

APPENDIX A: SAR TEST DATA

PCTEST

DUT: A3LSMS901U; Type: Portable Handset; Serial: 1018M

Communication System: UID:10903 - AAB, 5G NR FR1 TDD; MAIA: Y; Frequency: 3680.0 MHz

Medium: 3600 Head; Medium parameters used:

f = 3680.0 MHz; cond = 2.96 S/m; perm = 39.1; density = 1000 kg/m³

Phantom Section: RightHead; Space: 0.00 mm

Test Date: 10/28/2021; Ambient Temp: 21.3°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7670; ConvF:(6.93,6.93,6.93); Calibrated: 2021-08-05

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1681; Calibrated: 2021-08-03

Phantom: Twin-SAM V8.0; Serial: 1630

Measurement SW: DASY Module SAR V16.0.0.116

Mode: NR Band n48, Right Head, Cheek, 40 MHz Bandwidth,
DFT-s-OFDM QPSK, Ch.645332, 1 RB, 1 RB Offset

Area Scan (120.0 x 180.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=3.8 mm, dy=3.8 mm, dz=1.4 mm; Graded Ratio: 1.4

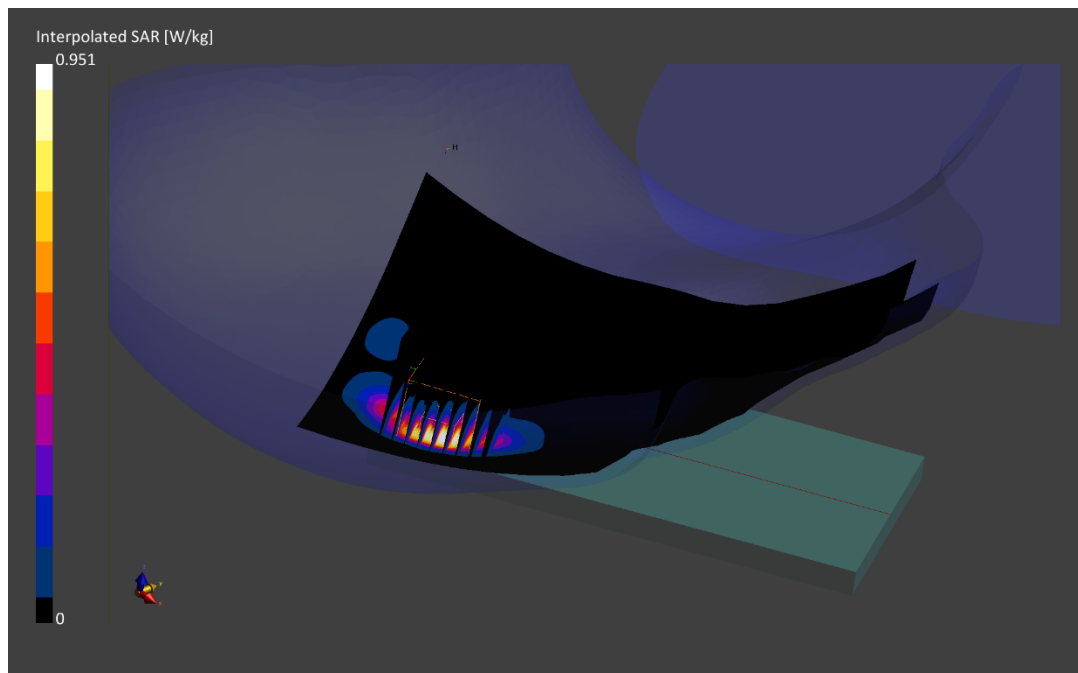
Reference Value = 0.93 W/kg; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.58 W/kg

SAR(1 g) = 0.781 W/kg

Smallest distance from peaks to all points 3 dB below is 5.2 mm

Ratio of SAR at M2 to SAR at M1 = 72.0 %



PCTEST

DUT: A3LSMS901U; Type: Portable Handset; Serial: 1018M

Communication System: UID:10913 - AAB, 5G NR FR1 TDD; MAIA: Y; Frequency: 3680.0 MHz

Medium: 3600 Body; Medium parameters used:

f = 3680.0 MHz; cond = 3.44 S/m; perm = 49.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 15.00 mm

Test Date: 10/18/2021; Ambient Temp: 20.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7661; ConvF:(6.66,6.66,6.66); Calibrated: 2021-06-28

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1450; Calibrated: 2021-08-16

Phantom: Twin-SAM V5.0; Serial: 1692 Right Back

Measurement SW: DASY Module SAR V16.0.0.116

Mode: NR Band n48, Body SAR, Back side, 40 MHz Bandwidth,
DFT-s-OFDM QPSK, Ch.645332, 50 RB, 56 RB Offset

Area Scan (120.0 x 200.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

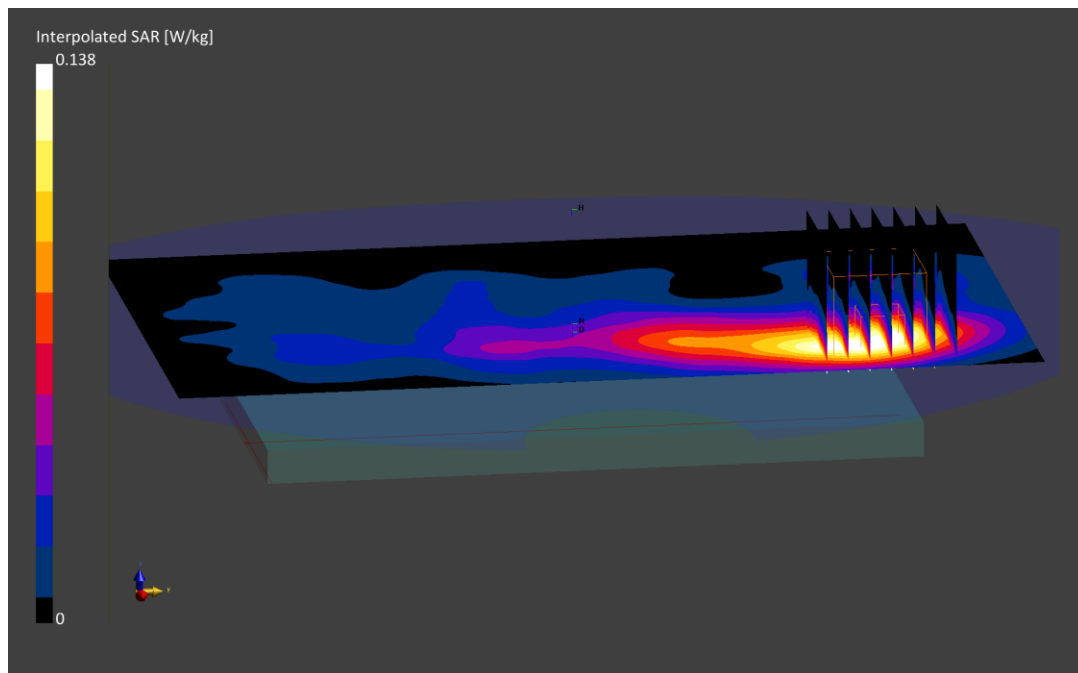
Reference Value = 0.07 W/kg; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.240 W/kg

SAR(1 g) = 0.105 W/kg

Smallest distance from peaks to all points 3 dB below is 13.9 mm

Ratio of SAR at M2 to SAR at M1 = 75.5 %



PCTEST

DUT: A3LSMS901U; Type: Portable Handset; Serial: 1018M

Communication System: UID:10913 - AAB, 5G NR FR1 TDD; MAIA: Y; Frequency: 3680.0 MHz

Medium: 3600 Body; Medium parameters used:

f = 3680.0 MHz; cond = 3.44 S/m; perm = 49.3; density = 1000 kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 10/18/2021; Ambient Temp: 20.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7661; ConvF:(6.66,6.66,6.66); Calibrated: 2021-06-28

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1450; Calibrated: 2021-08-16

Phantom: Twin-SAM V5.0; Serial: 1692 Right Back

Measurement SW: DASY Module SAR V16.0.0.116

Mode: NR Band n48, Body SAR, Left Edge, 40 MHz Bandwidth,
DFT-s-OFDM QPSK, Ch.645322, 50 RB, 56 RB Offset

Area Scan (40.0 x 200.0): Measurement grid: dx=5.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.4 mm; Graded Ratio: 1.5

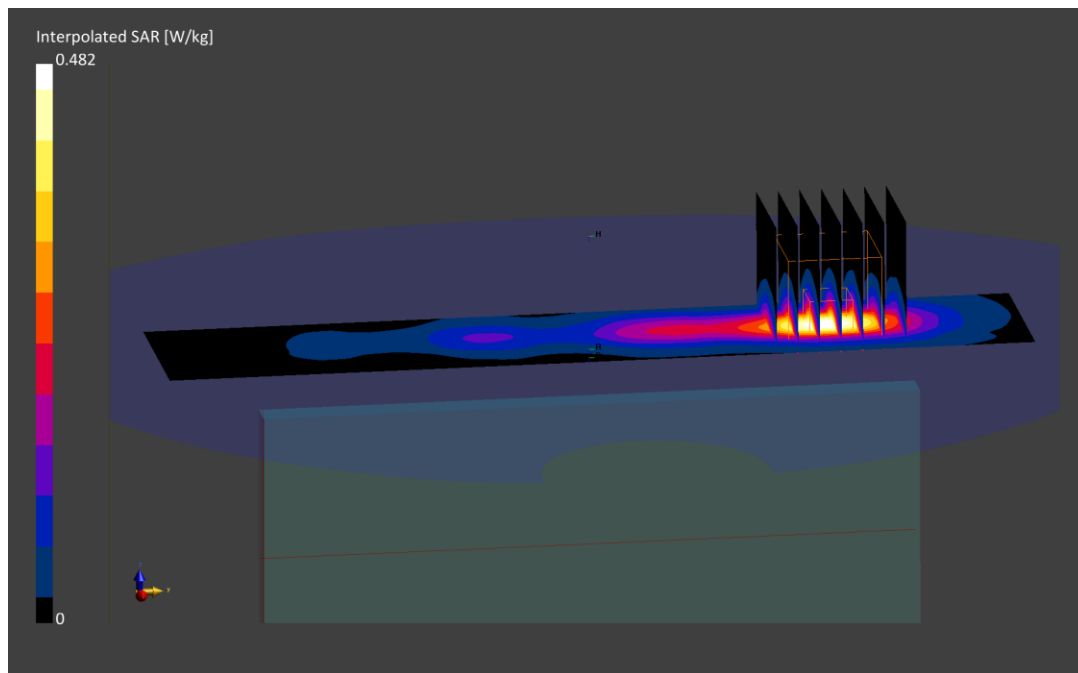
Reference Value = 0.22 W/kg; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.862 W/kg

SAR(1 g) = 0.350 W/kg

Smallest distance from peaks to all points 3 dB below is 9.0 mm

Ratio of SAR at M2 to SAR at M1 = 76.3 %



PCTEST

DUT: A3LSMS901U; Type: Portable Handset; Serial: 1018M

Communication System: UID:10913 - AAB, 5G NR FR1 TDD; MAIA: Y; Frequency: 3570.0 MHz

Medium: 3600 Body; Medium parameters used:

f = 3570.0 MHz; cond = 3.31 S/m; perm = 49.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 10/18/2021; Ambient Temp: 20.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7661; ConvF:(6.7,6.7,6.7); Calibrated: 2021-06-28

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1450; Calibrated: 2021-08-16

Phantom: Twin-SAM V5.0; Serial: 1692 Right Back

Measurement SW: DASY Module SAR V16.0.0.116

Mode: NR Band n48, Body SAR, Left Edge, 40 MHz Bandwidth,
DFT-s-OFDM QPSK, Ch.638000, 50 RB, 56 RB Offset

Area Scan (40.0 x 200.0): Measurement grid: dx=5.0 mm, dy=10.0 mm

Zoom Scan (28.0 x 28.0 x 28.0): Measurement grid: dx=3.6 mm, dy=3.6 mm, dz=1.4 mm; Graded Ratio: 1.5

Reference Value = 5.62 W/kg; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 31.6 W/kg

SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below is 4.2 mm

Ratio of SAR at M2 to SAR at M1 = 66.5 %

