

APPENDIX A: SAR TEST DATA

PCTEST

DUT: A3LSMG996U; Type: Portable Handset; Serial: 0873M

Communication System: UID 0, NR Band n48; Frequency: 3570 MHz; Duty Cycle: 1:1
Medium: 3600 Head; Medium parameters used (interpolated):
 $f = 3570$ MHz; $\sigma = 2.889$ S/m; $\epsilon_r = 36.992$; $\rho = 1000$ kg/m³
Phantom section: Right Section

Test Date: 11/09/2020; Ambient Temp: 23.1°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7539; ConvF(6.76, 6.76, 6.76) @ 3570 MHz; Calibrated: 10/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/20/2020
Phantom: Twin-SAM V8.0 (20); Type: QD 000 P41 Ax; Serial: 1966
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n48, Right Head, Cheek, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 638000, 1 RB, 104 RB Offset**

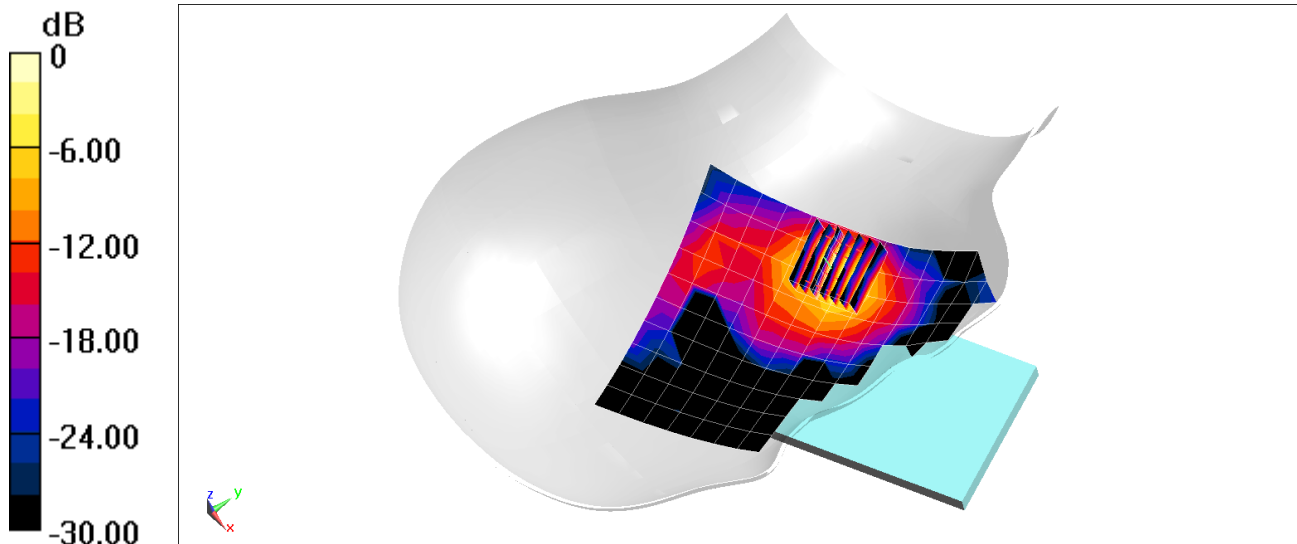
Area Scan (11x16x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 15.17 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.447 W/kg



0 dB = 0.935 W/kg = -0.29 dBW/kg

PCTEST

DUT: A3LSMG996U; Type: Portable Handset; Serial: 0873M

Communication System: UID 0, NR Band n48; Frequency: 3570 MHz; Duty Cycle: 1:1

Medium: 3600 Body; Medium parameters used (interpolated):

$f = 3570 \text{ MHz}$; $\sigma = 3.251 \text{ S/m}$; $\epsilon_r = 49.96$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 11/09/2020; Ambient Temp: 23.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7539; ConvF(6.5, 6.5, 6.5) @ 3570 MHz; Calibrated: 10/20/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn728; Calibrated: 5/20/2020

Phantom: Twin-SAM V5.0 (left 20); Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n48, Body SAR, Back side, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 638000, 50 RB, 28 RB Offset**

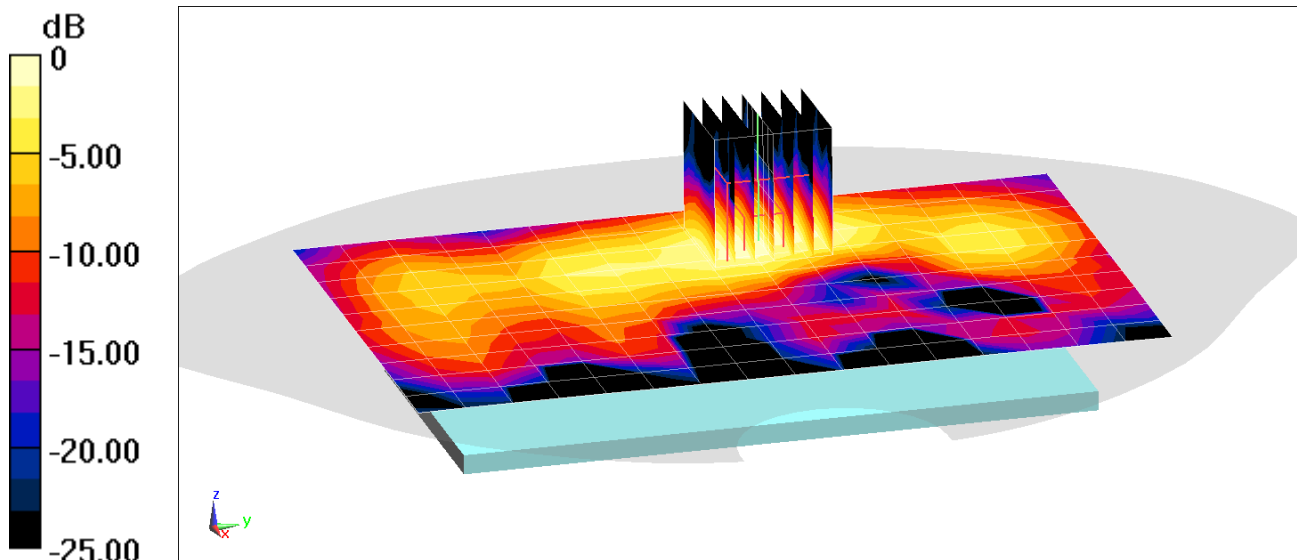
Area Scan (11x17x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 6.383 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.284 W/kg

SAR(1 g) = 0.119 W/kg



0 dB = 0.212 W/kg = -6.74 dBW/kg

PCTEST

DUT: A3LSMG996U; Type: Portable Handset; Serial: 0873M

Communication System: UID 0, NR Band n48; Frequency: 3624.99 MHz; Duty Cycle: 1:1
Medium: 3600 Body; Medium parameters used (interpolated):
 $f = 3624.99$ MHz; $\sigma = 3.313$ S/m; $\epsilon_r = 49.865$; $\rho = 1000$ kg/m³
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 11/09/2020; Ambient Temp: 23.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7539; ConvF(6.48, 6.48, 6.48) @ 3624.99 MHz; Calibrated: 10/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/20/2020
Phantom: Twin-SAM V5.0 (left 20); Type: QD 000 P40 CD; Serial: 1630
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n48, Body SAR, Right Edge, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 641666, 1 RB, 1 RB Offset**

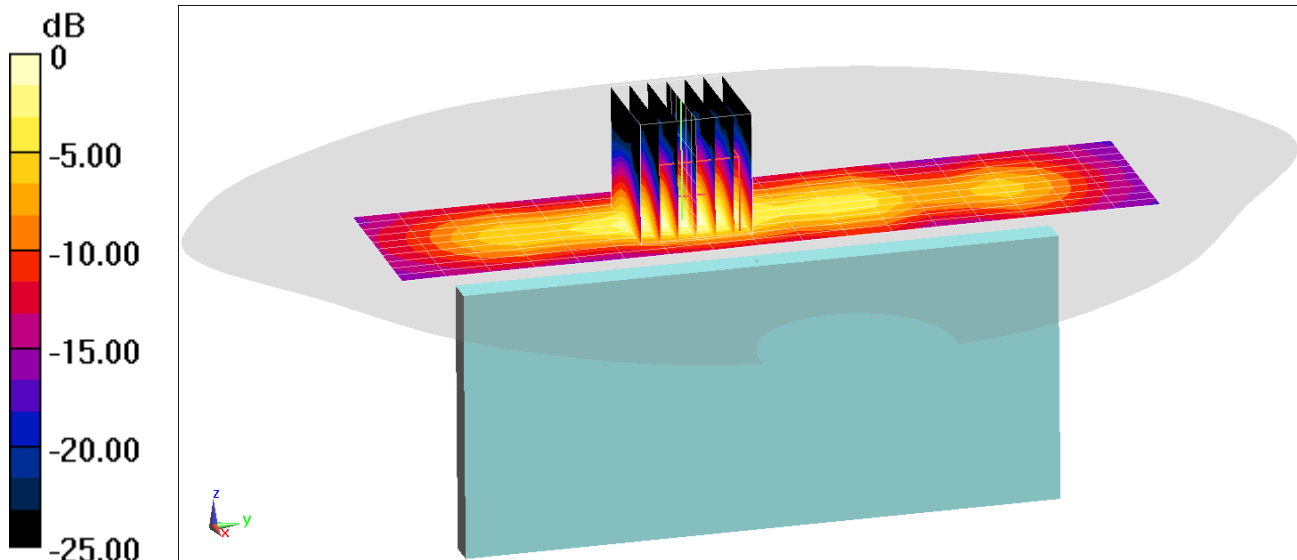
Area Scan (11x18x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 11.88 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.405 W/kg



0 dB = 0.769 W/kg = -1.14 dBW/kg

PCTEST

DUT: A3LSMG996U; Type: Portable Handset; Serial: 0873M

Communication System: UID 0, NR Band n48; Frequency: 3679.98 MHz; Duty Cycle: 1:1
Medium: 3600 Body; Medium parameters used (interpolated):
 $f = 3679.98 \text{ MHz}$; $\sigma = 3.559 \text{ S/m}$; $\epsilon_r = 49.085$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12/01/2020; Ambient Temp: 23.1°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7539; ConvF(6.48, 6.48, 6.48) @ 3679.98 MHz; Calibrated: 10/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface D100etection)
Electronics: DAE4 Sn728; Calibrated: 5/20/2020
Phantom: Twin-SAM V8.0 (20); Type: QD 000 P41 Ax; Serial: 1966
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n48, Phablet SAR, Right Edge, 40 MHz Bandwidth
DFT-s-OFDM QPSK, Ch. 645332, 50 RB, 28 RB Offset**

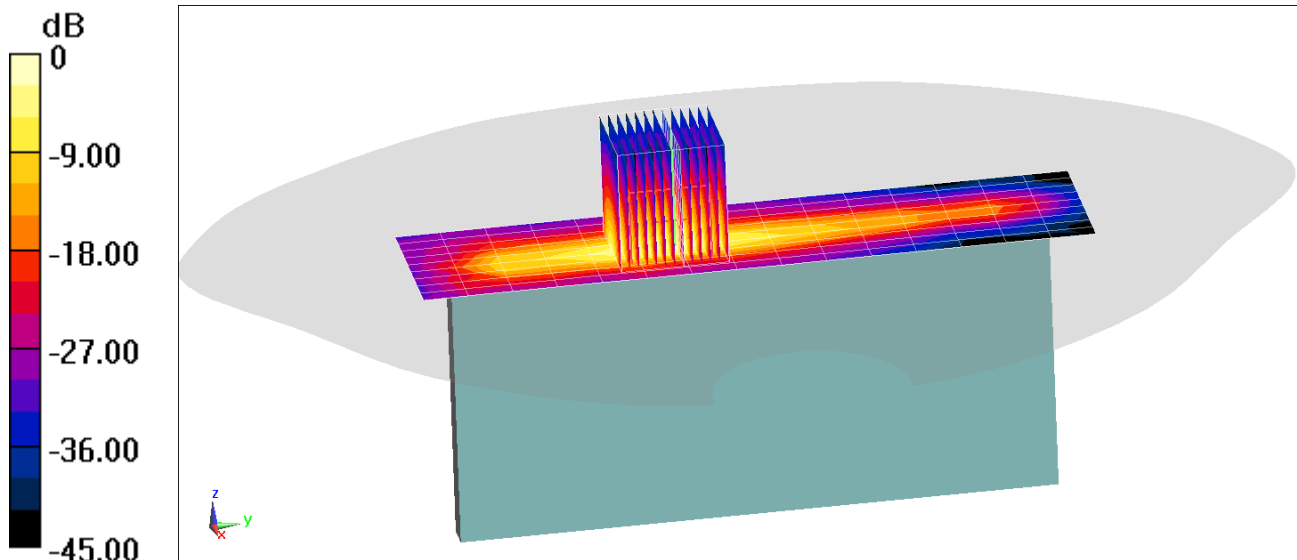
Area Scan (10x16x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.4mm, dy=2.4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 54.36 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 44.2 W/kg

SAR(10 g) = 2.23 W/kg



0 dB = 23.0 W/kg = 13.62 dBW/kg