APPENDIX A: SAR TEST DATA

ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0234M

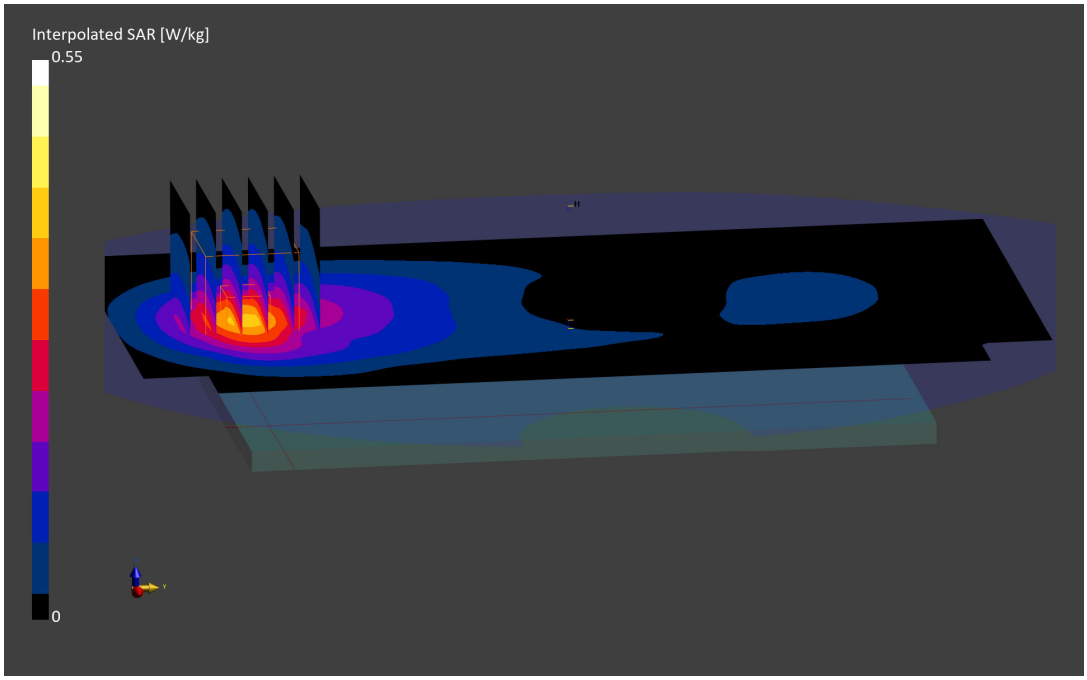
Communication System: UID:10011 - CAB, WCDMA; MAIA: Y; Frequency: 1712.4 MHz
Medium: 1750 Body; Medium parameters used:
f = 1712.4 MHz; cond = 1.40 S/m; perm = 51.3; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/12/2022; Ambient Temp: 21.5°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7406; ConvF:(8.06,8.06,8.06); Calibrated: 2022-07-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1677; Calibrated: 2022-07-18
Phantom: Twin-SAM V8.0; Serial: 2064
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: UMTS 1750, Body SAR. Back Side, Low Ch.

Area Scan (120.0 x 210.0): Measurement grid: dx=15.0 mm, dy=15.0 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.34 W/kg; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.550 W/kg
SAR(1 g) = 0.333 W/kg
Smallest distance from peaks to all points 3 dB below is 14.5 mm
Ratio of SAR at M2 to SAR at M1 = 83.6 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0247M

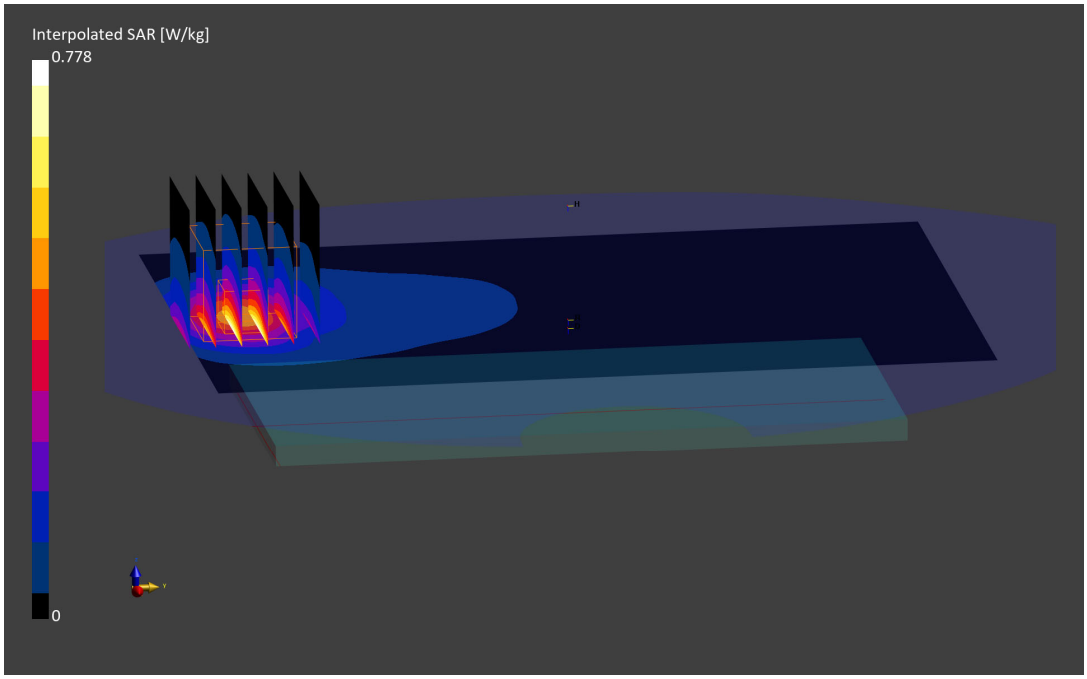
Communication System: UID:10011 - CAC, WCDMA; MAIA: Y; Frequency: 1852.4 MHz
Medium: 1900 Body; Medium parameters used:
f = 1852.4 MHz; cond = 1.49 S/m; perm = 52.1; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/13/2022; Ambient Temp: 22.5°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7570; ConvF:(8.19,8.19,8.19); Calibrated: 2022-01-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2022-01-14
Phantom: Twin-SAM V8.0; Serial: 20063
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: UMTS 1900, Body SAR, Back Side, Low Ch.

Area Scan (120.0 x 180.0): Measurement grid: dx=15.0 mm, dy=15.0 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.45 W/kg; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.778 W/kg
SAR(1 g) = 0.439 W/kg
Smallest distance from peaks to all points 3 dB below is 13.2 mm
Ratio of SAR at M2 to SAR at M1 = 82.3 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0265M

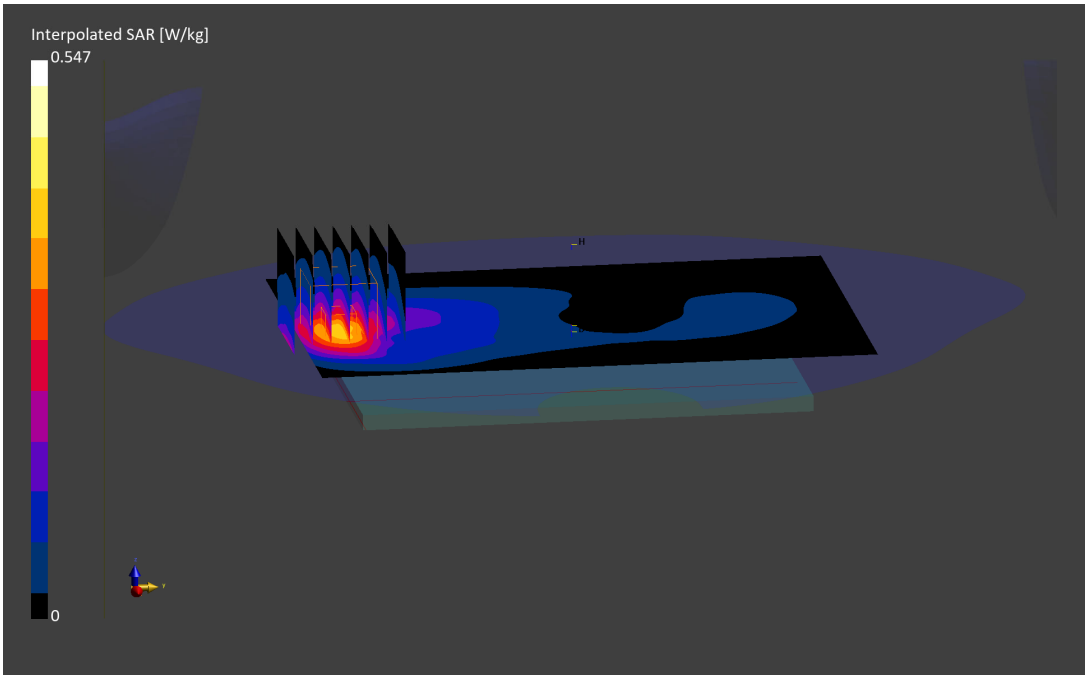
Communication System: UID:10169 - CAE, LTE-FDD; MAIA: Y; Frequency: 1745.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1745.0 MHz; cond = 1.46 S/m; perm = 53.3; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/11/2022; Ambient Temp: 22.9°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7410; ConvF:(8.14,8.14,8.14); Calibrated: 2022-07-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1583; Calibrated: 2022-07-18
Phantom: Twin-SAM V8.0; Serial: 1966
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: LTE Band 66 (AWS), Antenna A, Body SAR, Back Side, Mid Ch., 20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

Area Scan (120.0 x 180.0): Measurement grid: dx=15.0 mm, dy=15.0 mm
Zoom Scan (36.0 x 36.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.30 W/kg; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.547 W/kg
SAR(1 g) = 0.340 W/kg
Smallest distance from peaks to all points 3 dB below is 14.4 mm
Ratio of SAR at M2 to SAR at M1 = 85.8 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0247M

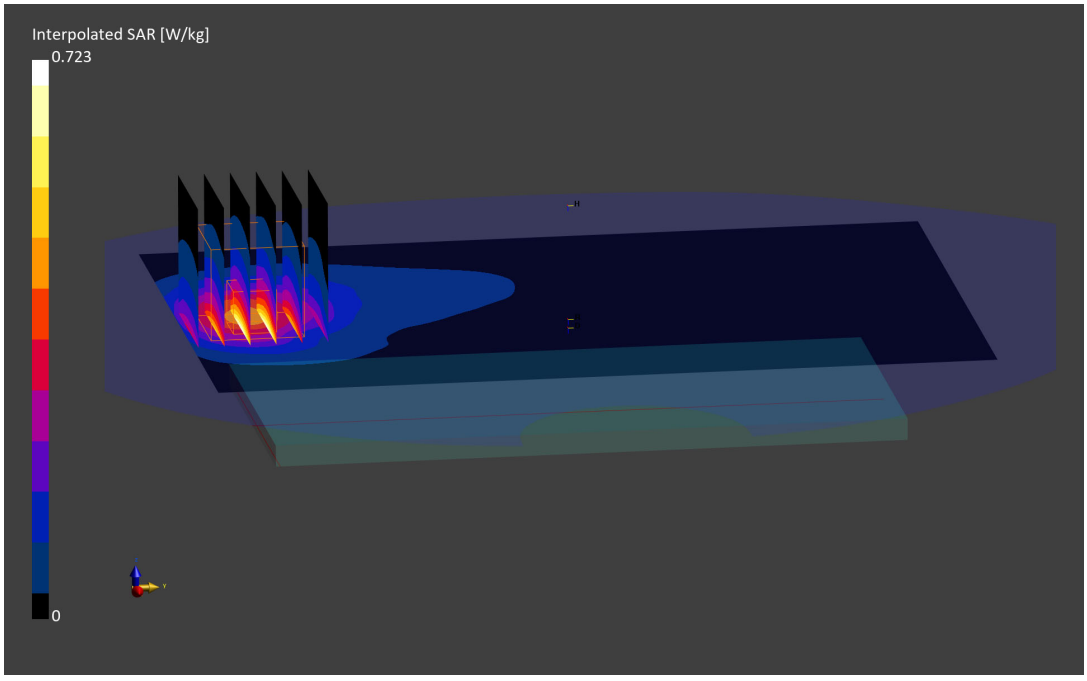
Communication System: UID:10297 - AAE, LTE-FDD; MAIA: Y; Frequency: 1905.0 MHz
Medium: 1900 Body; Medium parameters used:
f = 1905.0 MHz; cond = 1.55 S/m; perm = 51.9; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/13/2022; Ambient Temp: 22.5°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7570; ConvF:(8.19,8.19,8.19); Calibrated: 2022-01-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2022-01-14
Phantom: Twin-SAM V8.0; Serial: 20063
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: LTE Band 25, Antenna A, Body SAR , Back side, High Ch, 20 MHz Bandwidth QPSK, 50 RB, 50 RB Offset

Area Scan (120.0 x 180.0): Measurement grid: dx=15.0 mm, dy=15.0 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.41 W/kg; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.723 W/kg
SAR(1 g) = 0.407 W/kg
Smallest distance from peaks to all points 3 dB below is 14.1 mm
Ratio of SAR at M2 to SAR at M1 = 80.8 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0234M

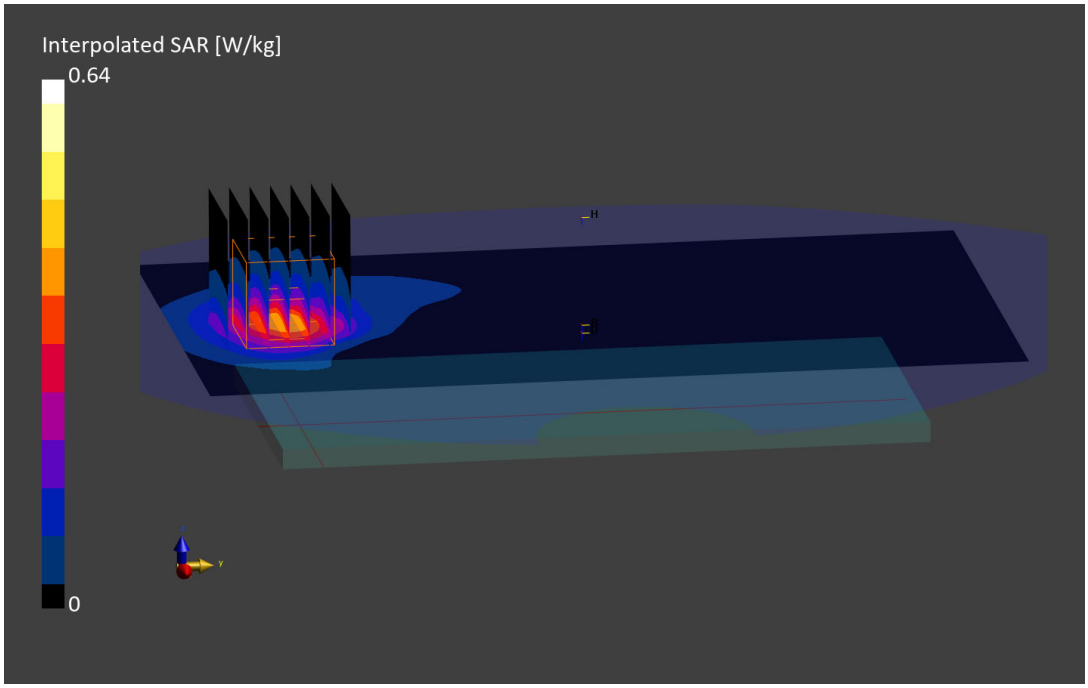
Communication System: UID:10175 - CAG, LTE-FDD; MAIA: Y; Frequency: 2310.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2310.0 MHz; cond = 1.83 S/m; perm = 55.2; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/12/2022; Ambient Temp: 23.3°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7409; ConvF:(7.47,7.47,7.47); Calibrated: 2022-06-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: LTE Band 30, Antenna A, Body SAR, Back Side, 10 MHz Bandwidth, Mid Ch., QPSK, 1 RB, 25 RB Offset

Area Scan (120.0 x 200.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.33 W/kg; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.640 W/kg
SAR(1 g) = 0.339 W/kg
Smallest distance from peaks to all points 3 dB below is 13.0 mm
Ratio of SAR at M2 to SAR at M1 = 81.1 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0305M

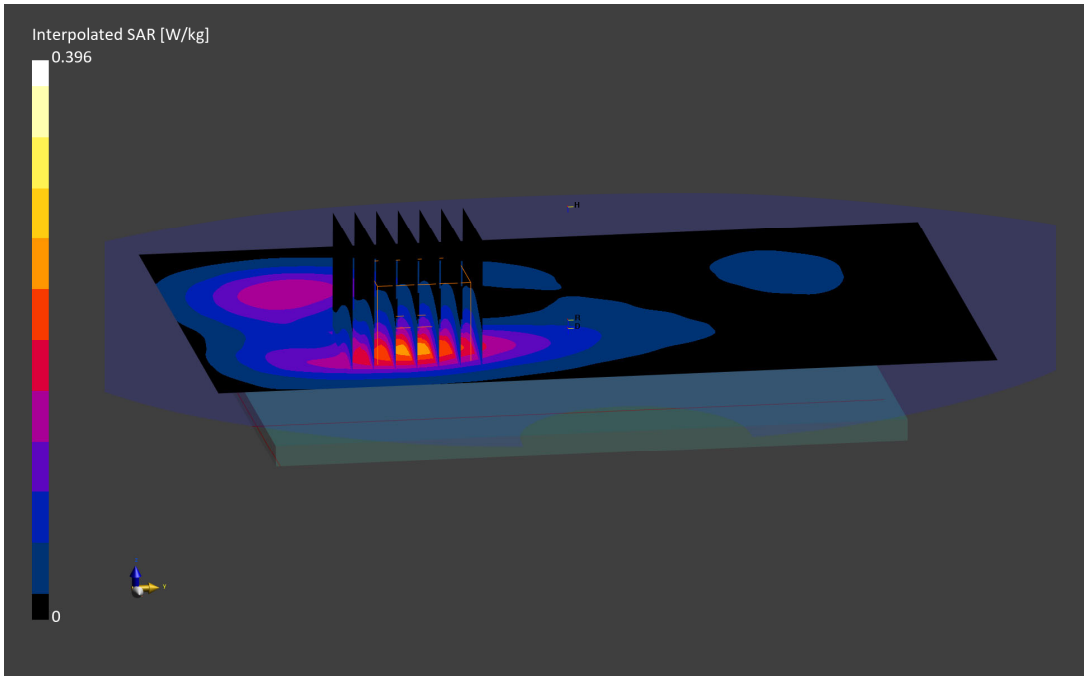
Communication System: UID:10297 - AAD, LTE-FDD; MAIA: Y; Frequency: 2560.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2560.0 MHz; cond = 2.15 S/m; perm = 51.0; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/13/2022; Ambient Temp: 23.8°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7527; ConvF:(7.25,7.25,7.25); Calibrated: 2022-03-21
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1272; Calibrated: 2022-03-16
Phantom: Twin-SAM V5.0; Serial: 1757
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: LTE Band 7, Antenna B, Body SAR, Back Side, High Ch, 20 MHz Bandwidth, QPSK, 50 RB, 50 RB Offset

Area Scan (120.0 x 180.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.25 W/kg; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.396 W/kg
SAR(1 g) = 0.199 W/kg
Smallest distance from peaks to all points 3 dB below is 14.6 mm
Ratio of SAR at M2 to SAR at M1 = 79.4 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0247M

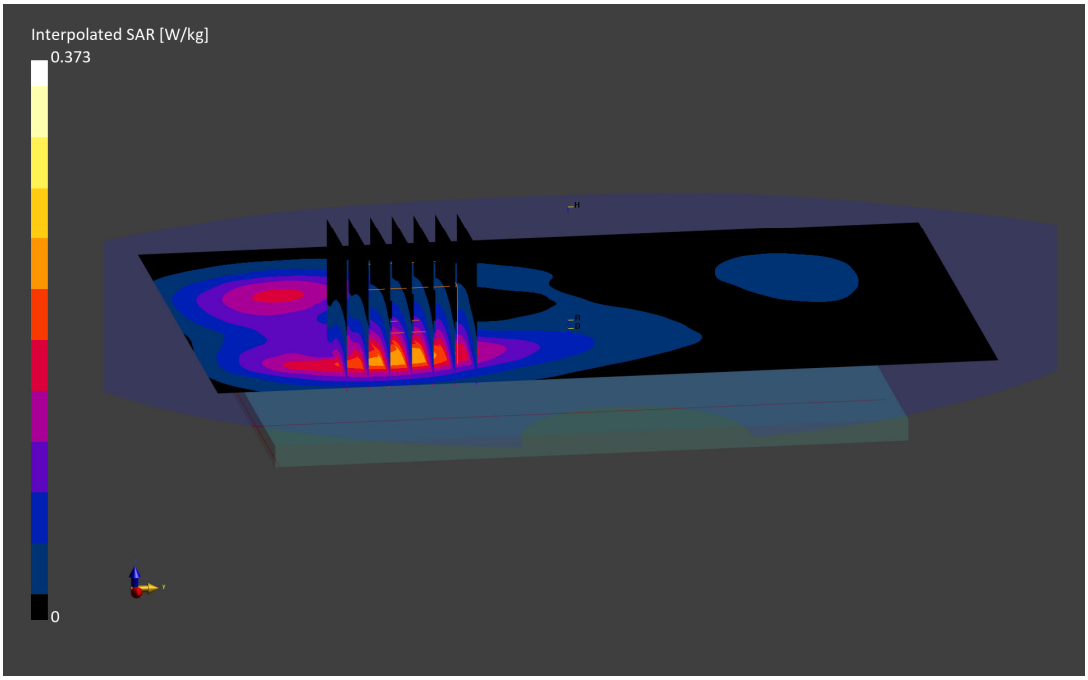
Communication System: UID:10172 - CAG, LTE-TDD; MAIA: Y; Frequency: 2549.5 MHz
Medium: 2450 Body; Medium parameters used:
f = 2549.5 MHz; cond = 2.12 S/m; perm = 50.7; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/22/2022; Ambient Temp: 23.0°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7410; ConvF:(7.45,7.45,7.45); Calibrated: 2022-07-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1583; Calibrated: 2022-07-18
Phantom: Twin-SAM V8.0; Serial: 1966
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: LTE Band 41, PC2, Antenna B, Body SAR, Back Side, Low-Mid Ch., 20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset

Area Scan (120.0 x 180.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.17 W/kg; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.373 W/kg
SAR(1 g) = 0.198 W/kg
Smallest distance from peaks to all points 3 dB below is 15.3 mm
Ratio of SAR at M2 to SAR at M1 = 80.6 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0265M

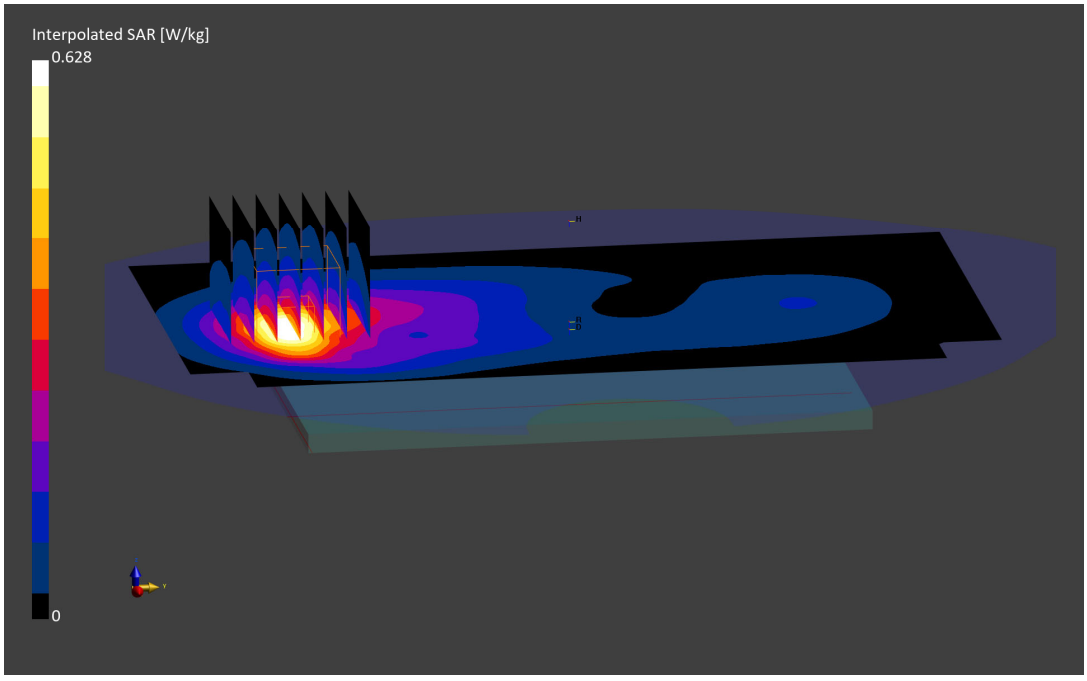
Communication System: UID:10773 - AAD, CW; MAIA: Y; Frequency: 1745.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1745.0 MHz; cond = 1.46 S/m; perm = 53.3; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/11/2022; Ambient Temp: 22.9°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7410; ConvF:(8.14,8.14,8.14); Calibrated: 2022-07-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1583; Calibrated: 2022-07-18
Phantom: Twin-SAM V8.0; Serial: 1966
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: NR Band n66, Antenna A, Body SAR, Back Side, Ch. 349000, 40 MHz Bandwidth, CP-OFDM QPSK, 1 RB, 1 RB Offset

Area Scan (120.0 x 210.0): Measurement grid: dx=15.0 mm, dy=15.0 mm
Zoom Scan (36.0 x 36.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.36 W/kg; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.628 W/kg
SAR(1 g) = 0.384 W/kg
Smallest distance from peaks to all points 3 dB below is 13.7 mm
Ratio of SAR at M2 to SAR at M1 = 85.0 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0234M

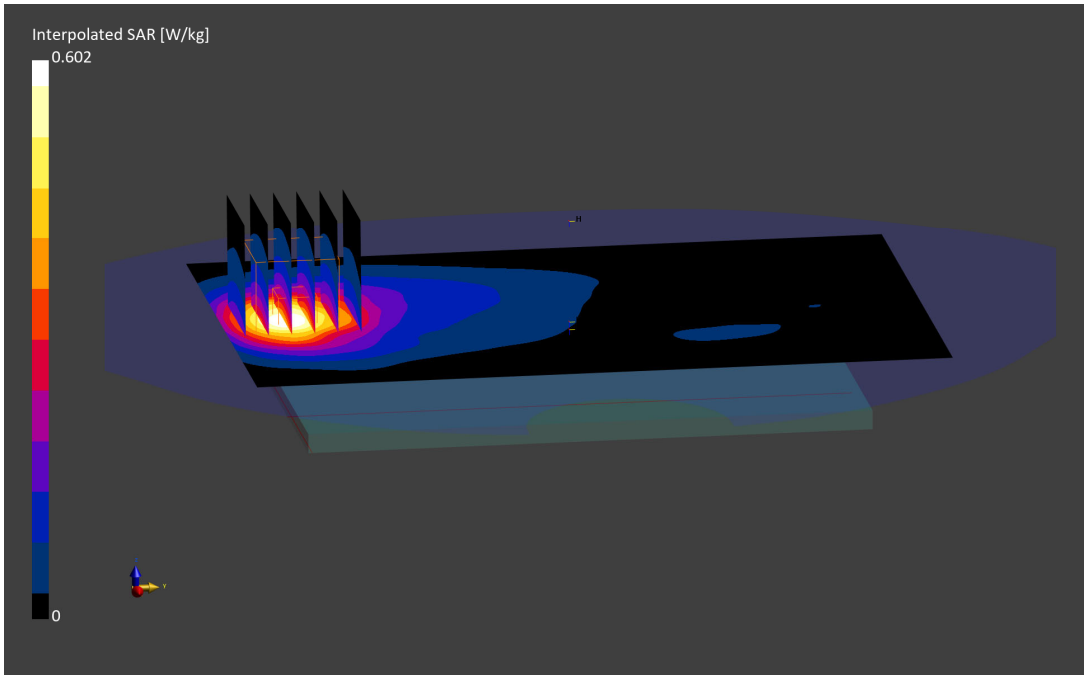
Communication System: UID:10950 - AAC, 5G NR FR1 FDD; MAIA: Y; Frequency: 1882.5 MHz
Medium: 1900 Body; Medium parameters used:
f = 1882.5 MHz; cond = 1.52 S/m; perm = 53.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/14/2022; Ambient Temp: 24.6-C; Tissue Temp: 23.8-C

Probe: EX3DV4 - SN7488; ConvF:(8.33,8.33,8.33); Calibrated: 2022-02-21
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1415; Calibrated: 2022-02-23
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: NR Band n25, Antenna A, Body SAR, Back Side, Ch. 376500, 40 MHz Bandwidth, DFT-s-OFDM QPSK, 216 RB, 0 RB Offset

Area Scan (120.0 x 180.0): Measurement grid: dx=15.0 mm, dy=15.0 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.40 W/kg; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.602 W/kg
SAR(1 g) = 0.360 W/kg
Smallest distance from peaks to all points 3 dB below is 13.5 mm
Ratio of SAR at M2 to SAR at M1 = 84.7 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0234M

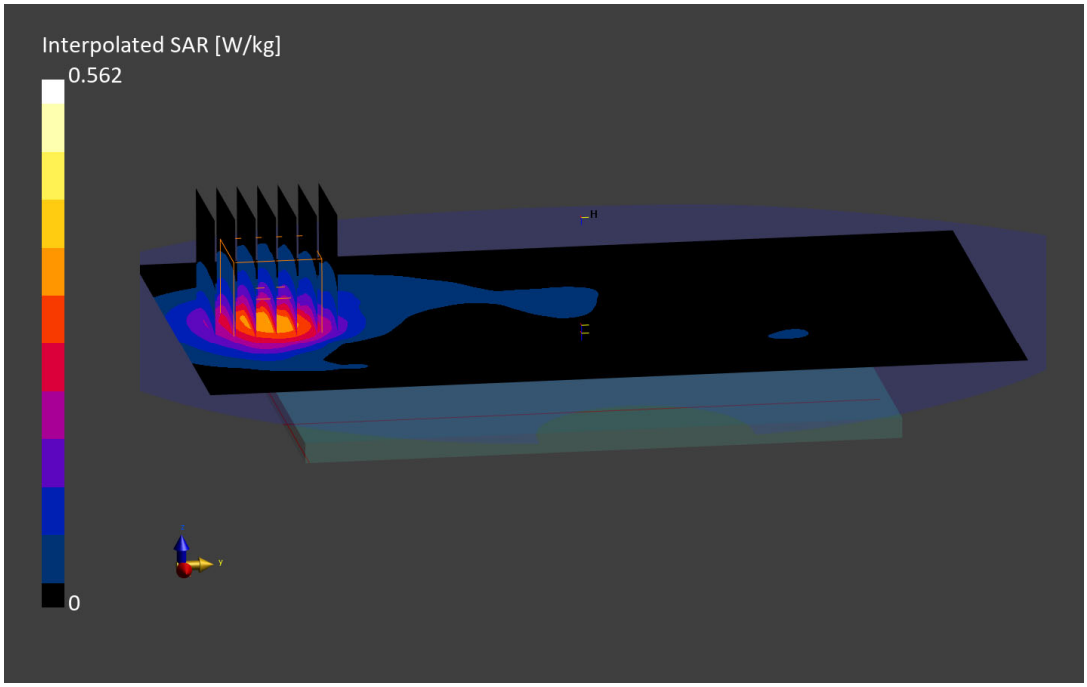
Communication System: UID:10937 - AAC, 5G NR FR1 FDD; MAIA: Y; Frequency: 2310.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2310.0 MHz; cond = 1.78 S/m; perm = 55.3; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/14/2022; Ambient Temp: 20.7°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7409; ConvF:(7.47,7.47,7.47); Calibrated: 2022-06-16
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1334; Calibrated: 2022-06-14
Phantom: Twin-SAM V5.0; Serial: 1792
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: NR Band n30, Antenna A, Body SAR, Back Side, Ch. 462000, 10 MHz Bandwidth, DFT-s-OFDM QPSK, 25 RB, 27 RB Offset

Area Scan (120.0 x 200.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.30 W/kg; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.562 W/kg
SAR(1 g) = 0.310 W/kg
Smallest distance from peaks to all points 3 dB below is 13.7 mm
Ratio of SAR at M2 to SAR at M1 = 82.3 %



ELEMENT

DUT: A3LSMS911U; Type: Portable Handset; Serial: 0305M

Communication System: UID:10942 - AAC, 5G NR FR1 FDD; MAIA: Y; Frequency: 2535.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2535.0 MHz; cond = 2.09 S/m; perm = 50.9; density = 1000 kg/m3
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/13/2022; Ambient Temp: 20.9°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7410; ConvF:(7.45,7.45,7.45); Calibrated: 2022-07-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1583; Calibrated: 2022-07-18
Phantom: Twin-SAM V8.0; Serial: 1966
Measurement SW: DASY Module SAR V16.2.0.1425

Mode: NR Band n7, Antenna B, Body SAR, Back Side, Ch. 507000, 40 MHz Bandwidth, DFT-s-OFDM QPSK, 108 RB, 54 RB Offset

Area Scan (120.0 x 200.0): Measurement grid: dx=10.0 mm, dy=10.0 mm
Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5
Reference Value = 0.19 W/kg; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.525 W/kg
SAR(1 g) = 0.214 W/kg
Smallest distance from peaks to all points 3 dB below is 14.4 mm
Ratio of SAR at M2 to SAR at M1 = 81.6 %