

APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0942M

Communication System: UID:10021 - DAC, GSM; MAIA: Y; Frequency: 1850.2 MHz

Medium: 1900 Body; Medium parameters used:

f = 1850.2 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: GSM 1900, 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

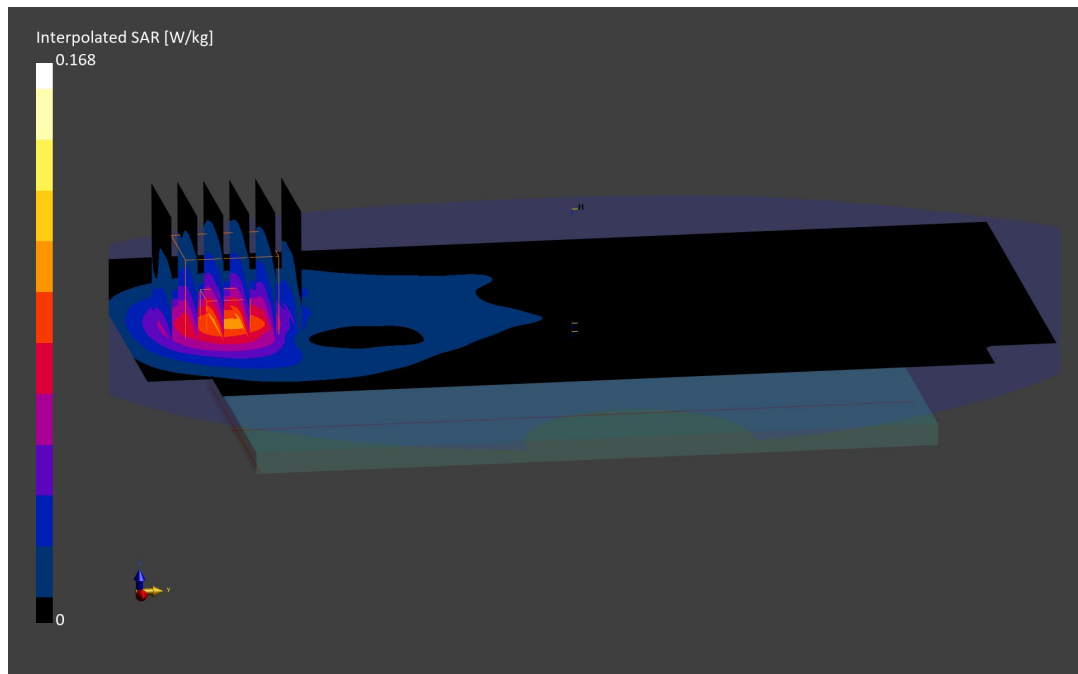
Reference Value = 0.10 W/kg; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.168 W/kg

SAR(1 g) = 0.095 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 = 81.2 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0942M

Communication System: UID:10011 - CAB, WCDMA; MAIA: Y; Frequency: 1752.6 MHz

Medium: 1750 Body; Medium parameters used:

f = 1752.6 MHz; cond = 1.55 S/m; perm = 51.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/08/2022; Ambient Temp: 23.1°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7406; ConvF:(8.06,8.06,8.06); Calibrated: 2022-07-18

Sensor-Surface: 1.4mm (All points)

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, High 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

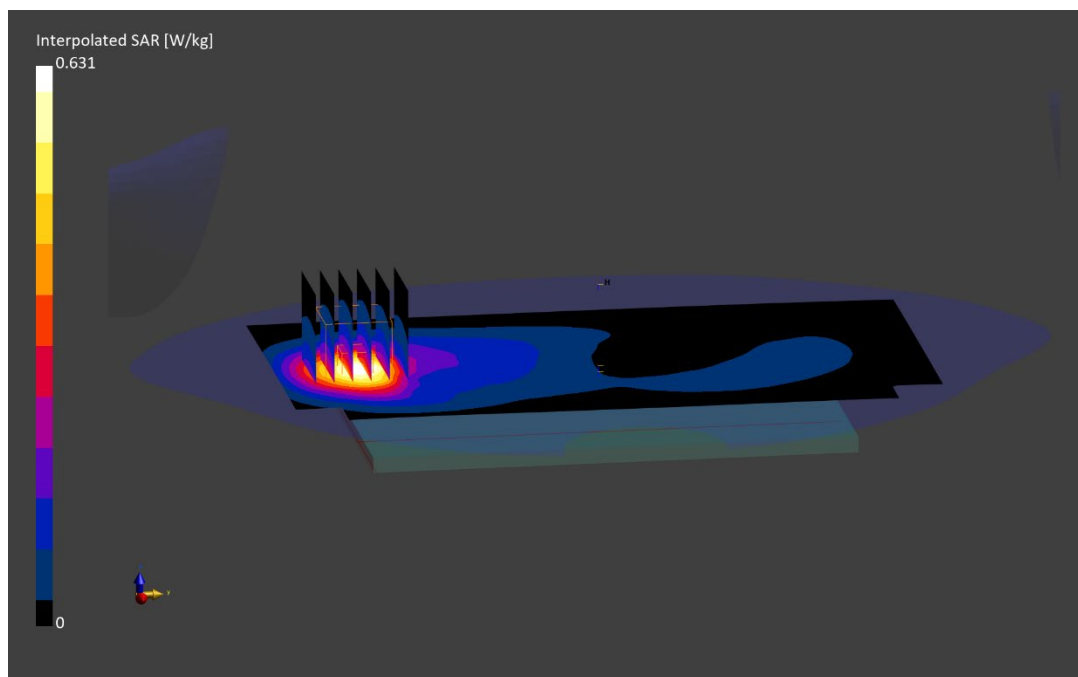
Reference Value = 0.32 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.631 W/kg

SAR(1 g) = 0.361 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 = 82.8 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0942M

Communication System: UID:10011 - CAC, WCDMA; MAIA: Y; Frequency: 1907.6 MHz

Medium: 1900 Body; Medium parameters used:

f = 1907.6 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: UMTS 1900, Body SAR, Back Side, High 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

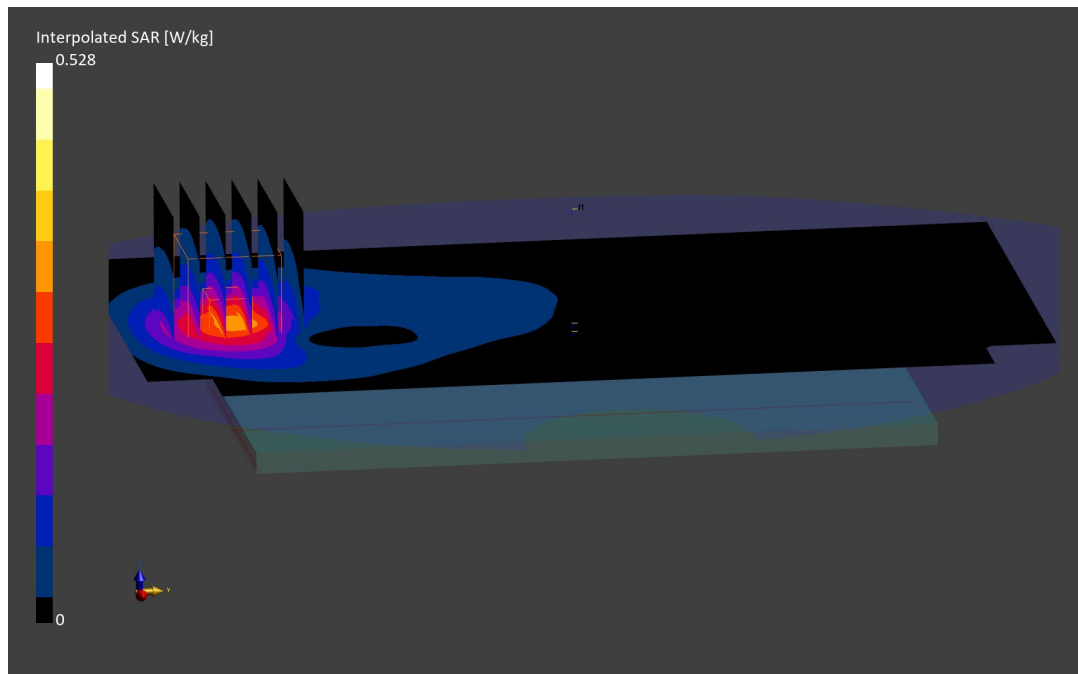
Reference Value = 0.30 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.302 W/kg

Smallest distance from peaks to all points 3 dB below is 12.0 mm

Ratio of SAR at M2 to SAR at M1 = 81.8 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0942M

Communication System: UID:10154 - CAG, LTE-FDD; MAIA: Y; Frequency: 1745.0 MHz

Medium: 1750 Body; Medium parameters used:

f = 1745.0 MHz; cond = 1.54 S/m; perm = 51.0; density = 1000 kg/m³

Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/08/2022; Ambient Temp: 23.1°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7406; ConvF:(8.06,8.06,8.06); Calibrated: 2022-07-18

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn1677; Calibrated: 2022-07-18

Phantom: Twin-SAM V8.0; Serial: 2064

Measurement SW: DASY Module SAR V16.2.0.1425

**Mode: LTE Band 66 (AWS), Antenna A, Body SAR, Back Side, Mid Ch.,
10 MHz Bandwidth, QPSK, 25 RB, 25 RB Offset**

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

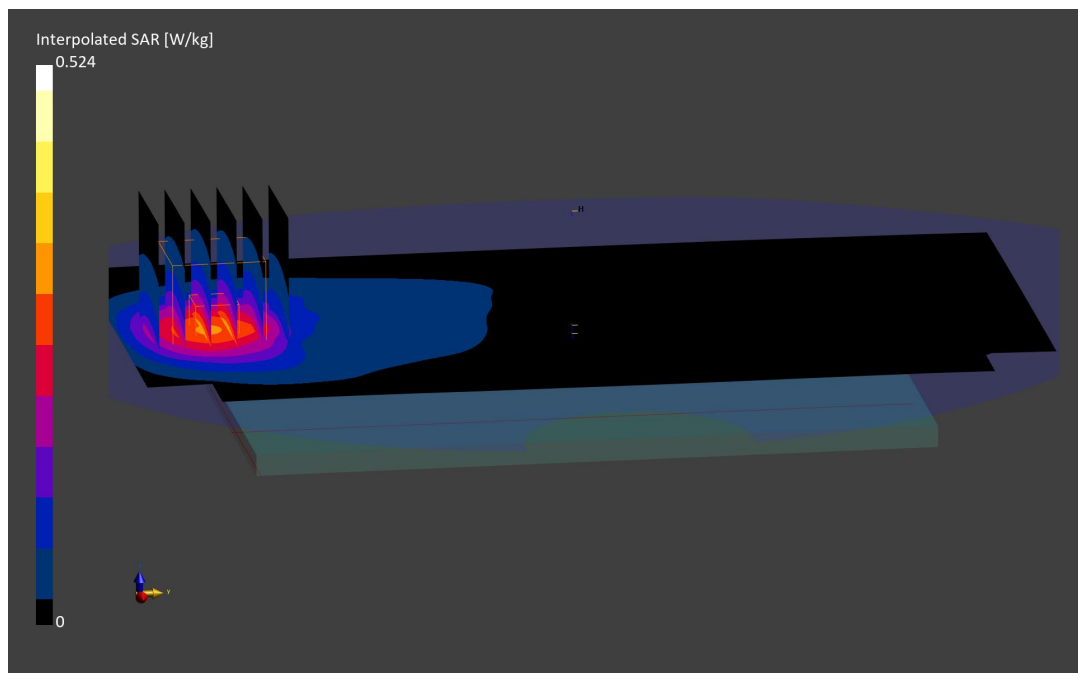
Reference Value = 0.26 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.524 W/kg

SAR(1 g) = 0.301 W/kg

Smallest distance from peaks to all points 3 dB below is 13.3 mm

Ratio of SAR at M2 to SAR at M1 = 82.8 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0942M

Communication System: UID:10169 - CAF, LTE-FDD; MAIA: Y; Frequency: 1860.0 MHz

Medium: 1900 Body; Medium parameters used:

f = 1860.0 MHz; cond = 1.50 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: LTE Band 25, Antenna A, Body SAR, Back side, Low Ch.,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

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

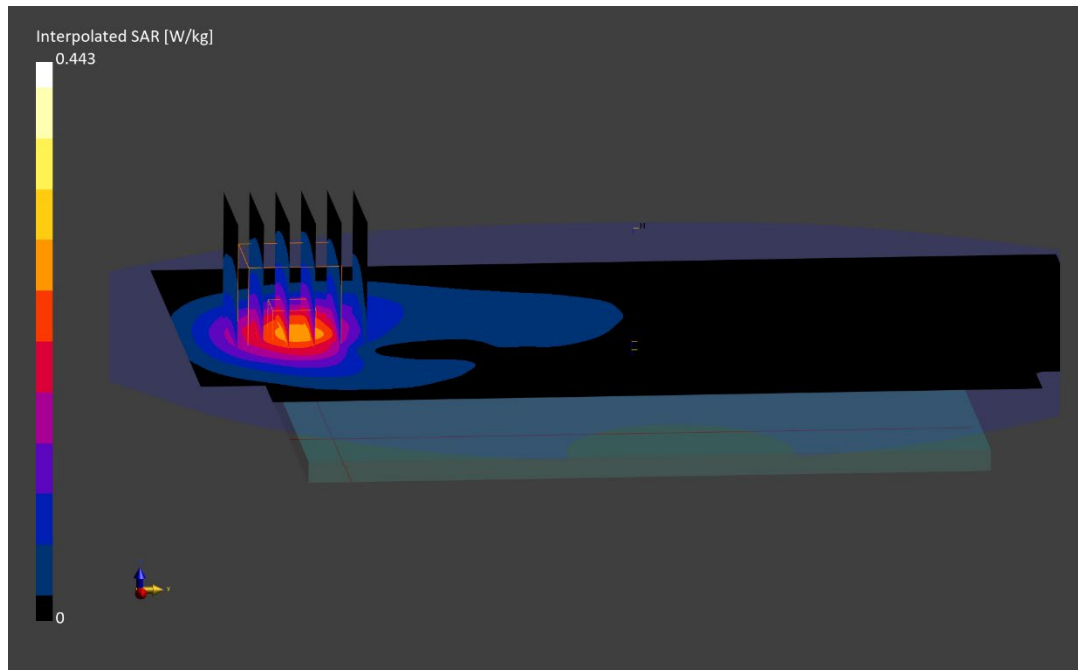
Reference Value = 0.26 W/kg; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.443 W/kg

SAR(1 g) = 0.254 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 = 82.7 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0973M

Communication System: UID:10175 - CAG, LTE-FDD; MAIA: Y; Frequency: 2310.0 MHz

Medium: 2450 Body; Medium parameters used:

f = 2310.0 MHz; cond = 1.78 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: LTE Band 30, Antenna A, Body SAR, Back Side, Mid Ch.,
10 MHz Bandwidth, QPSK, 1 RB, 0 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

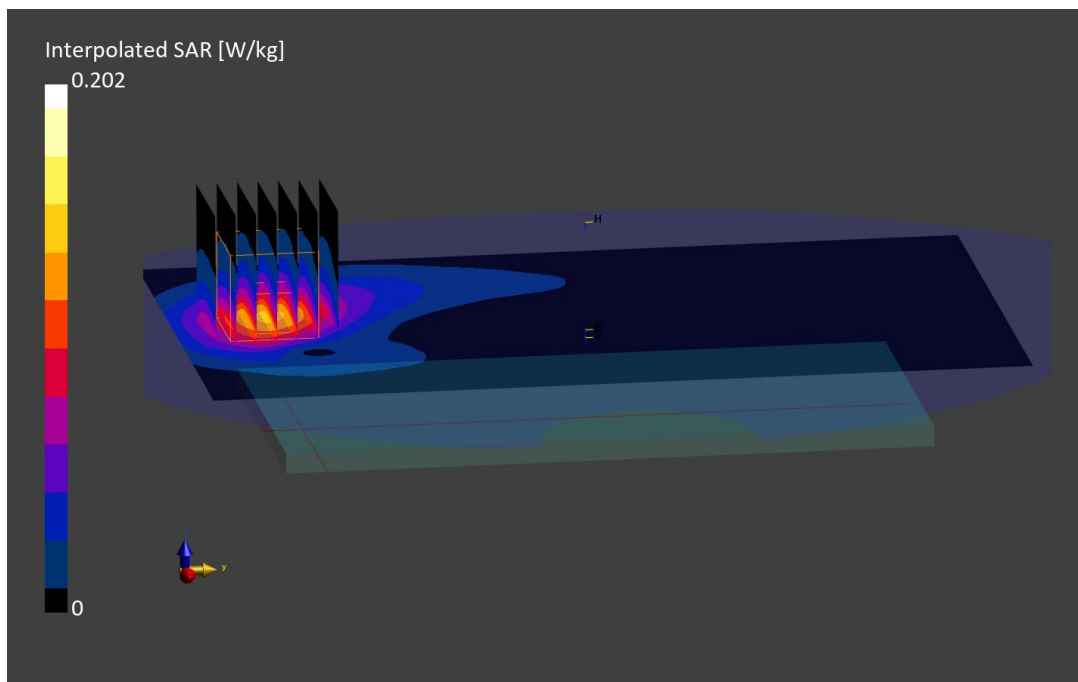
Reference Value = 0.11 W/kg; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.202 W/kg

SAR(1 g) = 0.115 W/kg

Smallest distance from peaks to all points 3 dB below is 15.9 mm

Ratio of SAR at M2 to SAR at M1 = 83.0 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0957M

Communication System: UID:10169 - CAE, LTE-FDD; MAIA: Y; Frequency: 2510.0 MHz

Medium: 2450 Body; Medium parameters used:

f = 2510.0 MHz; cond = 2.08 S/m; perm = 51.2; 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:(7.38,7.38,7.38); 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, Low Ch.,
20 MHz Bandwidth, QPSK, 1 RB, 50 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

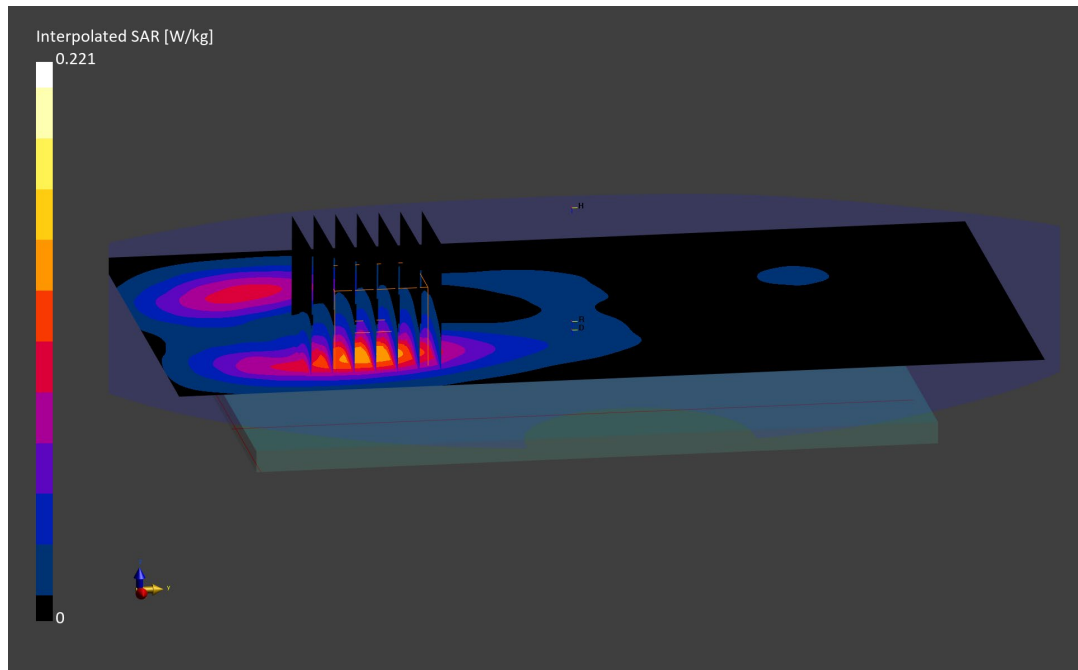
Reference Value = 0.15 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.113 W/kg

Smallest distance from peaks to all points 3 dB below is 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 81.0 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0957M

Communication System: UID:10435 - AAF, LTE-TDD; MAIA: Y; Frequency: 2593.0 MHz

Medium: 2450 Body; Medium parameters used:

f = 2593.0 MHz; cond = 2.19 S/m; perm = 50.8; 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 41, Antenna B, Body SAR, Back Side, Mid Ch.,
20 MHz Bandwidth, QPSK, 1 RB, 99 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

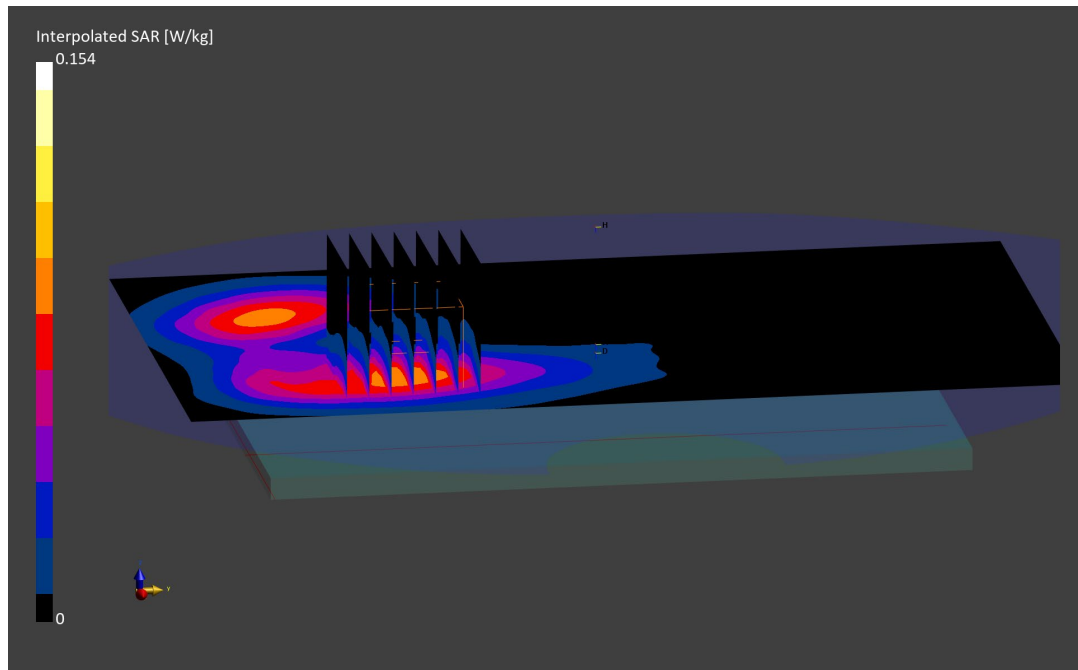
Reference Value = 0.09 W/kg; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.154 W/kg

SAR(1 g) = 0.075 W/kg

Smallest distance from peaks to all points 3 dB below is 15.6 mm

Ratio of SAR at M2 to SAR at M1 = 78.0 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0973M

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

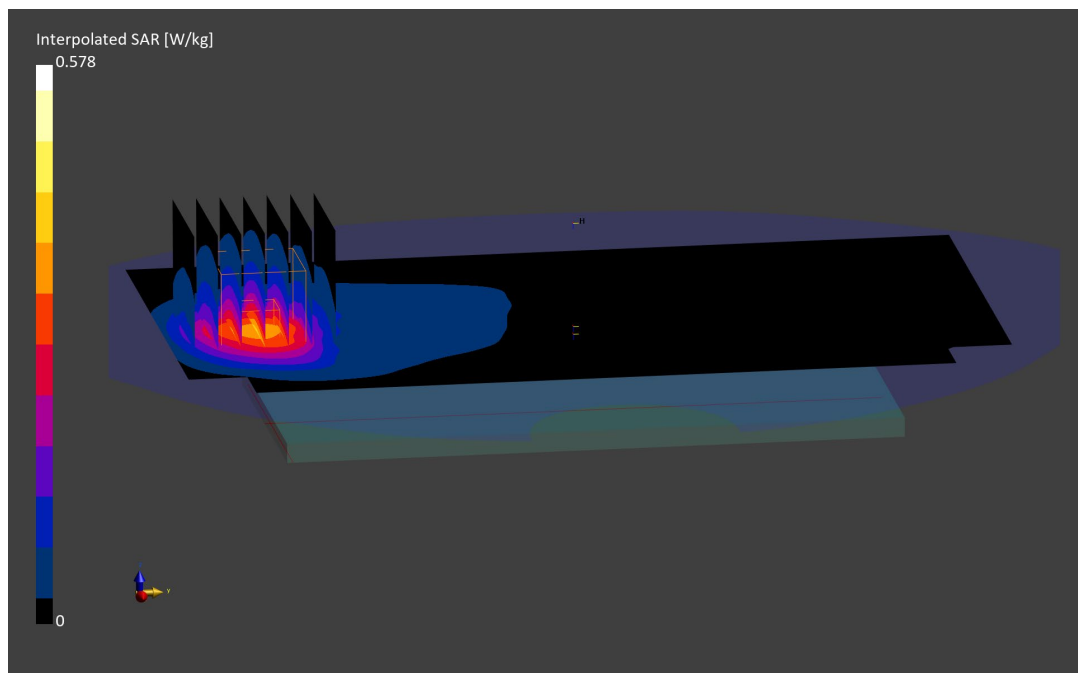
Reference Value = 0.33 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.349 W/kg

Smallest distance from peaks to all points 3 dB below is 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 84.9 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0973M

Communication System: UID:10773 - AAD, CW; MAIA: Y; Frequency: 1882.5 MHz
Medium: 1900 Body; Medium parameters used:
f = 1882.5 MHz; cond = 1.48 S/m; perm = 53.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 15.00 mm

Test Date: 12/12/2022; Ambient Temp: 20.0°C; Tissue Temp: 22.5°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, 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 (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

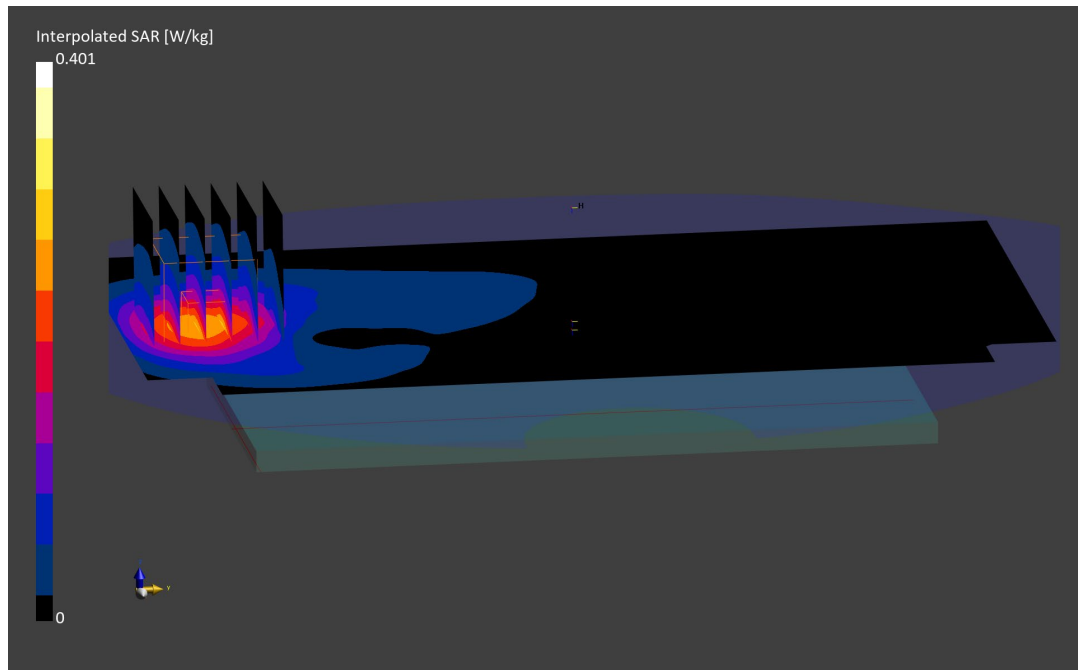
Reference Value = 0.26 W/kg; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.241 W/kg

Smallest distance from peaks to all points 3 dB below is 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 84.9 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0957M

Communication System: UID:10768 - AAD, CW; 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, CP-OFDM QPSK, 1 RB, 1 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

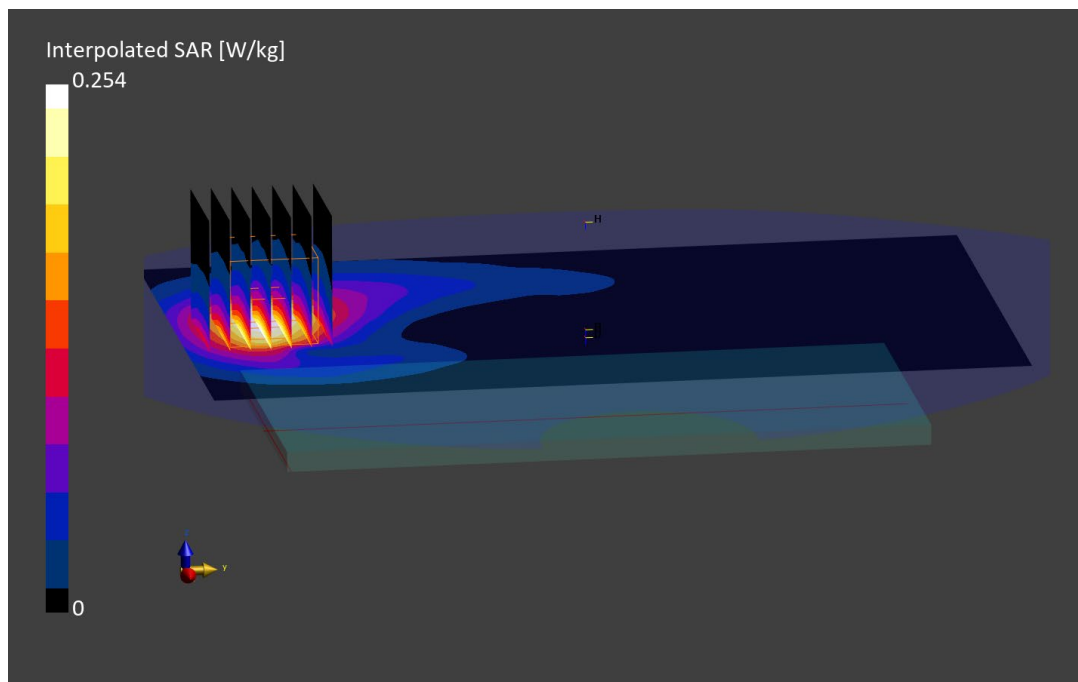
Reference Value = 0.13 W/kg; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.140 W/kg

Smallest distance from peaks to all points 3 dB below is 15.1 mm

Ratio of SAR at M2 to SAR at M1 = 81.5 %



ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: 0973M

Communication System: UID:10934 - 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, 1 RB, 108 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 = 0.12 W/kg; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.247 W/kg

SAR(1 g) = 0.130 W/kg

Smallest distance from peaks to all points 3 dB below is 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 80.7 %

