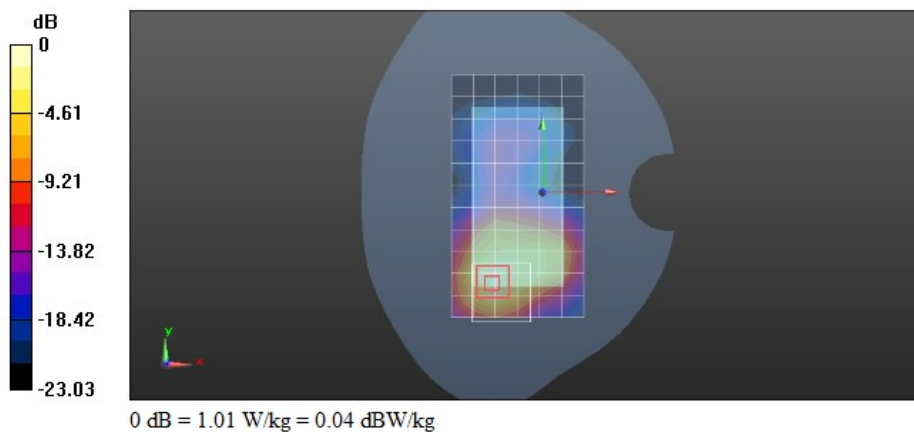
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.109 V/m; Power Drift = 0.70 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.297 W/kg

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



Test Laboratory: CTI SAR Lab

LTE Band 12 10M QPSK 25RB25 23095CH Front Side 10mm**DUT: LTE Mobile Wi-Fi Router; 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; $\sigma = 0.849$ S/m; $\epsilon_r = 43.512$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7769; ConvF(10.96, 10.96, 10.96); Calibrated: 9/20/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0359 W/kg

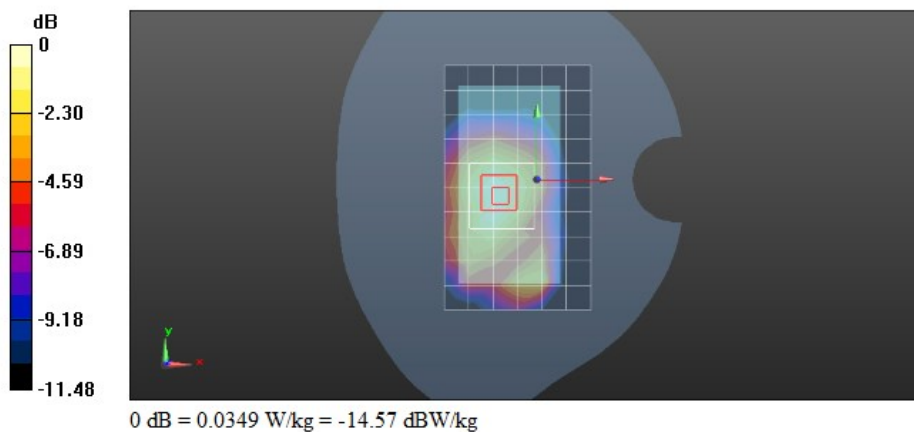
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.923 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.0450 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.0349 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 13 10M QPSK 1RB25 23230CH Back Side 10mm**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 13, E-UTRA/FDD (777.0 - 787.0 MHz); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782$ MHz; $\sigma = 0.874$ S/m; $\epsilon_r = 42.764$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7769; ConvF(10.96, 10.96, 10.96); Calibrated: 9/20/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.144 W/kg

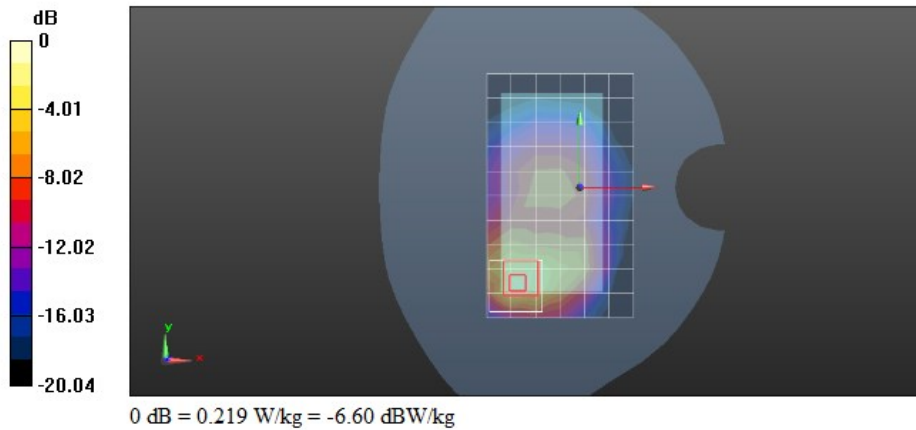
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.383 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.309 W/kg

SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.059 W/kg

Maximum value of SAR (measured) = 0.219 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 17 10M QPSK 1RB25 23790CH Front Side 10mm**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 17, E-UTRA/FDD (704.0 - 716.0 MHz); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710$ MHz; $\sigma = 0.852$ S/m; $\epsilon_r = 43.499$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7769; ConvF(10.96, 10.96, 10.96); Calibrated: 9/20/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0528 W/kg

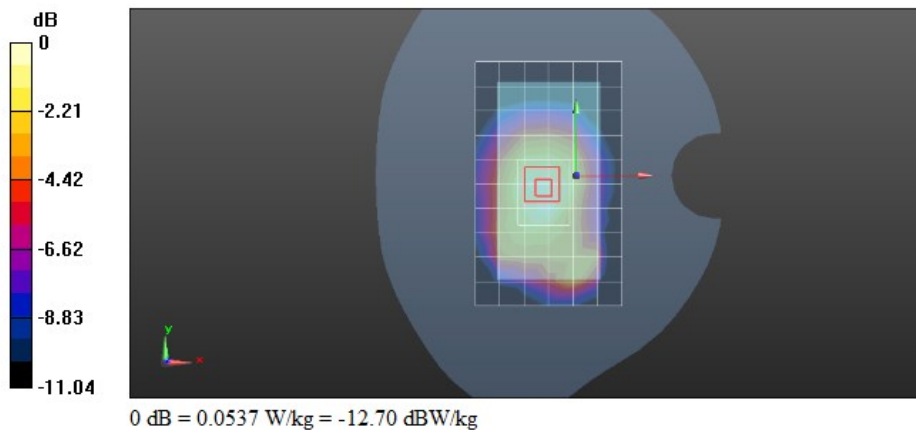
Configuration/Head/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.664 V/m; Power Drift = 0.24 dB

Peak SAR (extrapolated) = 0.0650 W/kg

SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.0537 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 25 20M QPSK 1RB50 26140CH Back Side 10mm

DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 25, E-UTRA/FDD (1850.0 - 1915.0 MHz); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.382$ S/m; $\epsilon_r = 39.42$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.53 W/kg

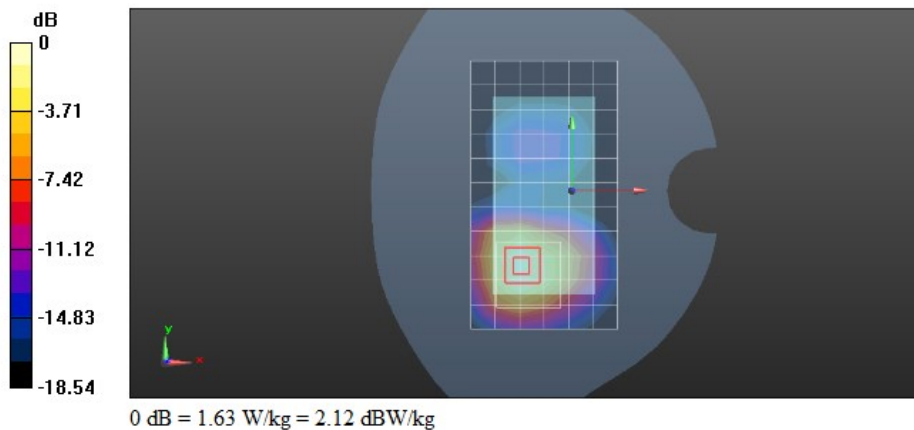
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.703 V/m; Power Drift = 0.63 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.640 W/kg

Maximum value of SAR (measured) = 1.63 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 25 20M QPSK 1RB50 26140CH Back Side 10mm-Repeated

DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 25, E-UTRA/FDD (1850.0 - 1915.0 MHz); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.382$ S/m; $\epsilon_r = 39.42$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.53 W/kg

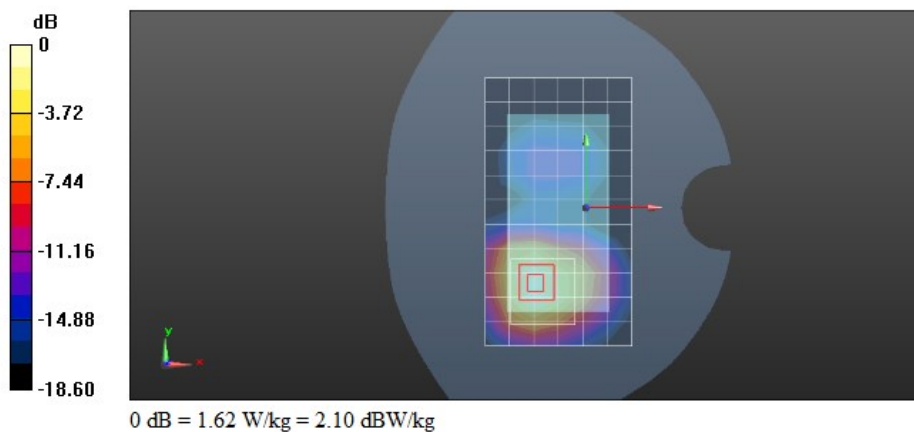
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.951 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.637 W/kg

Maximum value of SAR (measured) = 1.62 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 26 15M QPSK 1RB38 26909CH Back Side 10mm**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 26, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 835.9 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836$ MHz; $\sigma = 0.884$ S/m; $\epsilon_r = 40.43$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(9.98, 9.98, 9.98); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

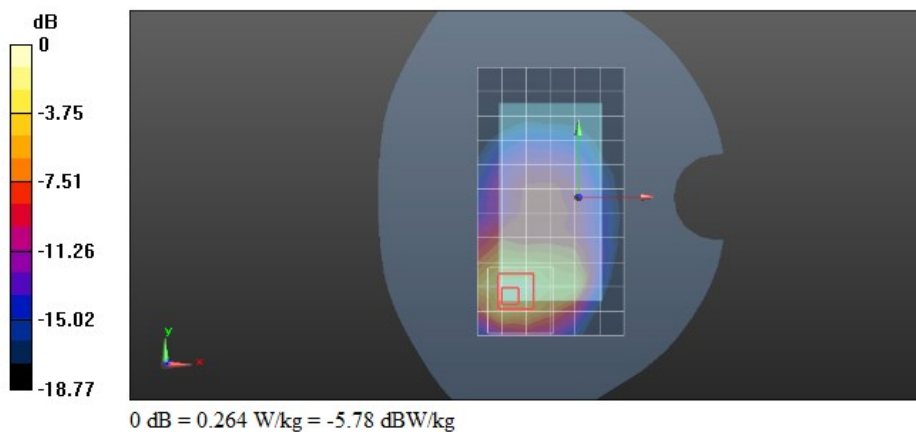
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.190 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.264 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 41 20M QPSK 1RB50 39750CH Top Side 10mm**DUT: LTE Mobile Wi-Fi Route; 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: 2506 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2506$ MHz; $\sigma = 1.903$ S/m; $\epsilon_r = 39.425$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.63, 7.63, 7.63); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x7x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.278 W/kg

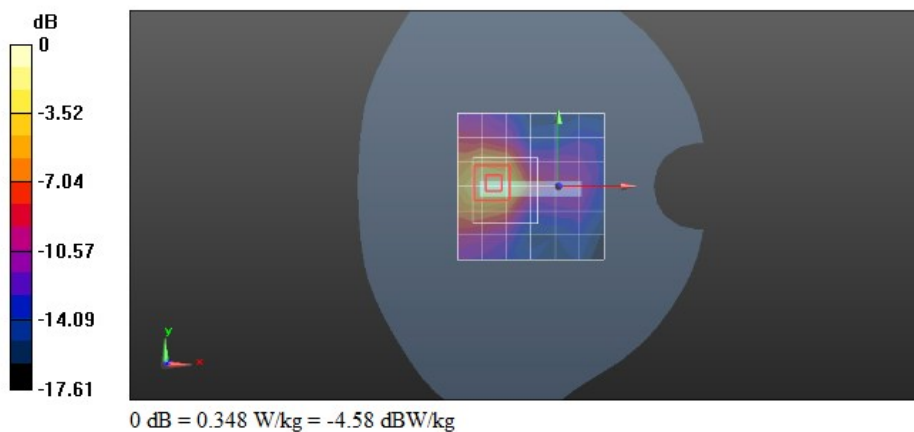
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.550 V/m; Power Drift = 0.66 dB

Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.348 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 66 20M QPSK 1RB50 132572CH Back Side 10mm**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 66, E-UTRA/FDD (1710.0 - 1780.0 MHz); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.354$ S/m; $\epsilon_r = 40.691$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.43 W/kg

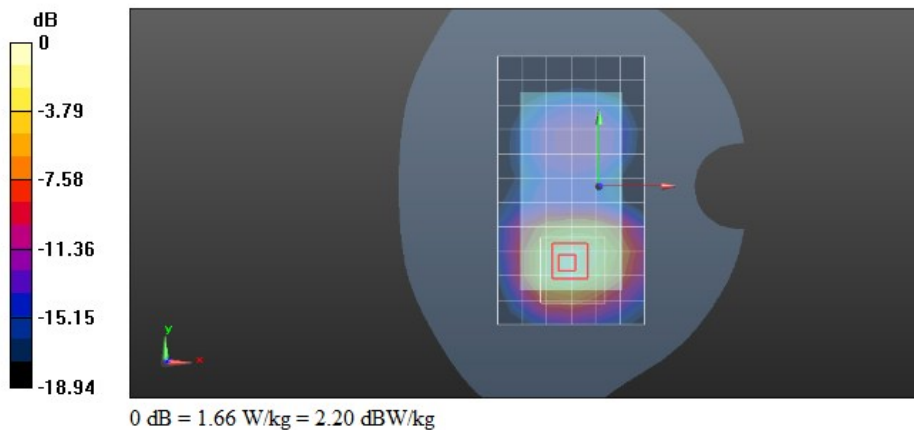
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.350 V/m; Power Drift = 0.40 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.673 W/kg

Maximum value of SAR (measured) = 1.66 W/kg



Test Laboratory: CTI SAR Lab

LTE Band 66 20M QPSK 1RB50 132072CH Back Side 10mm-Repeated**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 66, E-UTRA/FDD (1710.0 - 1780.0 MHz); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.306$ S/m; $\epsilon_r = 40.858$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Head/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.32 W/kg

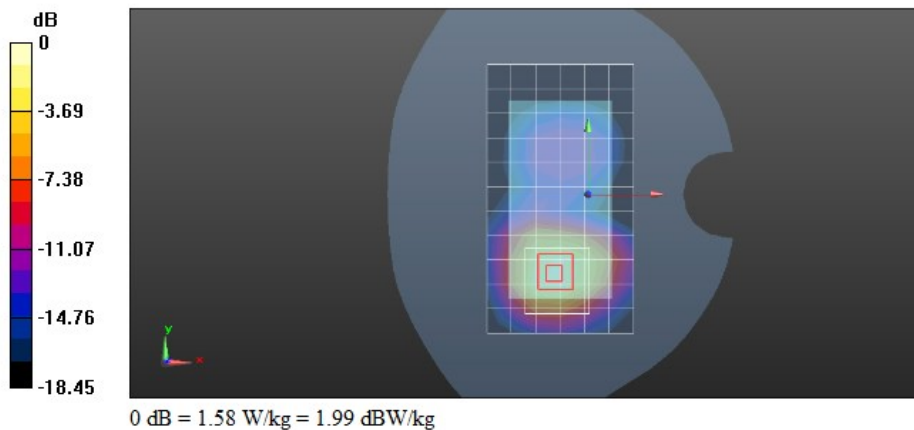
Configuration/Head/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.242 V/m; Power Drift = 0.52 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.629 W/kg

Maximum value of SAR (measured) = 1.58 W/kg



Test Laboratory: CTI SAR Lab

WiFi 802.11b 1CH Back Side 10mm**DUT: LTE Mobile Wi-Fi Router; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.782$ S/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.63, 7.63, 7.63); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- 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: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.125 W/kg

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

Reference Value = 2.415 V/m; Power Drift = 0.89 dB

Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.043 W/kg

Maximum value of SAR (measured) = 0.139 W/kg

