

Appendix B. MEASUREMENT SCANS

LTE Band2 Body Right Side High

Communication System: UID 10181 - CAE, LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK);

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency:

1902.5 MHz; Communication System PAR: 5.725 dB; PMF: 1.13894

Medium parameters used (interpolated): $f = 1902.5$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 40.987$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7623; ConvF(8.34, 8.34, 8.34) @ 1902.5 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0$, 31.0
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Body/Right High/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 14.39 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.121 W/kg

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

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

Reference Value = 14.39 V/m; Power Drift = -0.03 dB

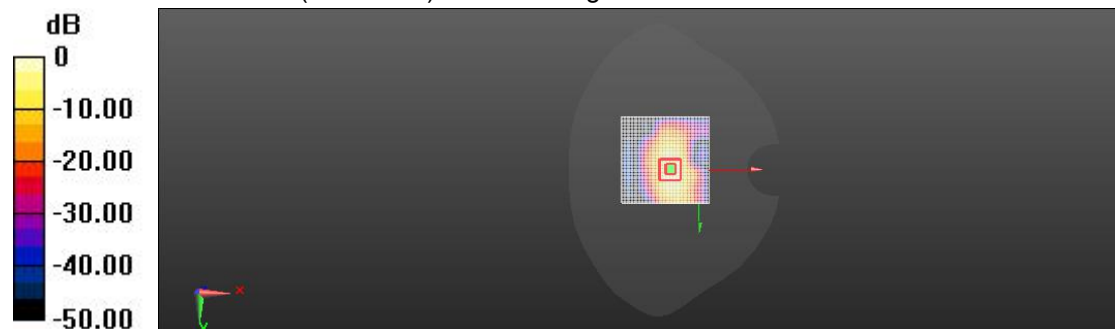
Peak SAR (extrapolated) = 0.609 W/kg

SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.121 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 51%

Maximum value of SAR (measured) = 0.334 W/kg



0 dB = 0.326 W/kg = -4.87 dBW/kg

LTE Band4 Body Right Side Low

Communication System: UID 10184 - CAE, LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK);

Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency:

1711.5 MHz; Communication System PAR: 5.733 dB; PMF: 1.13894

Medium parameters used (interpolated): $f = 1711.5$ MHz; $\sigma = 1.306$ S/m; $\epsilon_r = 41.094$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7623; ConvF(8.65, 8.65, 8.65) @ 1711.5 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Body/Right Low/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 12.22 V/m; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.098 W/kg

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

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

Reference Value = 12.22 V/m; Power Drift = -0.04 dB

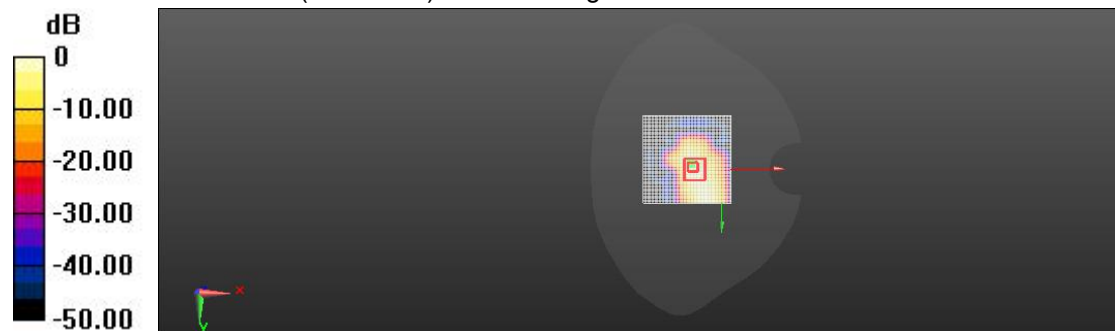
Peak SAR (extrapolated) = 0.382 W/kg

SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.085 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.8%

Maximum value of SAR (measured) = 0.205 W/kg



0 dB = 0.246 W/kg = -6.09 dBW/kg

LTE Band5(10MHz) Body Right Side High

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM);
Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 844 MHz; Communication System PAR: 5.724 dB; PMF: 1.13894

Medium parameters used (interpolated): $f = 844$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 42.757$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7623; ConvF(10.21, 10.21, 10.21) @ 844 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Body/Right High/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 13.57 V/m; Power Drift = 0.17 dB

Fast SAR: SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.110 W/kg

Maximum value of SAR (interpolated) = 0.209 W/kg

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

Reference Value = 13.57 V/m; Power Drift = 0.17 dB

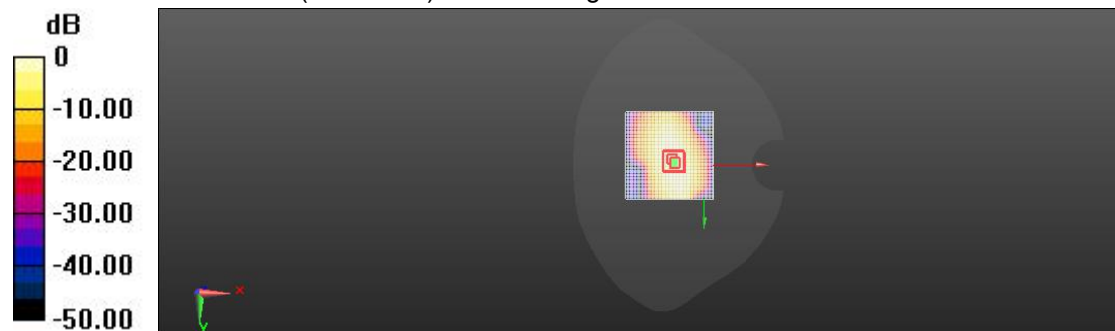
Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.102 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 61.5%

Maximum value of SAR (measured) = 0.197 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

LTE Band12(10MHz) Body Right Side Low

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK);
Communication System Band: Band 12, E-UTRA/FDD (699.0 - 716.0 MHz); Frequency: 704 MHz; Communication System PAR: 5.724 dB; PMF: 1.13894

Medium parameters used (interpolated): $f = 704$ MHz; $\sigma = 0.872$ S/m; $\epsilon_r = 42.998$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7623; ConvF(10.6, 10.6, 10.6) @ 704 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Body/Right Low/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 3.580 V/m; Power Drift = 0.14 dB

Fast SAR: SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.026 W/kg

Maximum value of SAR (interpolated) = 0.0572 W/kg

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

Reference Value = 3.580 V/m; Power Drift = 0.14 dB

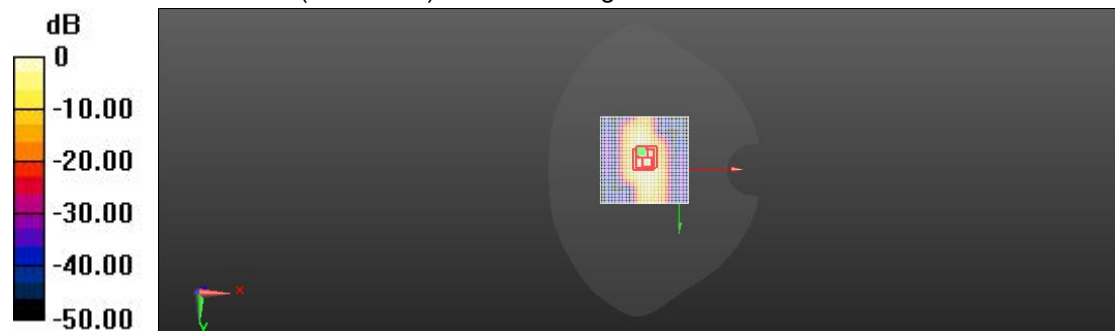
Peak SAR (extrapolated) = 0.0830 W/kg

SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.020 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 0.0409 W/kg



0 dB = 0.0572 W/kg = -12.43 dBW/kg

LTE Band12(10MHz) Body Right Side Low

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK);
Communication System Band: Band 12, E-UTRA/FDD (699.0 - 716.0 MHz); Frequency: 707.5 MHz; Communication System PAR: 5.724 dB; PMF: 1.13894

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.872$ S/m; $\epsilon_r = 42.998$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7623; ConvF(10.6, 10.6, 10.6) @ 707.5 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0$, 31.0
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Body/Right Low/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 5.827 V/m; Power Drift = 0.17 dB

Fast SAR: SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.029 W/kg

Maximum value of SAR (interpolated) = 0.0608 W/kg

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

Reference Value = 5.827 V/m; Power Drift = 0.17 dB

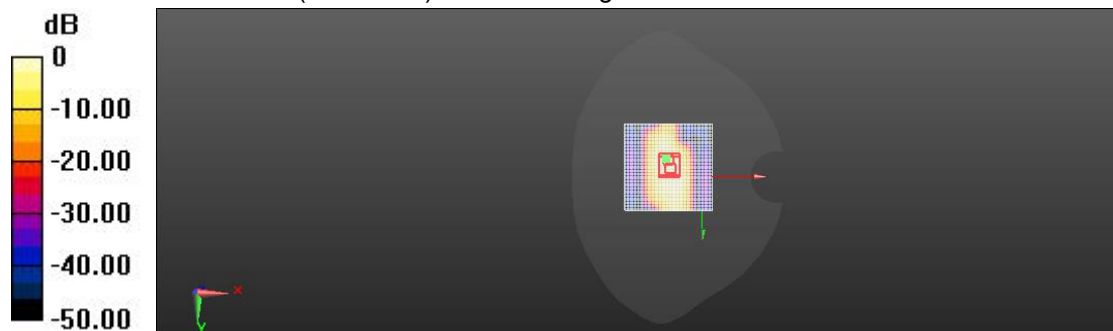
Peak SAR (extrapolated) = 0.0820 W/kg

SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.021 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 0.0412 W/kg



0 dB = 0.0608 W/kg = -12.16 dBW/kg

LTE Band13(10MHz) Body Right Side Mid

Communication System: UID 10178 - CAG, LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM);
Communication System Band: Band 13, E-UTRA/FDD (777.0 - 787.0 MHz); Frequency: 782
MHz; Communication System PAR: 6.519 dB; PMF: 1.24022

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 42.737$; $\rho = 1000$
kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7623; ConvF(10.6, 10.6, 10.6) @ 782 MHz; Calibrated: 2023-02-28
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1637; Calibrated: 2023-10-20
- Phantom: SAM 3; Type: QD 000 P41 AA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Body/Right Mid/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 8.876 V/m; Power Drift = 0.10 dB

Fast SAR: SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (interpolated) = 0.186 W/kg

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

Reference Value = 8.876 V/m; Power Drift = 0.10 dB

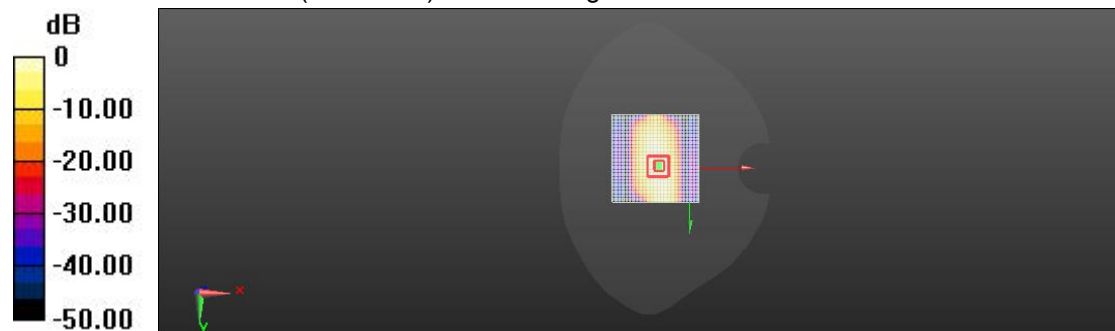
Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.072 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 60.1%

Maximum value of SAR (measured) = 0.146 W/kg



0 dB = 0.186 W/kg = -7.30 dBW/kg