

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5310MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5310 MHz; Medium parameters used: $f = 5310$ MHz; $\sigma = 5.41$ S/m; $\epsilon_r = 49.27$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5310MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.827 W/kg

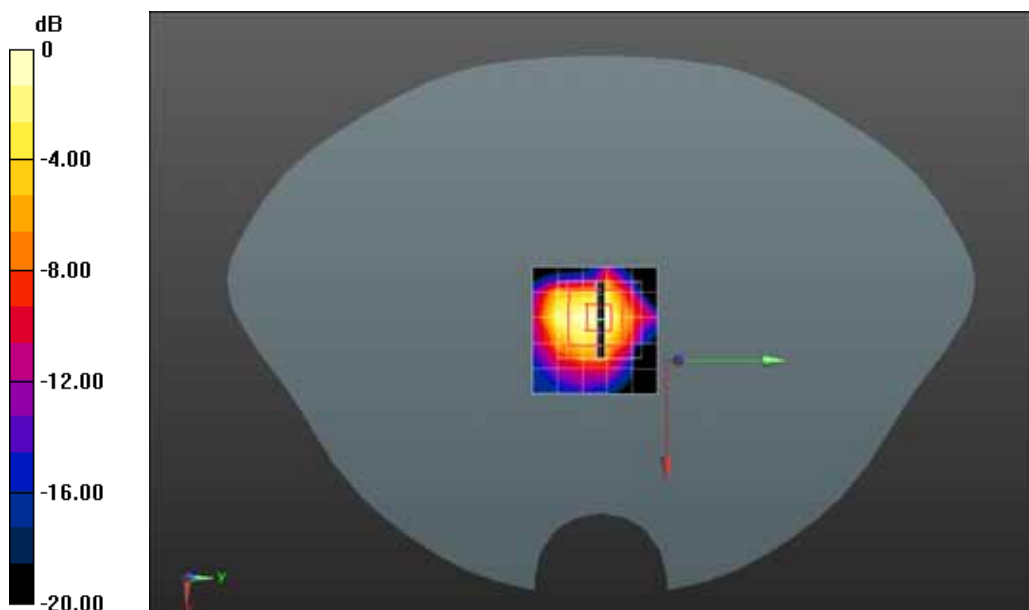
Configuration/802.11ac40 5310MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 12.47 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 0.872 W/kg



0 dB = 0.872 W/kg = -0.59 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5310MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5310 MHz; Medium parameters used: $f = 5310$ MHz; $\sigma = 5.41$ S/m; $\epsilon_r = 49.27$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5310MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.21 W/kg

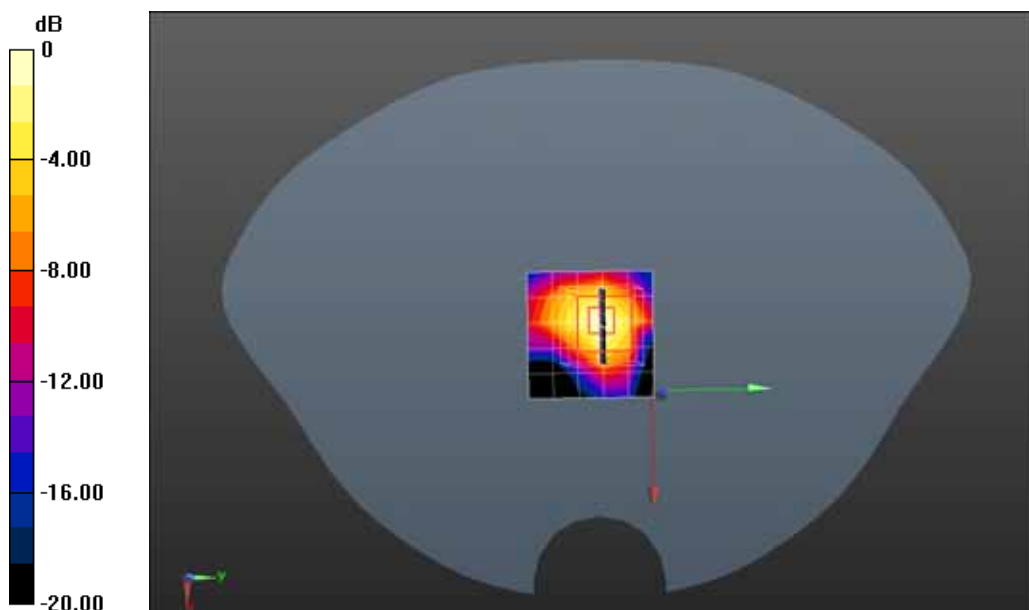
Configuration/802.11ac40 5310MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 15.06 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.299 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5310MHz Body- Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5310 MHz; Medium parameters used: $f = 5310$ MHz; $\sigma = 5.41$ S/m; $\epsilon_r = 49.27$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5310MHz Body-Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.737 W/kg

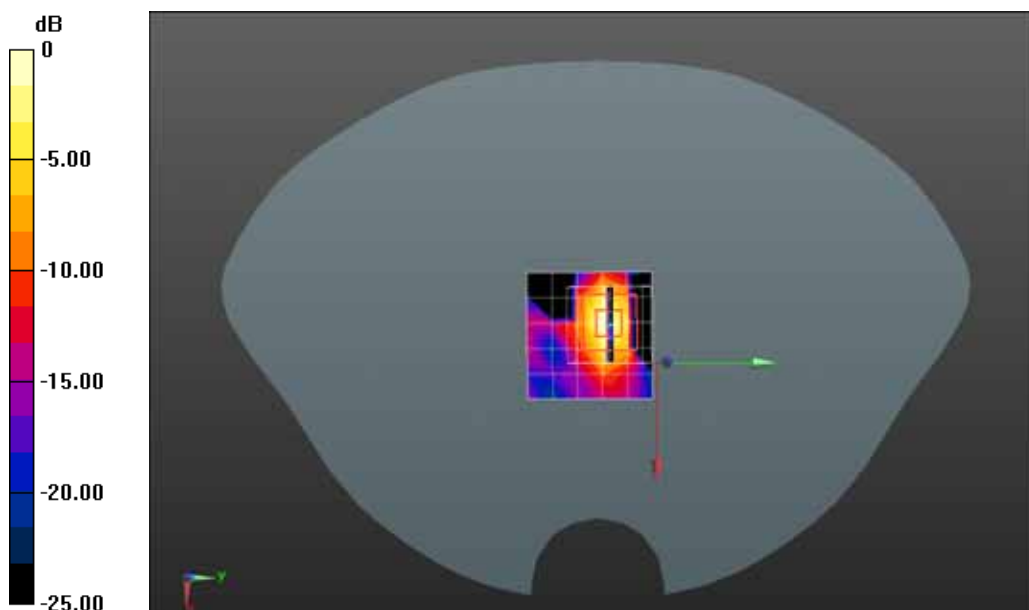
Configuration/802.11ac40 5310MHz Body-Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 11.51 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.365 W/kg; SAR(10 g) = 0.164 W/kg

Maximum value of SAR (measured) = 0.732 W/kg



0 dB = 0.732 W/kg = -1.35 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5310MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5310 MHz; Medium parameters used: $f = 5310$ MHz; $\sigma = 5.41$ S/m; $\epsilon_r = 49.27$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5310MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

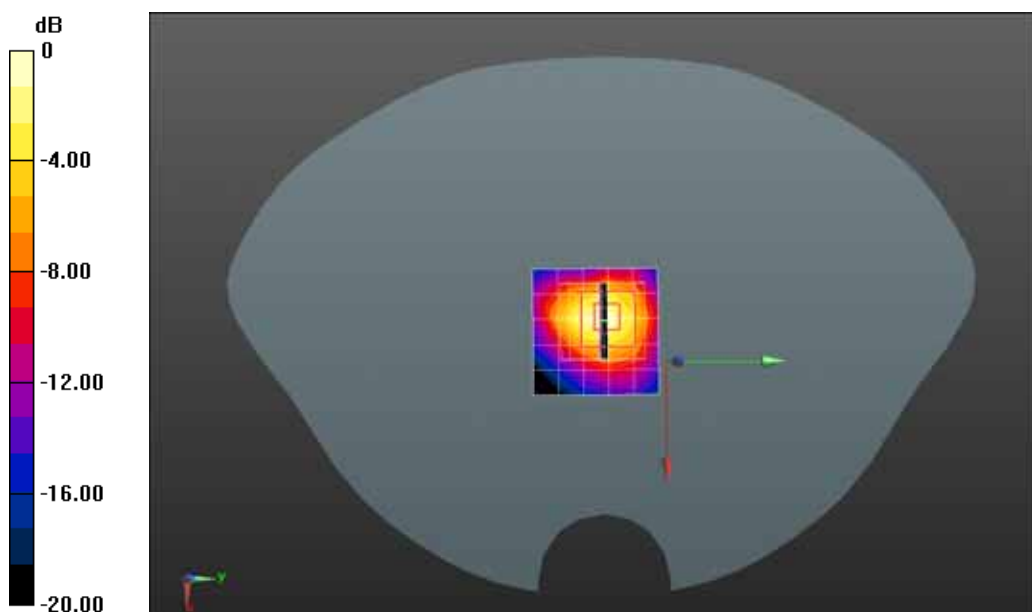
Maximum value of SAR (measured) = 1.50 W/kg

Configuration/802.11ac40 5310MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 17.06 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.404 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5310MHz Body-Vertical Front*

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5310 MHz; Medium parameters used: $f = 5310$ MHz; $\sigma = 5.41$ S/m; $\epsilon_r = 49.27$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5310MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.13 W/kg

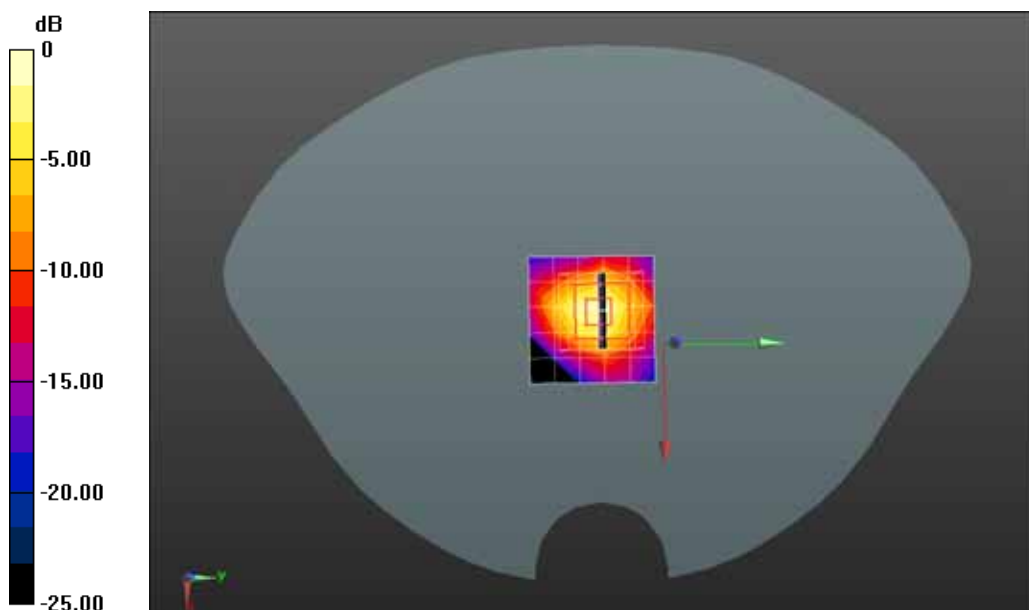
Configuration/802.11ac40 5310MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 10.61 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.347 W/kg

Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.14 W/kg = 0.41 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5310MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5310 MHz; Medium parameters used: $f = 5310$ MHz; $\sigma = 5.41$ S/m; $\epsilon_r = 49.27$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5310MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

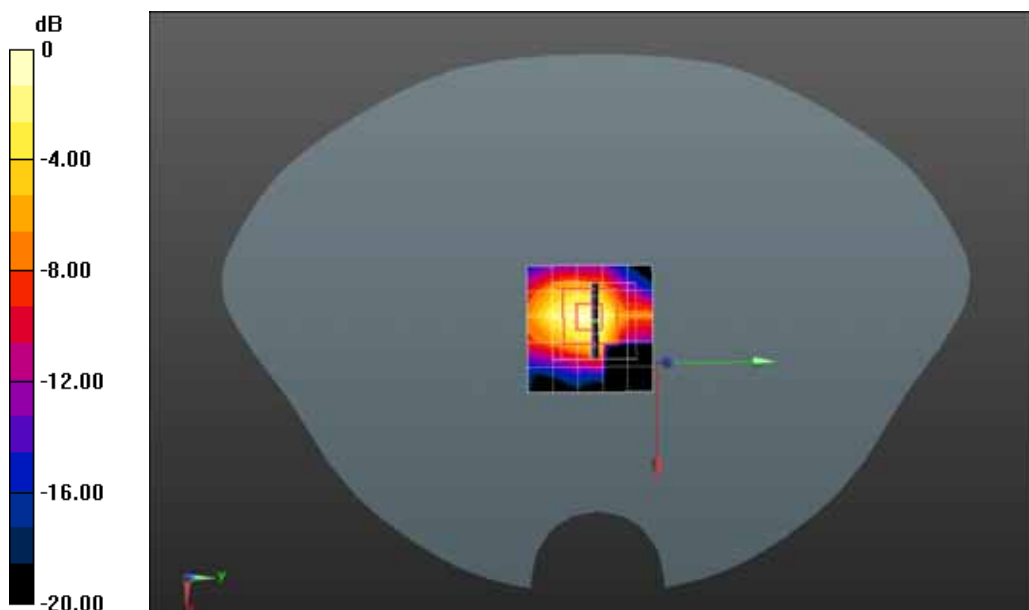
Maximum value of SAR (measured) = 0.082 W/kg

Configuration/802.11ac40 5310MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 4.71 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.31 W/kg

SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.10 W/kg



0 dB = 0.10 W/kg = -20.41 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5270MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5270 MHz; Medium parameters used: $f = 5270$ MHz; $\sigma = 5.36$ S/m; $\epsilon_r = 49.36$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5270MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.31 W/kg

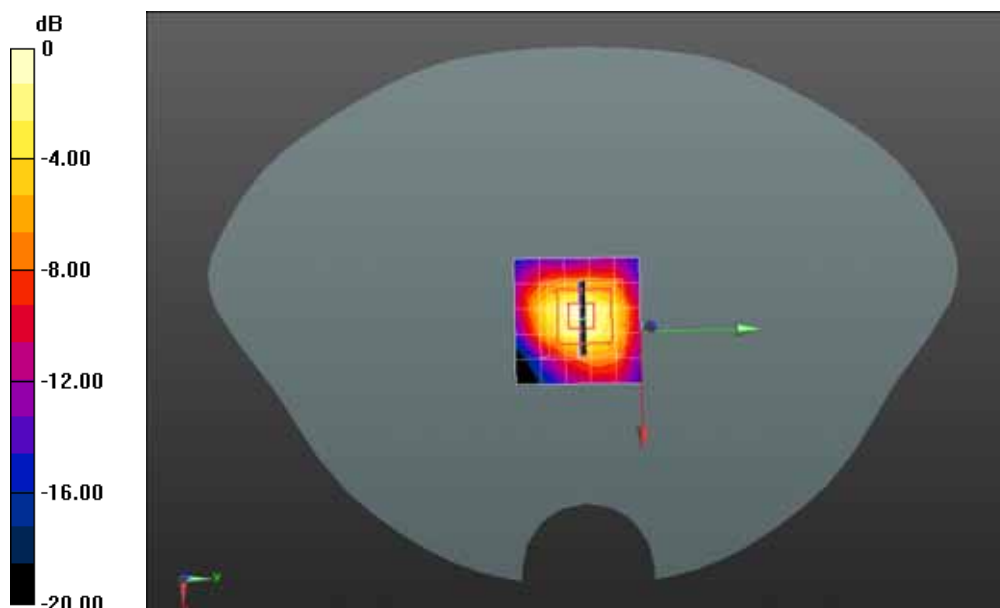
Configuration/802.11ac40 5270MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 17.88 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 3.90 W/kg

SAR(1 g) = 0.703 W/kg; SAR(10 g) = 0.471 W/kg

Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5270MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5270 MHz; Medium parameters used: $f = 5270$ MHz; $\sigma = 5.36$ S/m; $\epsilon_r = 49.36$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5270MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.89 W/kg

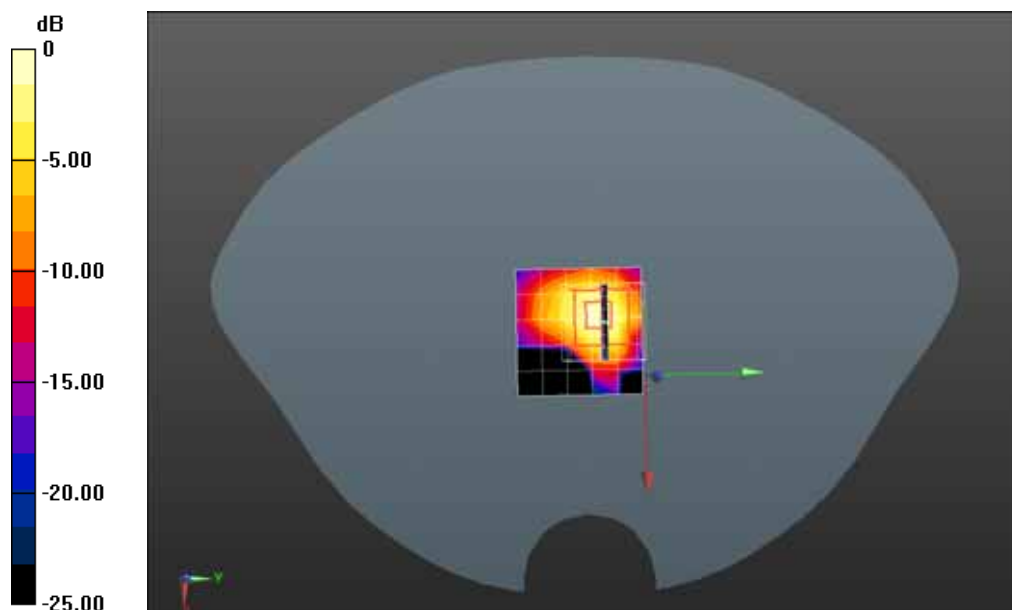
Configuration/802.11ac40 5270MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 3.52 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 0.423 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 0.76 W/kg



0 dB = 0.76 W/kg = 1.04 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5290MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5290 MHz; Medium parameters used: $f = 5290$ MHz; $\sigma = 5.39$ S/m; $\epsilon_r = 49.32$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5290MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.05 W/kg

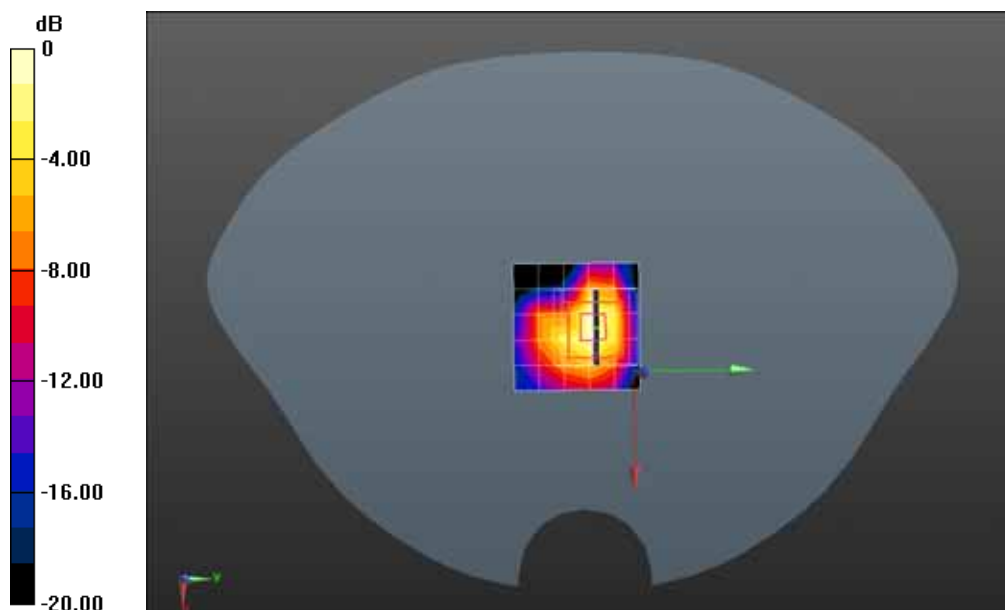
Configuration/802.11ac80 5290MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 14.64 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 0.544 W/kg; SAR(10 g) = 0.317 W/kg

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5290MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5290 MHz; Medium parameters used: $f = 5290$ MHz; $\sigma = 5.39$ S/m; $\epsilon_r = 49.32$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5290MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.34 W/kg

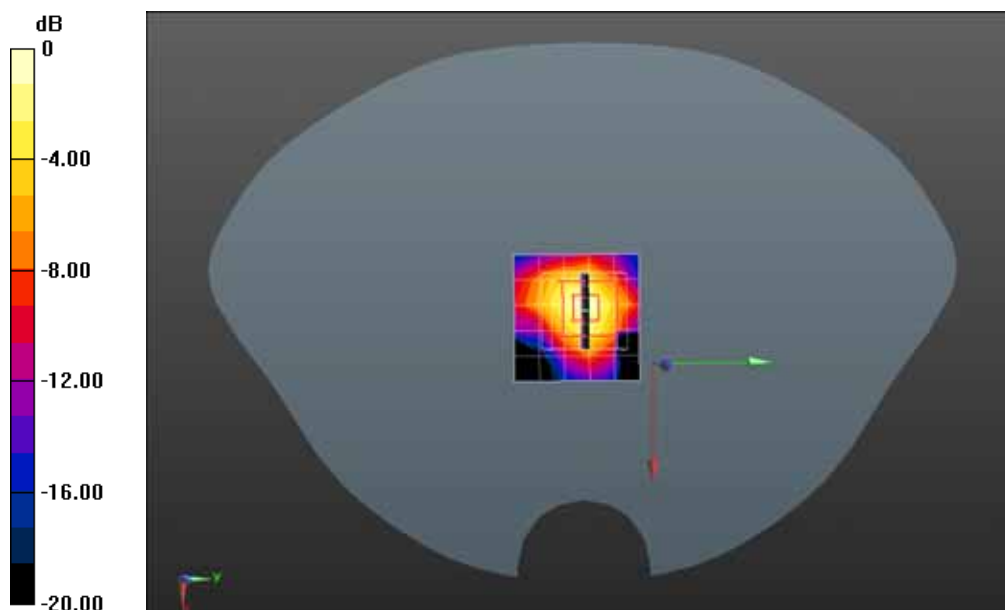
Configuration/802.11ac80 5290MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 16.60 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.28 W/kg

SAR(1 g) = 0.618 W/kg; SAR(10 g) = 0.398 W/kg

Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg = 1.17 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5290MHz Body-Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5290 MHz; Medium parameters used: $f = 5290$ MHz; $\sigma = 5.39$ S/m; $\epsilon_r = 49.32$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5290MHz Body-Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.868 W/kg

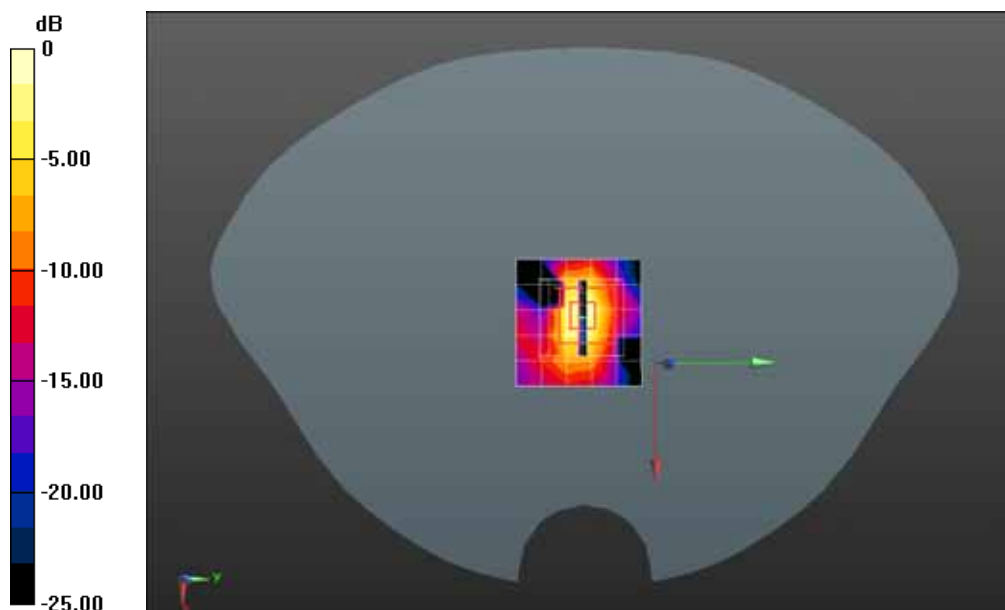
Configuration/802.11ac80 5290MHz Body-Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 14.41 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.65 W/kg

SAR(1 g) = 0.481 W/kg; SAR(10 g) = 0.252 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5290MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5290 MHz; Medium parameters used: $f = 5290$ MHz; $\sigma = 5.39$ S/m; $\epsilon_r = 49.32$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5290MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.48 W/kg

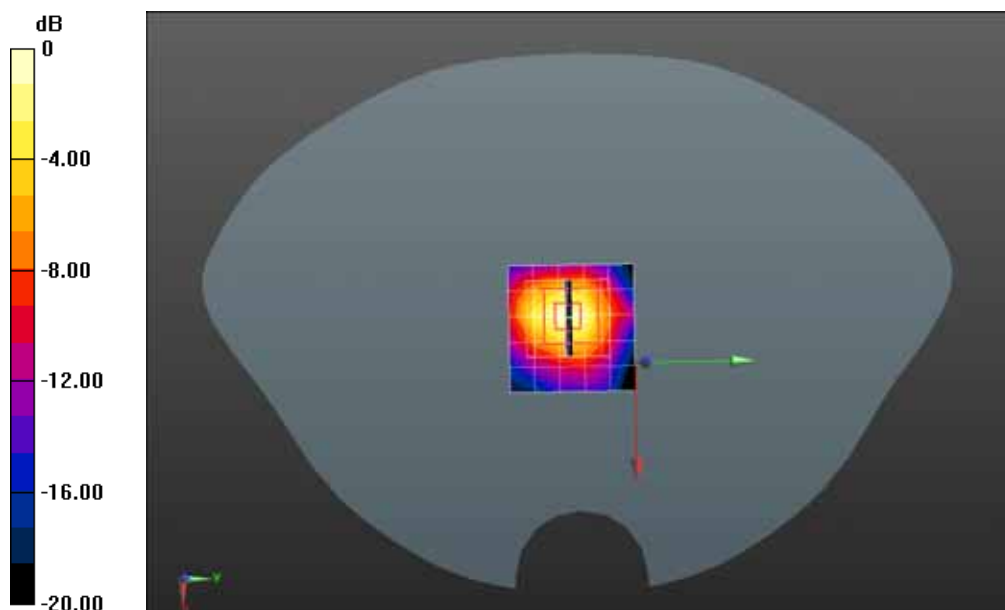
Configuration/802.11ac80 5290MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 16.10 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 4.14 W/kg

SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.447 W/kg

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5290MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5290 MHz; Medium parameters used: $f = 5290$ MHz; $\sigma = 5.39$ S/m; $\epsilon_r = 49.32$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(4.35, 4.35, 4.35); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5290MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

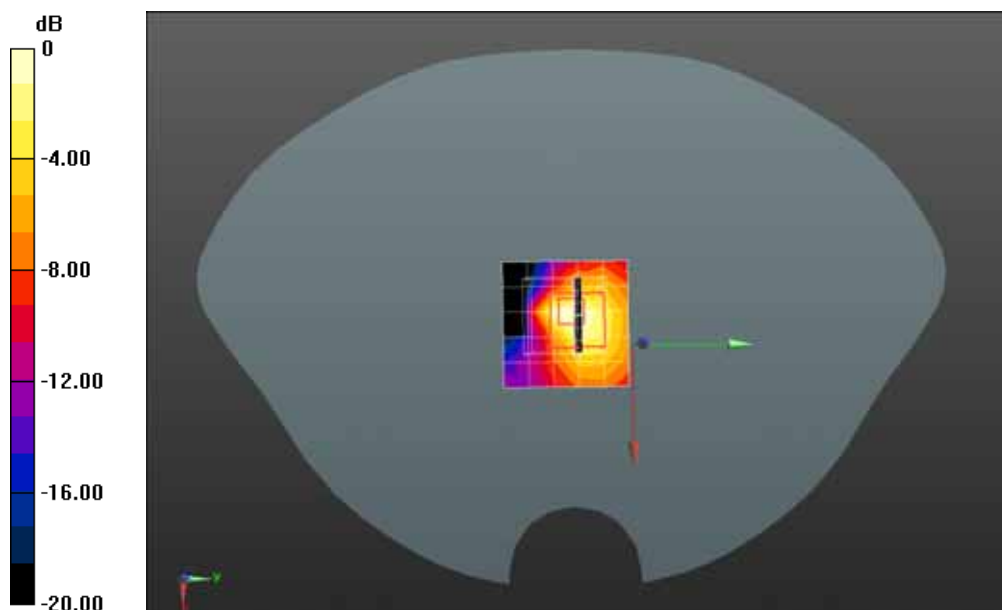
Maximum value of SAR (measured) = 0.16 W/kg

Configuration/802.11ac80 5290MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 11.28 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.16 W/kg



0 dB = 0.16 W/kg = -10.81 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5700MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5700 MHz; Medium parameters used: $f = 5700$ MHz; $\sigma = 5.93$ S/m; $\epsilon_r = 48.22$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

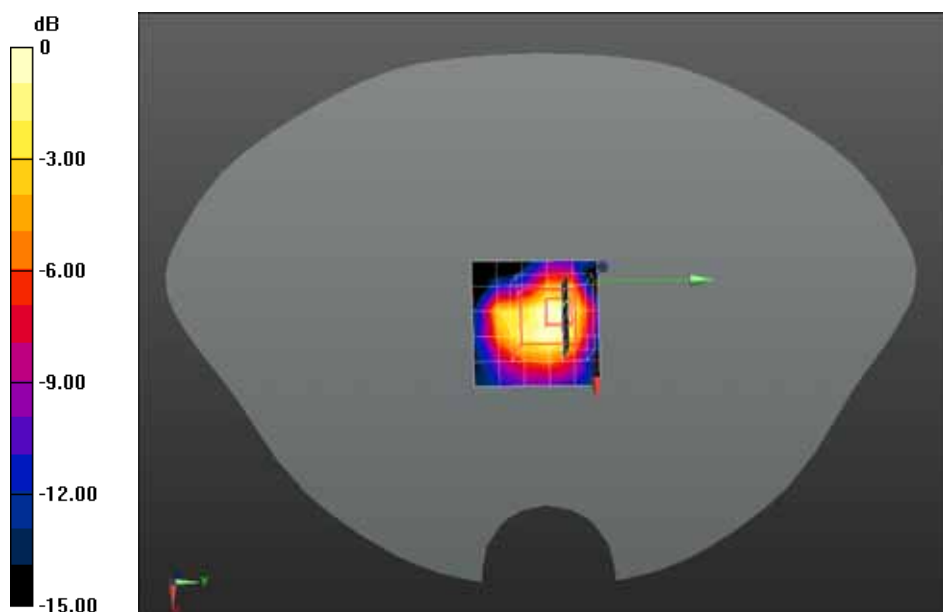
Configuration/802.11a 5700MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.778 W/kg

Configuration/802.11a 5700MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 10.69 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.89 W/kg

SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.169 W/kg Maximum value of SAR (measured) = 0.664 W/kg



0 dB = 0.664 W/kg = -1.78 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5700MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5700 MHz; Medium parameters used: $f = 5700$ MHz; $\sigma = 5.93$ S/m; $\epsilon_r = 48.22$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM2; Type: SAM; Serial: TP1562
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5700MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

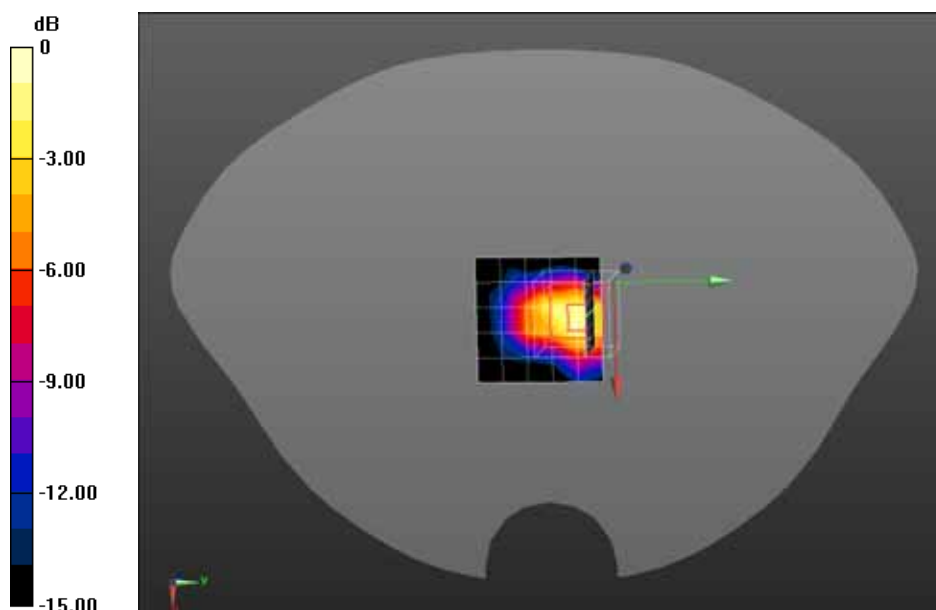
Maximum value of SAR (measured) = 0.451 W/kg

Configuration/802.11a 5700MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.600 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.153 W/kg Maximum value of SAR (measured) = 0.553 W/kg



0 dB = 0.553 W/kg = -2.57 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5700MHz Body-Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5700 MHz; Medium parameters used: $f = 5700$ MHz; $\sigma = 5.93$ S/m; $\epsilon_r = 48.22$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5700MHz Body-Vertical Back/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

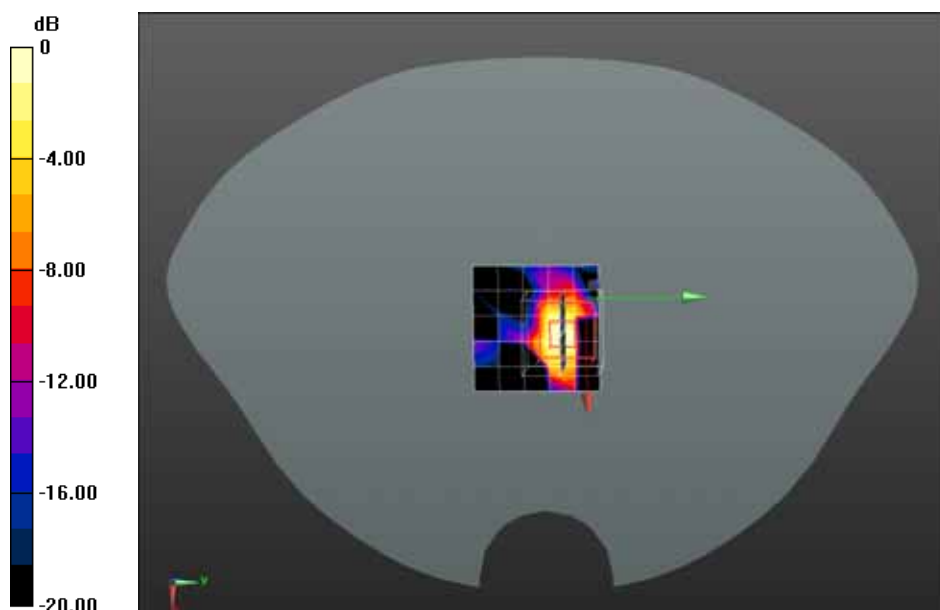
Maximum value of SAR (measured) = 0.221 W/kg

Configuration/802.11a 5700MHz Body-Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 5.735 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.058 W/kg Maximum value of SAR (measured) = 0.231 W/kg



0 dB = 0.231 W/kg = -6.36 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5700MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5700 MHz; Medium parameters used: $f = 5700$ MHz; $\sigma = 5.93$ S/m; $\epsilon_r = 48.22$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5700MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

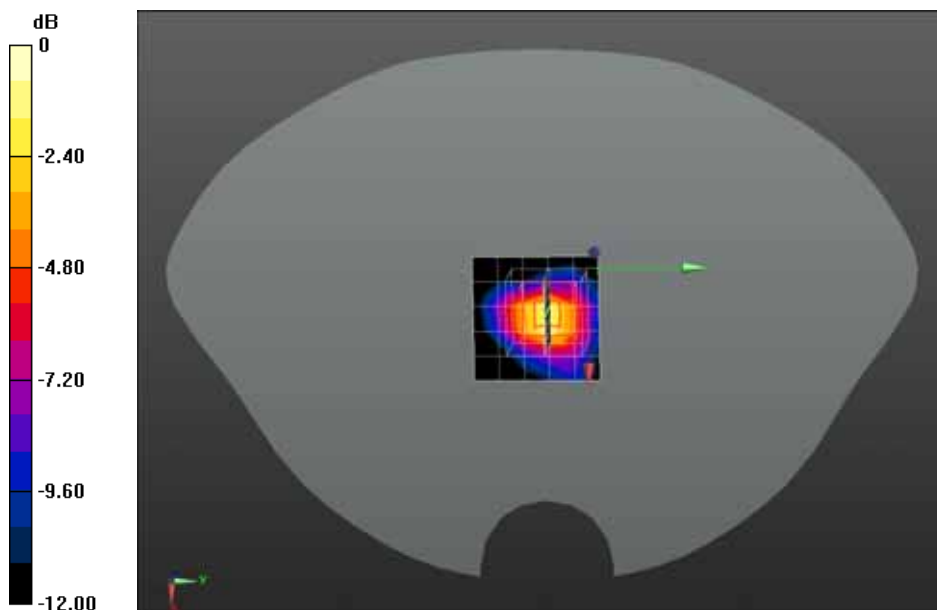
Maximum value of SAR (measured) = 0.632 W/kg

Configuration/802.11a 5700MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 11.41 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 4.51 W/kg

SAR(1 g) = 0.822 W/kg; SAR(10 g) = 0.246 W/kg Maximum value of SAR (measured) = 0.809 W/kg



0 dB = 0.809 W/kg = -0.92 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5700MHz Body-Vertical Front*

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5700 MHz; Medium parameters used: $f = 5700$ MHz; $\sigma = 5.93$ S/m; $\epsilon_r = 48.22$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5700MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.787 W/kg

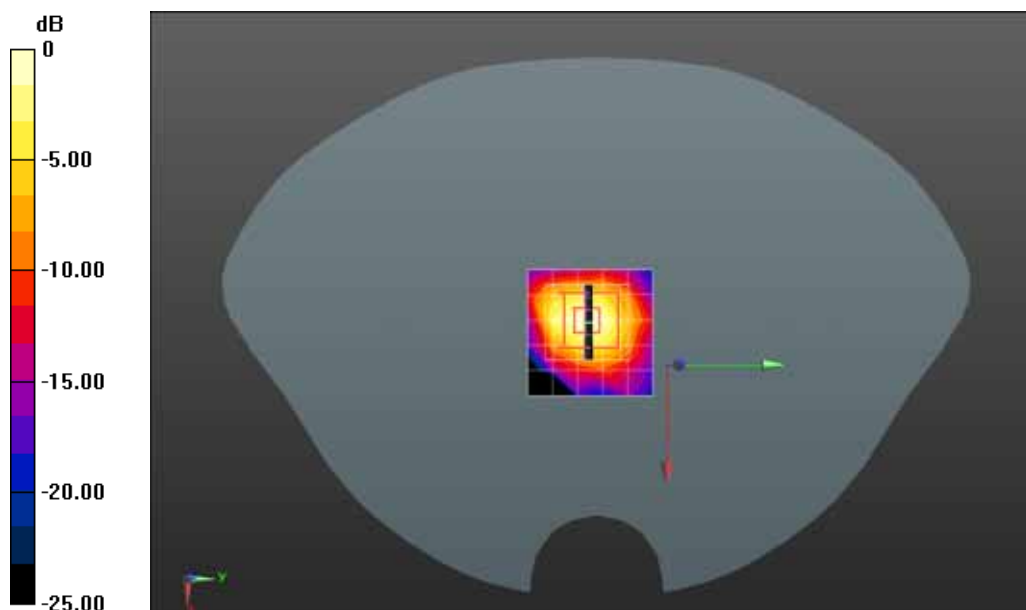
Configuration/802.11a 5700MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 12.28 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.76 W/kg

SAR(1 g) = 0.806 W/kg; SAR(10 g) = 0.266 W/kg

Maximum value of SAR (measured) = 0.791 W/kg



0 dB = 0.791 W/kg = -1.26 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5700MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5700 MHz; Medium parameters used: $f = 5700$ MHz; $\sigma = 5.93$ S/m; $\epsilon_r = 48.22$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

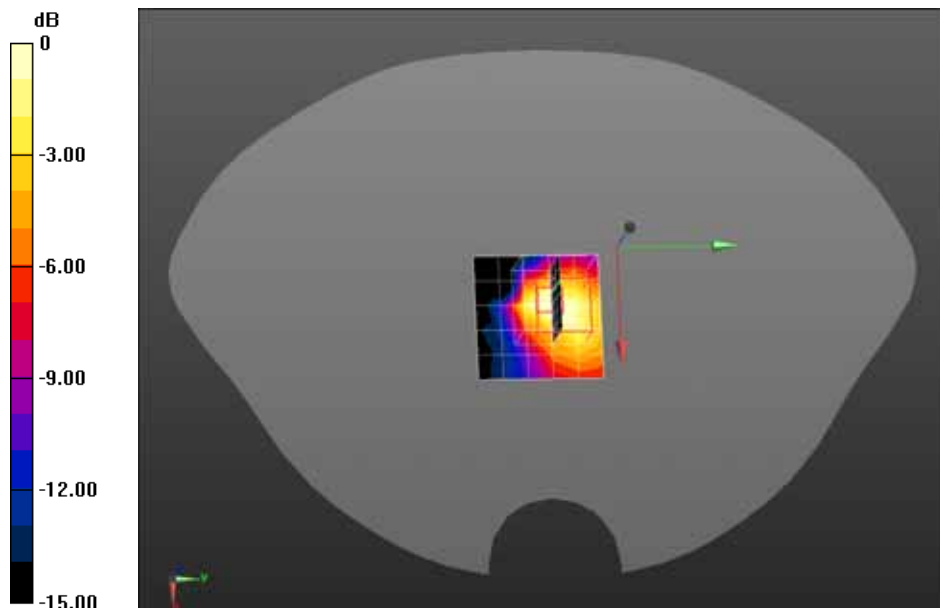
Configuration/802.11a 5700MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.564 W/kg

Configuration/802.11a 5700MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 10.94 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.074 W/kg Maximum value of SAR (measured) = 0.402 W/kg



0 dB = 0.402 W/kg = -3.67 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5500MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5500 MHz; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5500MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

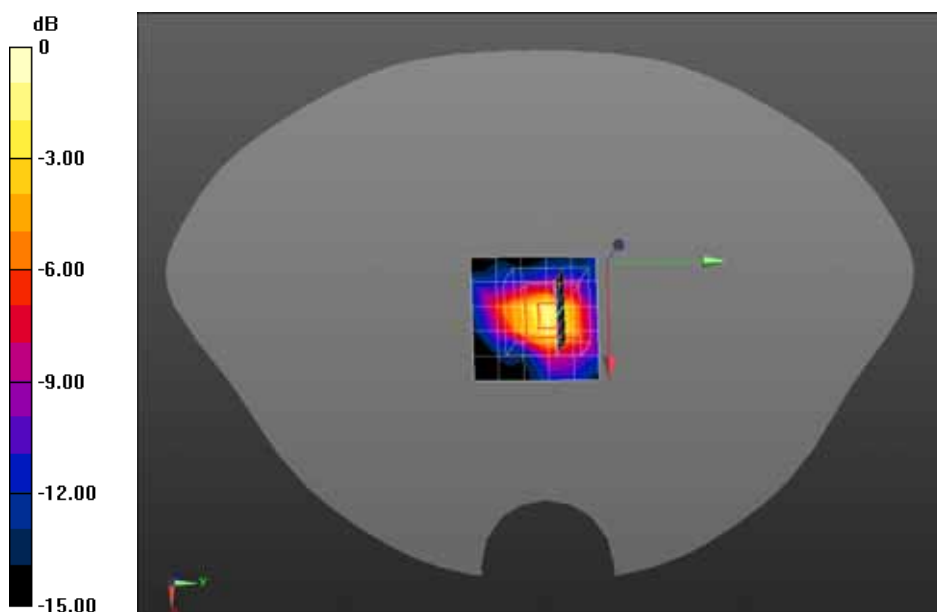
Maximum value of SAR (measured) = 0.547 W/kg

Configuration/802.11a 5500MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 11.04 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.215 W/kg Maximum value of SAR (measured) = 0.755 W/kg



0 dB = 0.755 W/kg = -1.22 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5500MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5500 MHz; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5500MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.54 W/kg

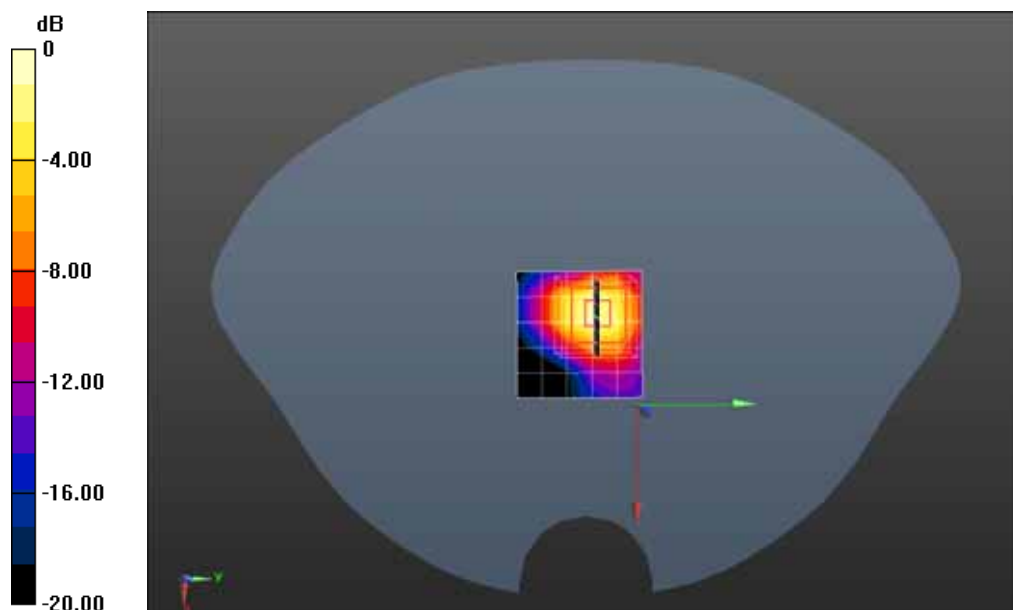
Configuration/802.11a 5500MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 5.40 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.94 W/kg

SAR(1 g) = 0.455 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.78 W/kg



0 dB = 0.78 W/kg = -2.50 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5580MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5580 MHz; Medium parameters used: $f = 5580$ MHz; $\sigma = 5.78$ S/m; $\epsilon_r = 48.52$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5580MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.963 W/kg

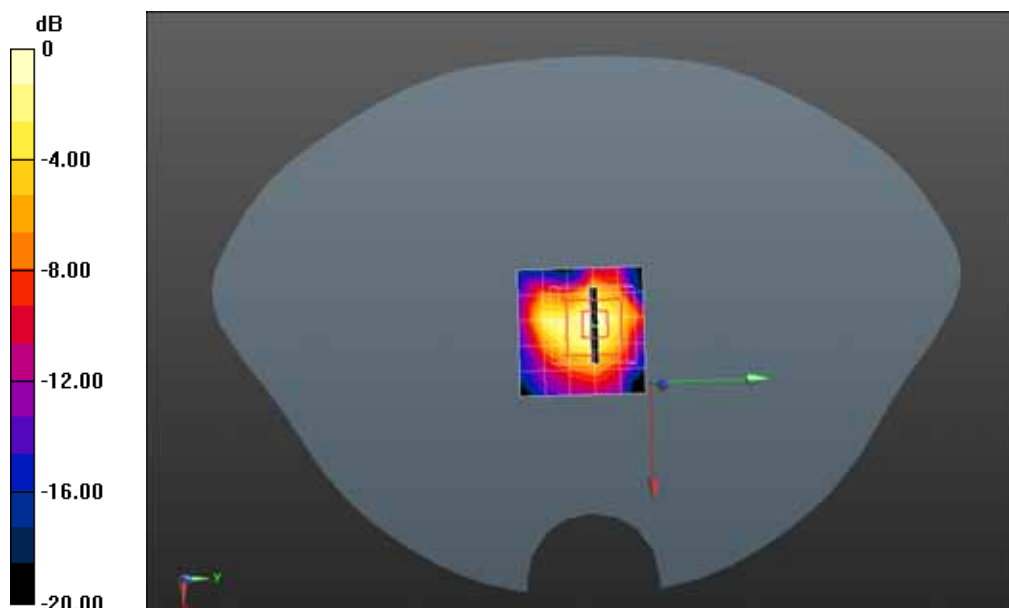
Configuration/802.11n20 5580MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 15.02 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.224 W/kg

Maximum value of SAR (measured) = 0.807 W/kg



0 dB = 0.807 W/kg = -0.93 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5580MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5580 MHz; Medium parameters used: $f = 5580$ MHz; $\sigma = 5.78$ S/m; $\epsilon_r = 48.52$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5580MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.687 W/kg

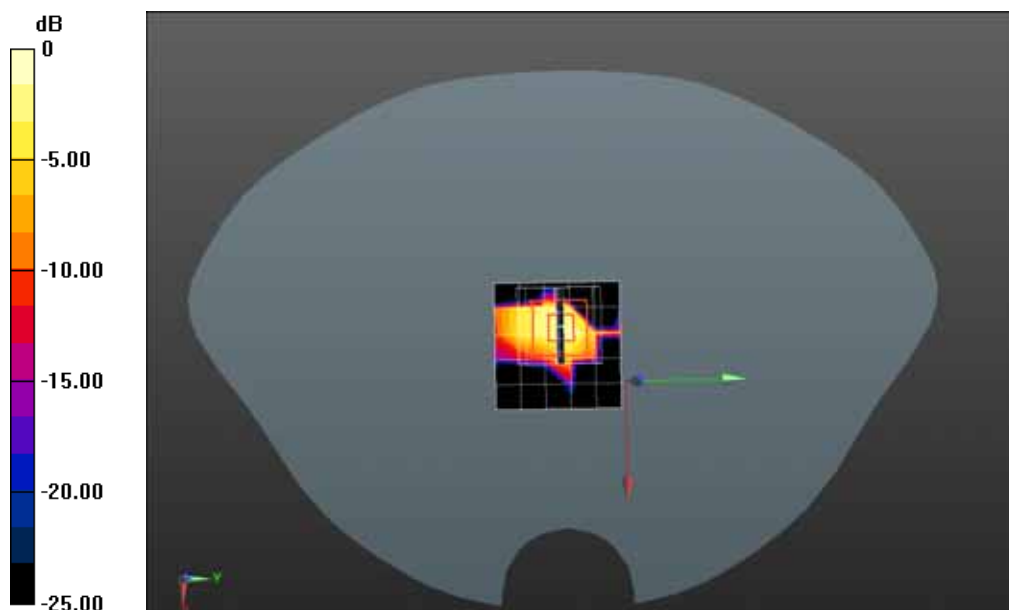
Configuration/802.11n20 5580MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 10.58 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.623 W/kg; SAR(10 g) = 0.248 W/kg

Maximum value of SAR (measured) = 0.900 W/kg



0 dB = 0.900 W/kg = -0.46 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5580MHz Body-Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5580 MHz; Medium parameters used: $f = 5580$ MHz; $\sigma = 5.78$ S/m; $\epsilon_r = 48.52$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5580MHz Body- Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.440 W/kg

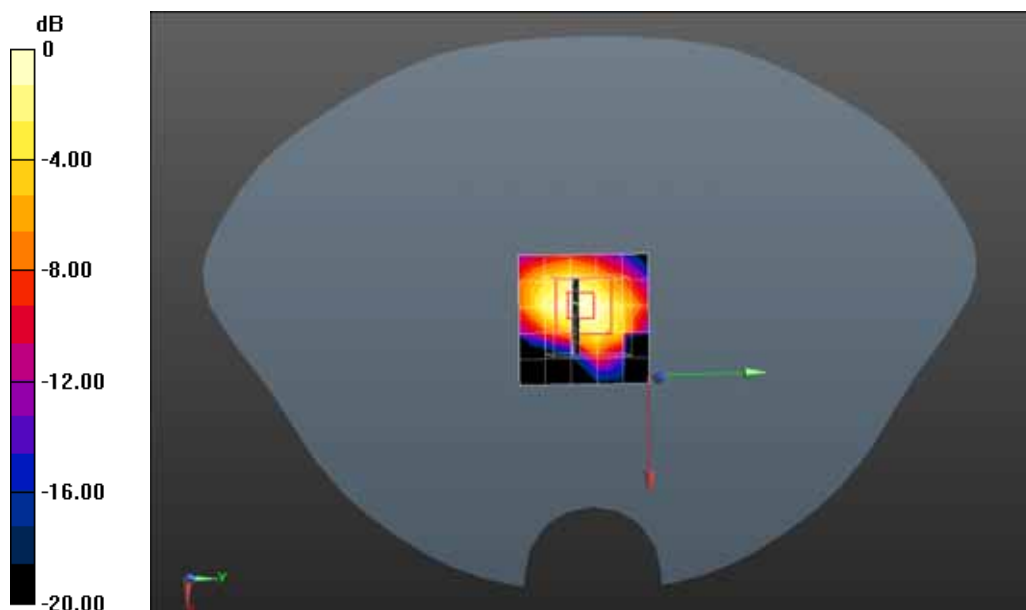
Configuration/802.11n20 5580MHz Body- Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 9.430 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.086 W/kg

Maximum value of SAR (measured) = 0.426 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5580MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5580 MHz; Medium parameters used: $f = 5580$ MHz; $\sigma = 5.78$ S/m; $\epsilon_r = 48.52$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5580MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

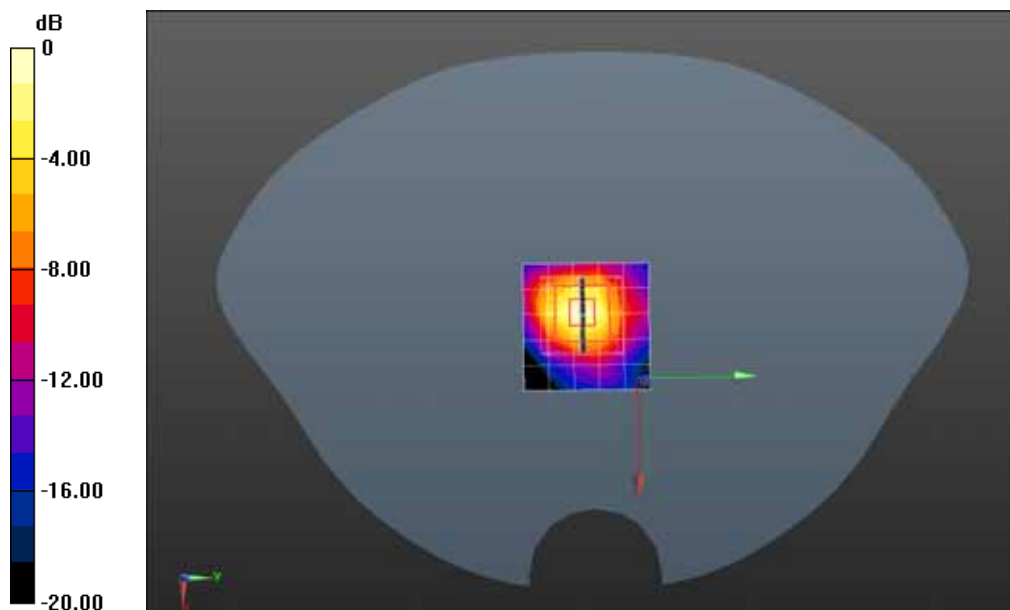
Maximum value of SAR (measured) = 1.35 W/kg

Configuration/802.11n20 5580MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 14.73 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 5.50 W/kg

SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.311 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5580MHz Body-Vertical Front*

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5580 MHz; Medium parameters used: $f = 5580$ MHz; $\sigma = 5.78$ S/m; $\epsilon_r = 48.52$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5580MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.23 W/kg

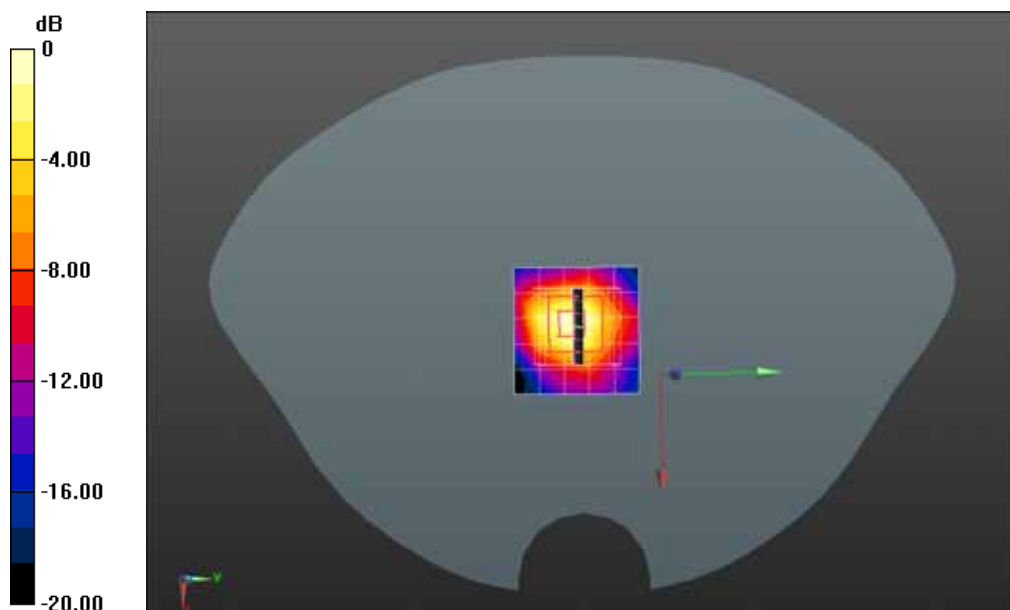
Configuration/802.11n20 5580MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 16.36 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.307 W/kg

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5580MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5580 MHz; Medium parameters used: $f = 5580$ MHz; $\sigma = 5.78$ S/m; $\epsilon_r = 48.52$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5580MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

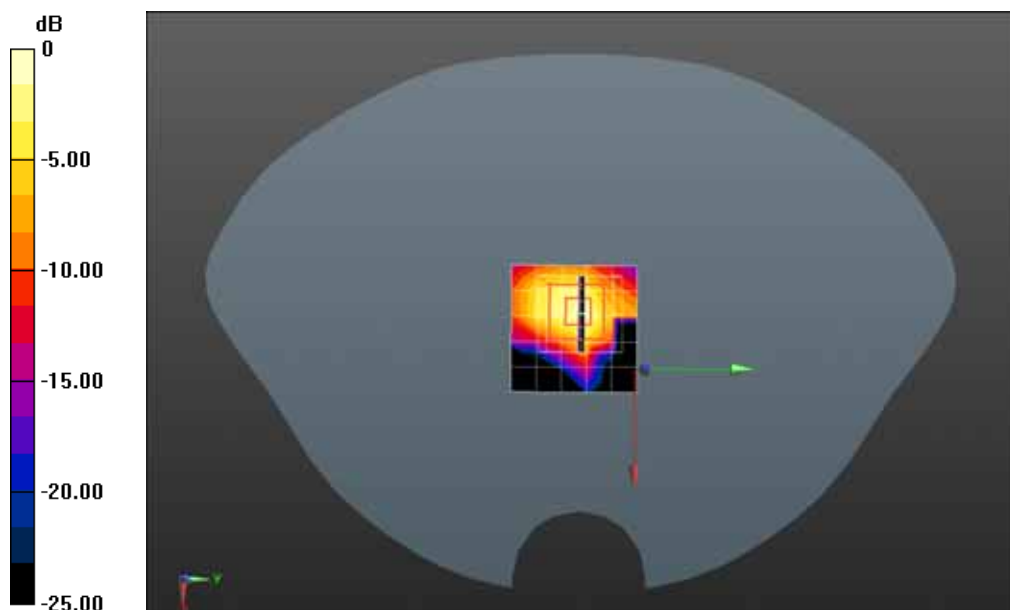
Maximum value of SAR (measured) = 0.096 W/kg

Configuration/802.11n20 5580MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 3.22 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.23 W/kg

SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.18 W/kg



0 dB = 0.18 W/kg = -10.33 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5500MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5500 MHz; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5500MHz Body- Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.37 W/kg

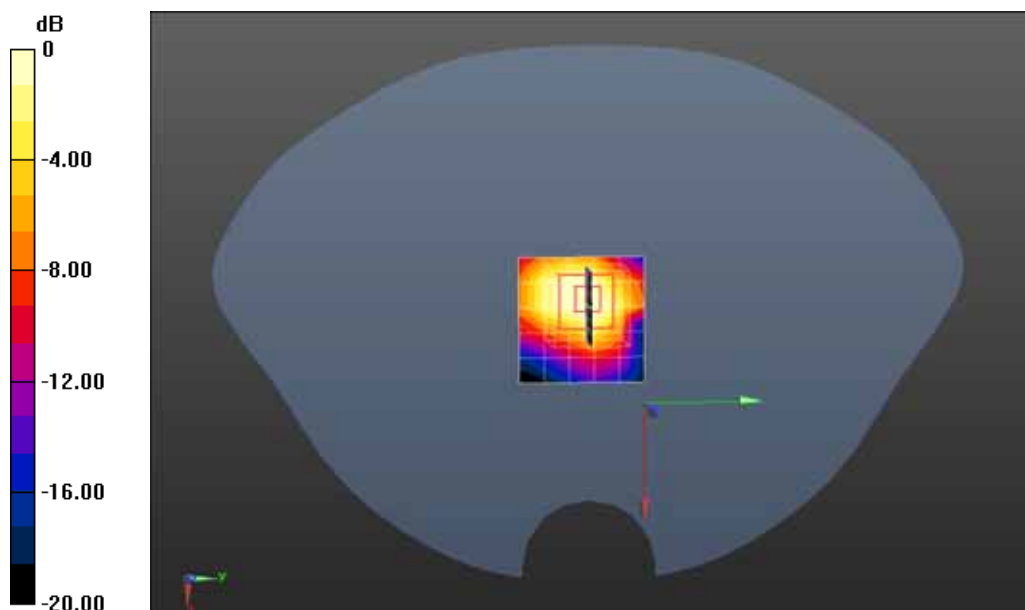
Configuration/802.11n20 5500MHz Body- Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 16.14 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 2.54 W/kg

SAR(1 g) = 0.922 W/kg; SAR(10 g) = 0.309 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg = 0.37 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5500MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5700 MHz; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5500MHz Body- Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.703 W/kg

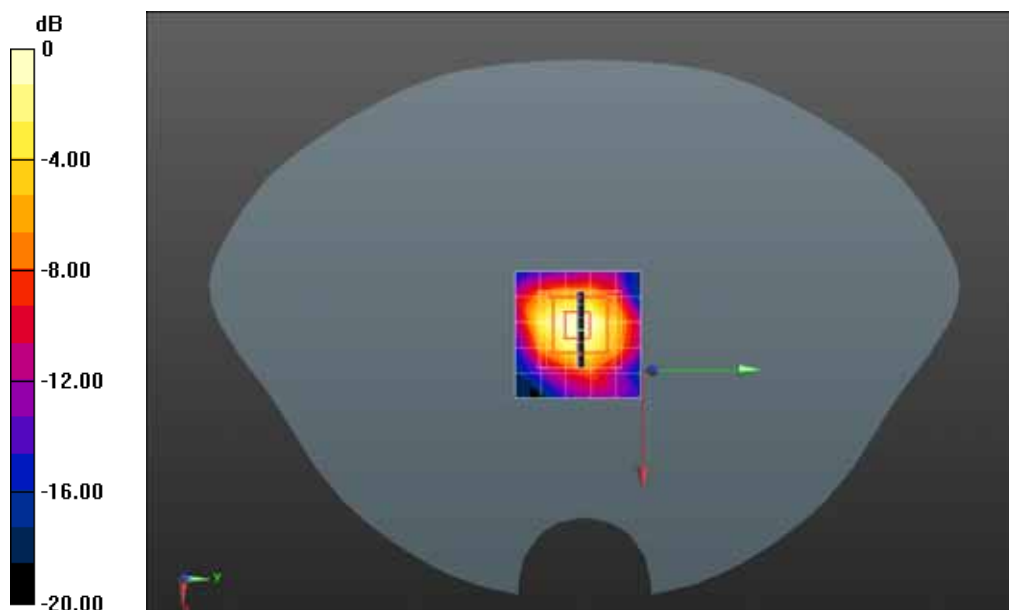
Configuration/802.11n20 5500MHz Body- Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 12.70 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.673 W/kg



0 dB = 0.673 W/kg = -1.72 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5550MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5550 MHz; Medium parameters used: $f = 5550$ MHz; $\sigma = 5.74$ S/m; $\epsilon_r = 48.6$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5550MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.89 W/kg

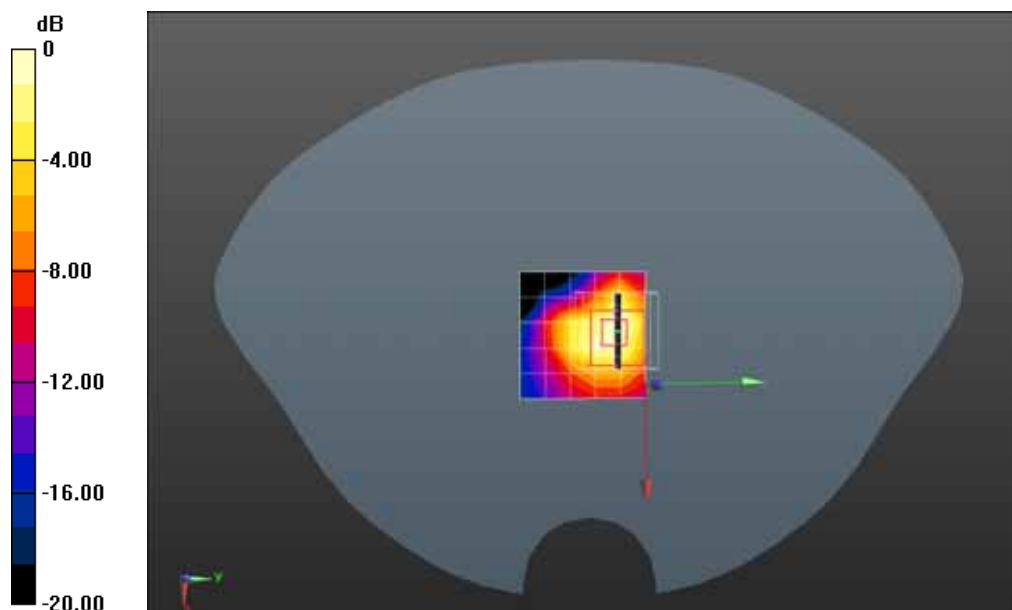
Configuration/802.11n40 5550MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 14.34 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 0.70 W/kg



0 dB = 0.70 W/kg = -1.14 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5550MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5550 MHz; Medium parameters used: $f = 5550$ MHz; $\sigma = 5.74$ S/m; $\epsilon_r = 48.6$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5550MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.82 W/kg

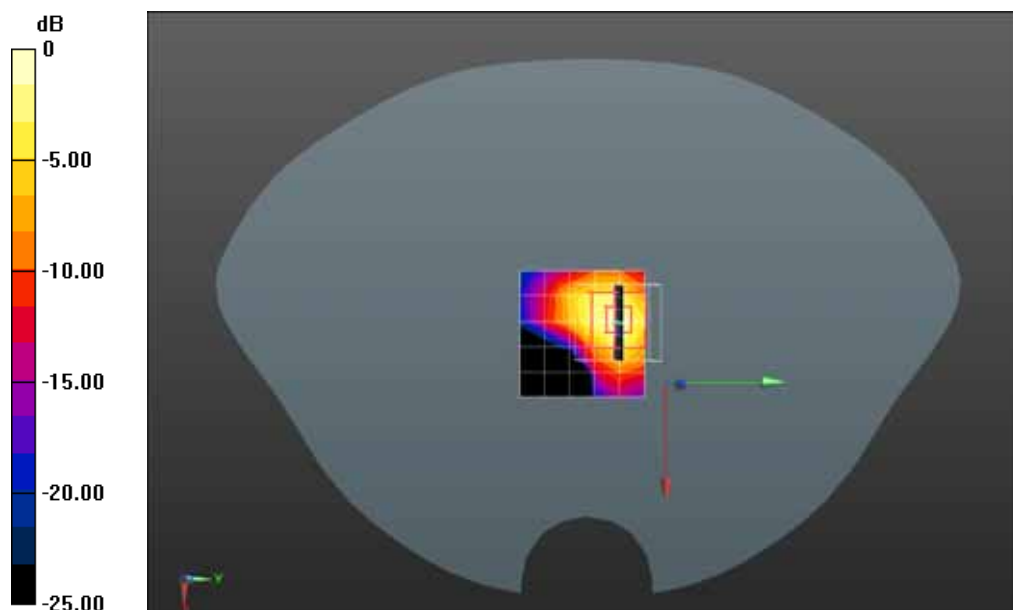
Configuration/802.11n40 5550MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 10.76 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.35 W/kg; SAR(10 g) = 0.11 W/kg

Maximum value of SAR (measured) = 0.61 W/kg



0 dB = 0.61 W/kg = -8.76 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5550MHz Body-Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5550 MHz; Medium parameters used: $f = 5550$ MHz; $\sigma = 5.74$ S/m; $\epsilon_r = 48.6$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5550MHz Body- Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.46 W/kg

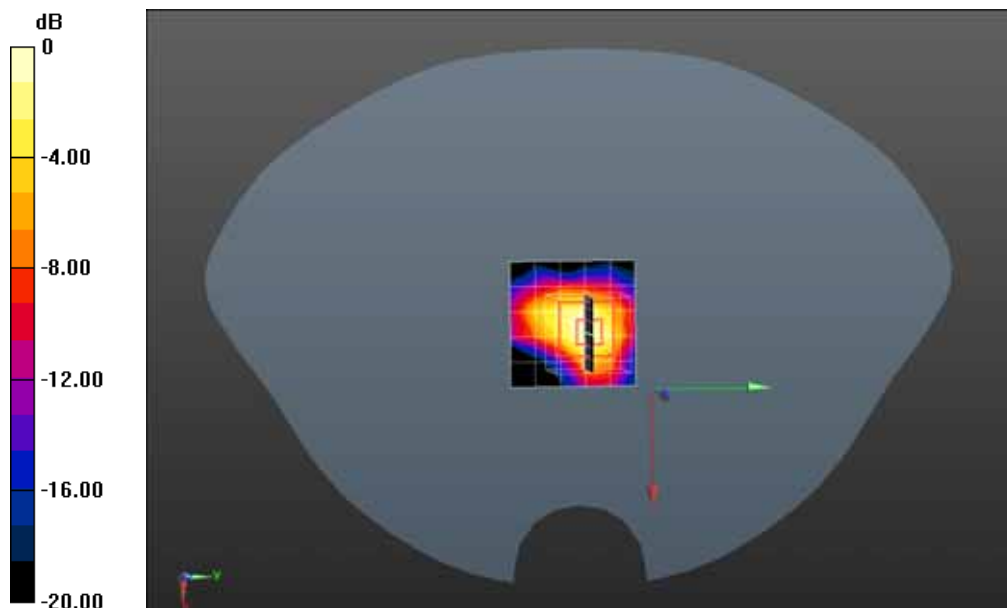
Configuration/802.11n40 5550MHz Body- Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 4.13 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.72 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.36 W/kg



0 dB = 0.36 W/kg = -10.25 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5550MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5550 MHz; Medium parameters used: $f = 5550$ MHz; $\sigma = 5.74$ S/m; $\epsilon_r = 48.6$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5550MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.87 W/kg

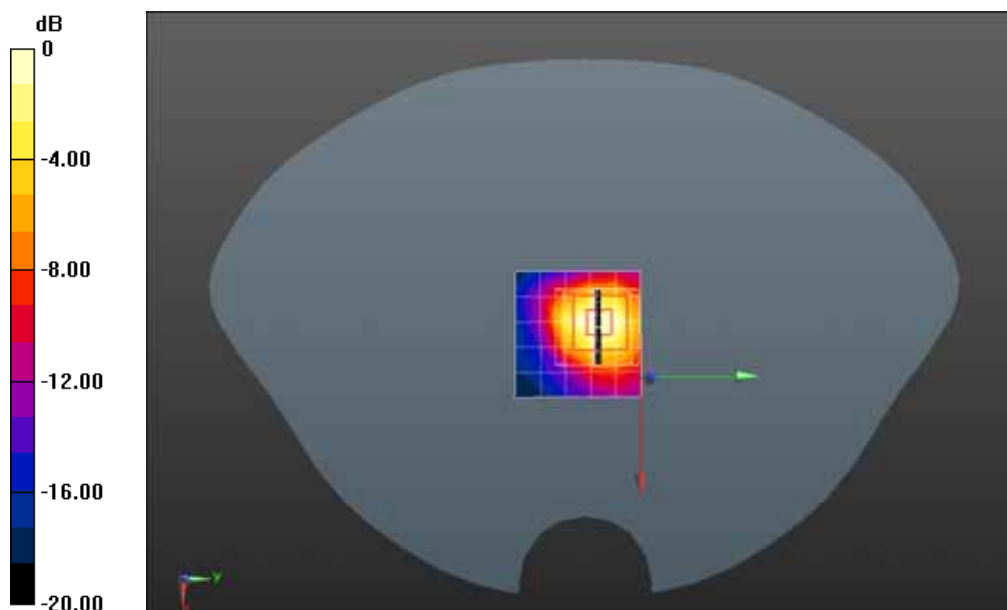
Configuration/802.11n40 5550MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.97 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.142 W/kg

Maximum value of SAR (measured) = 0.85 W/kg



0 dB = 0.85 W/kg = -4.61 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5550MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5550 MHz; Medium parameters used: $f = 5550$ MHz; $\sigma = 5.74$ S/m; $\epsilon_r = 48.6$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5550MHz Body- Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

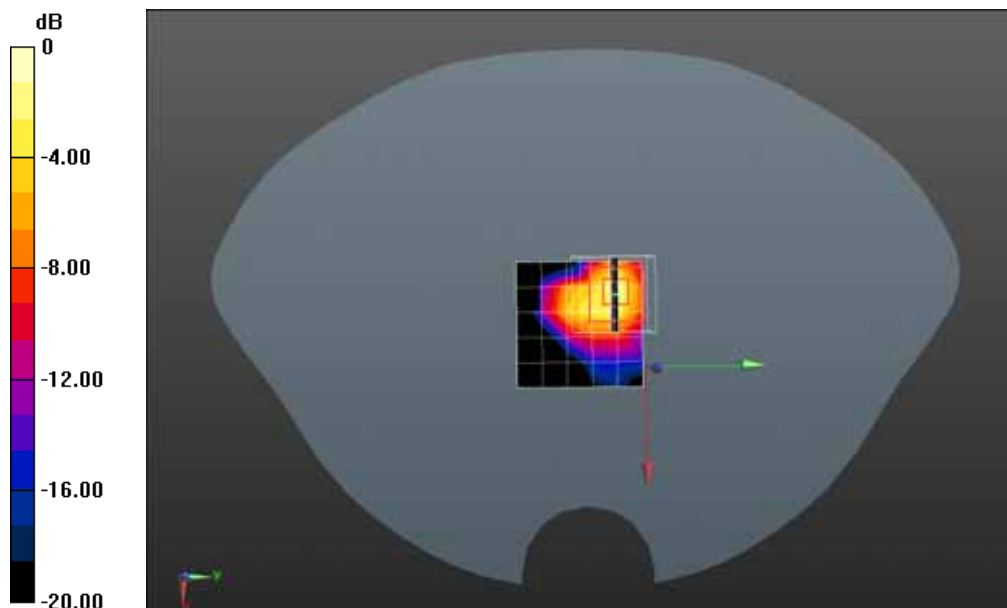
Maximum value of SAR (measured) = 0.051 W/kg

Configuration/802.11n40 5550MHz Body- Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.494 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.13 W/kg

SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.015 W/kg

Maximum value of SAR (measured) = 0.052 W/kg



0 dB = 0.052 W/kg = -10.70 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5500MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5500 MHz; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5500MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.95 W/kg

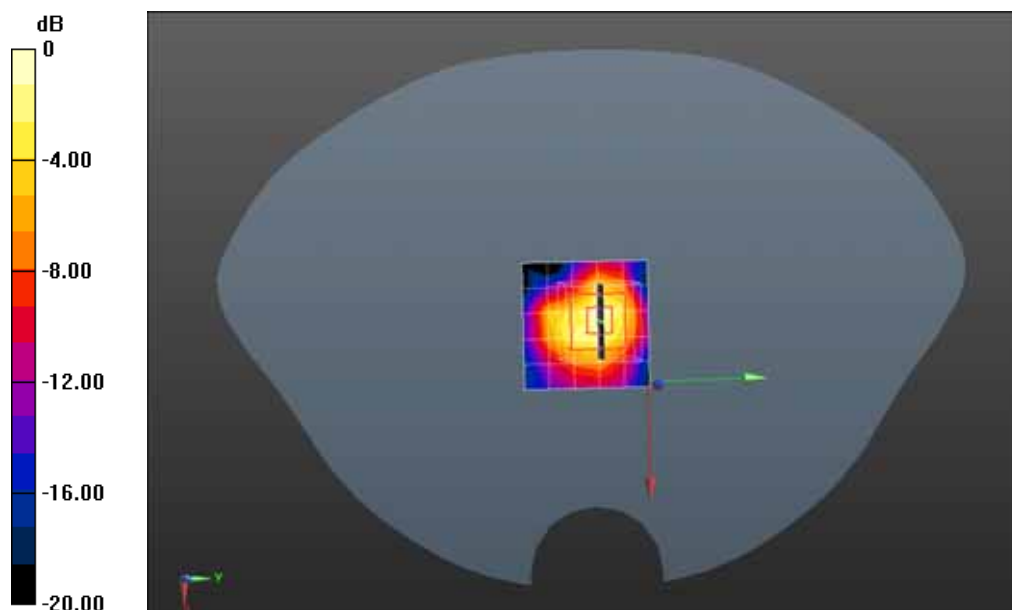
Configuration/802.11ac20 5500MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.16 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.599 W/kg; SAR(10 g) = 0.193 W/kg

Maximum value of SAR (measured) = 0.89 W/kg



0 dB = 0.89 W/kg = -3.43 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5500MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5500 MHz; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5500MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.69 W/kg

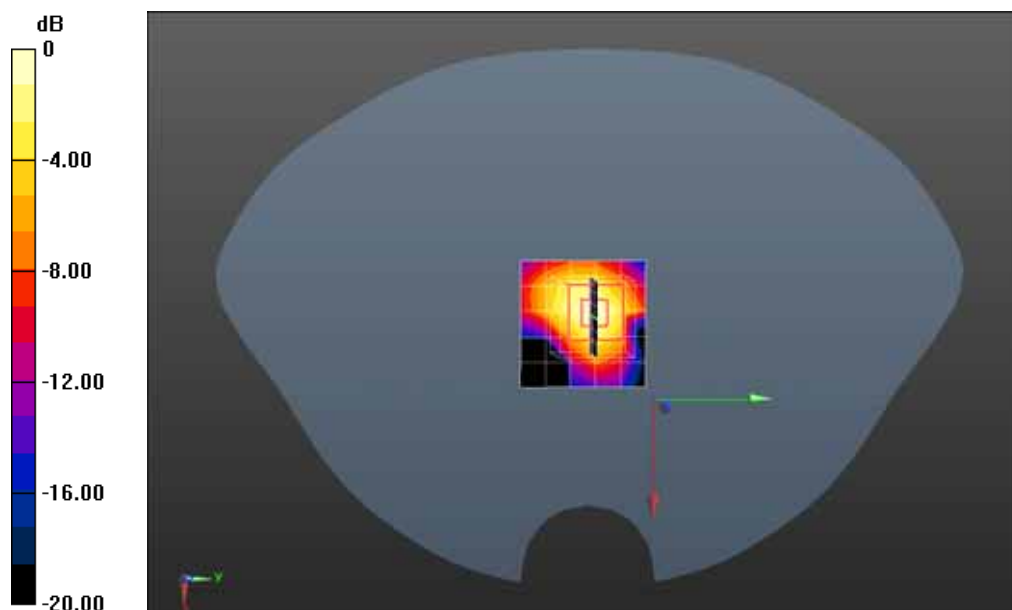
Configuration/802.11ac20 5500MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.85 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 0.71 W/kg



0 dB = 0.71 W/kg = -8.67 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5500MHz Body-Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5500 MHz; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5500MHz Body- Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.54 W/kg

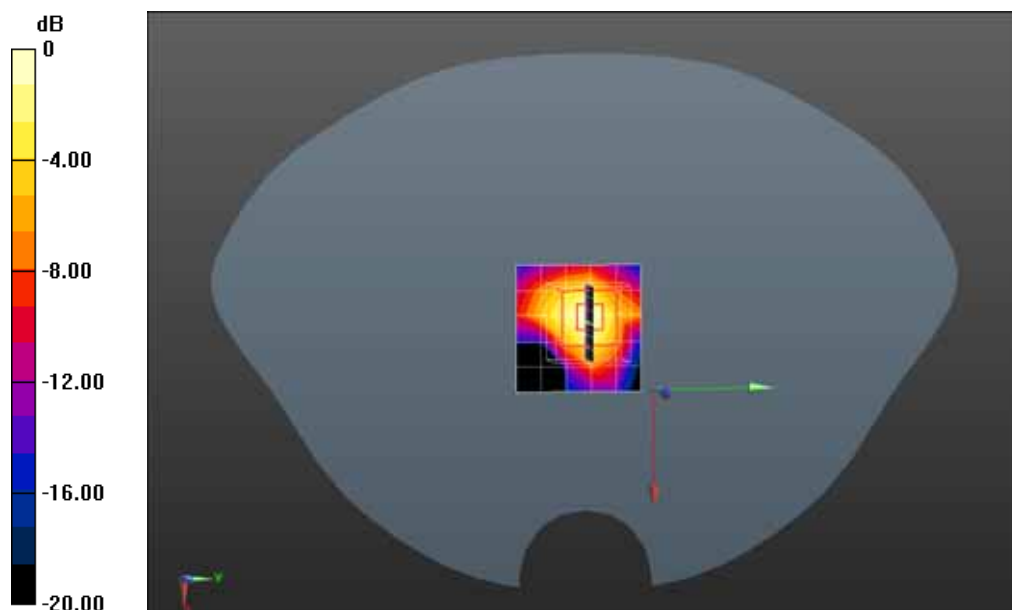
Configuration/802.11ac20 5500MHz Body- Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.67 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.61 W/kg

SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.075 W/kg

Maximum value of SAR (measured) = 0.38 W/kg



0 dB = 0.38 W/kg = -7.40 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5500MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5500 MHz; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5500MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.00 W/kg

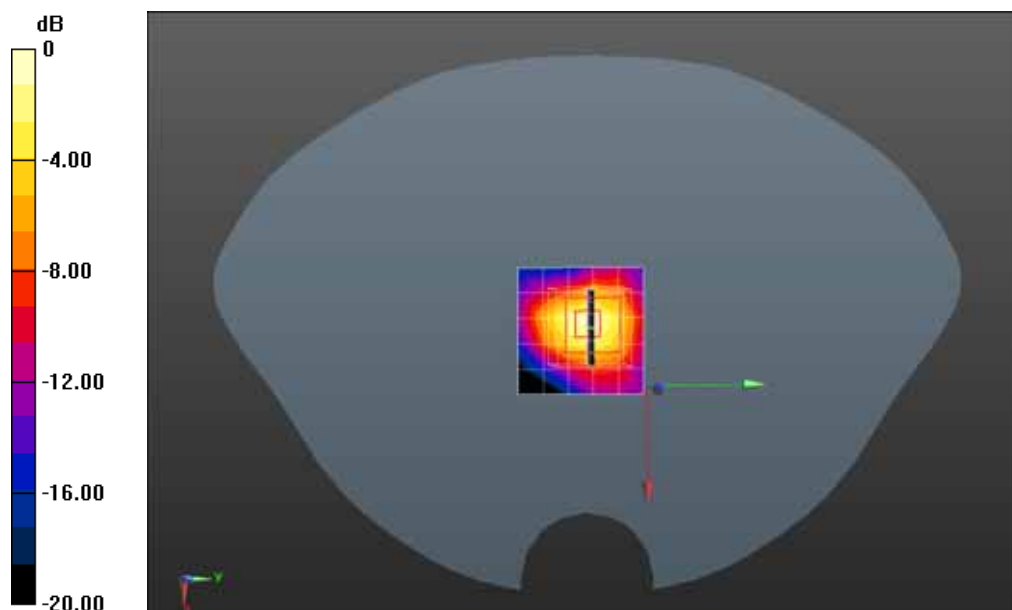
Configuration/802.11ac20 5500MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 7.80 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.231 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = -3.93 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5500MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5500 MHz; Medium parameters used: $f = 5500$ MHz; $\sigma = 5.69$ S/m; $\epsilon_r = 48.72$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5500MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

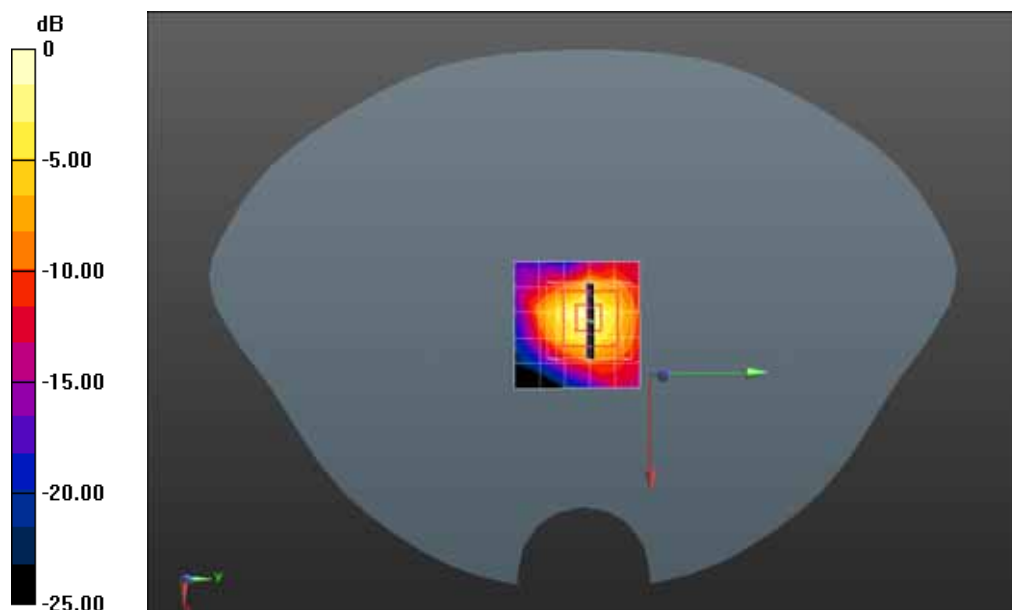
Maximum value of SAR (measured) = 0.45 W/kg

Configuration/802.11ac20 5500MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 1.50 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.31 W/kg

SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.16 W/kg



0 dB = 0.16 W/kg = -12.93 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5660MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5660 MHz; Medium parameters used: $f = 5660$ MHz; $\sigma = 5.88$ S/m; $\epsilon_r = 48.32$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5660MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.12 W/kg

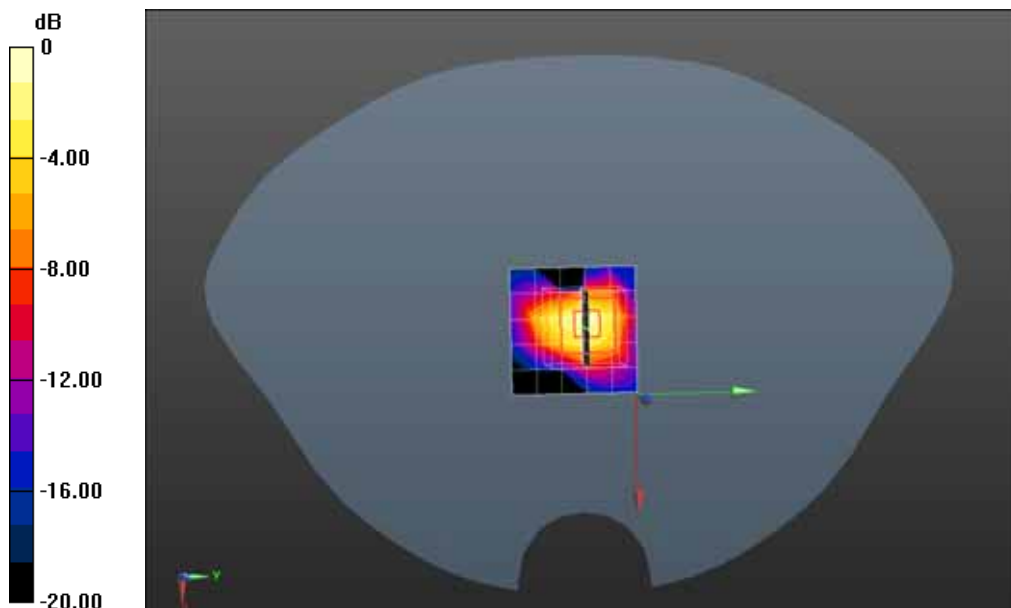
Configuration/802.11ac20 5660MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 14.95 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 0.62 W/kg; SAR(10 g) = 0.312 W/kg

Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5670MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5670 MHz; Medium parameters used: $f = 5670$ MHz; $\sigma = 5.89$ S/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5670MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.421 W/kg

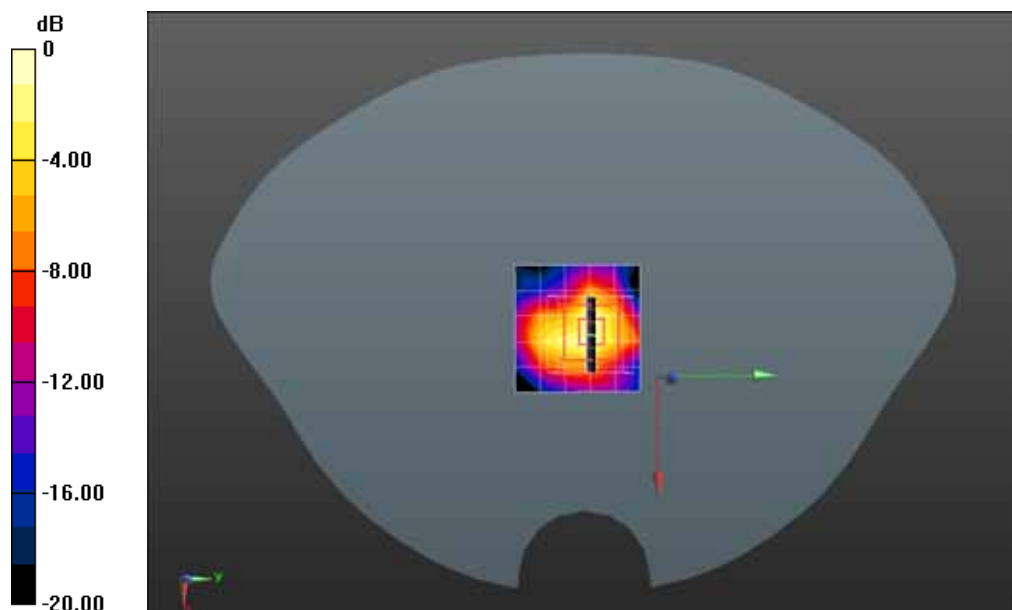
Configuration/802.11ac40 5670MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.84 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.457 W/kg



0 dB = 0.457 W/kg = -7.19 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5670MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5670 MHz; Medium parameters used: $f = 5670$ MHz; $\sigma = 5.89$ S/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5670MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

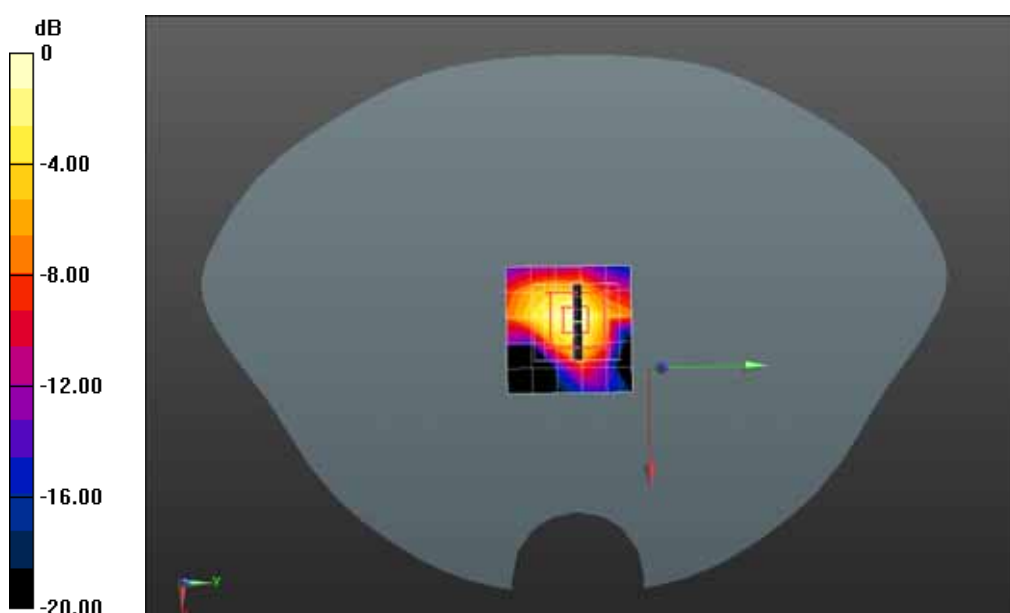
Maximum value of SAR (measured) = 0.47 W/kg

Configuration/802.11ac40 5670MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 5.53 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.126 W/kg



0 dB = 0.294 W/kg = 0.68 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5670MHz Body-Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5670 MHz; Medium parameters used: $f = 5670$ MHz; $\sigma = 5.89$ S/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5670MHz Body- Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.46 W/kg

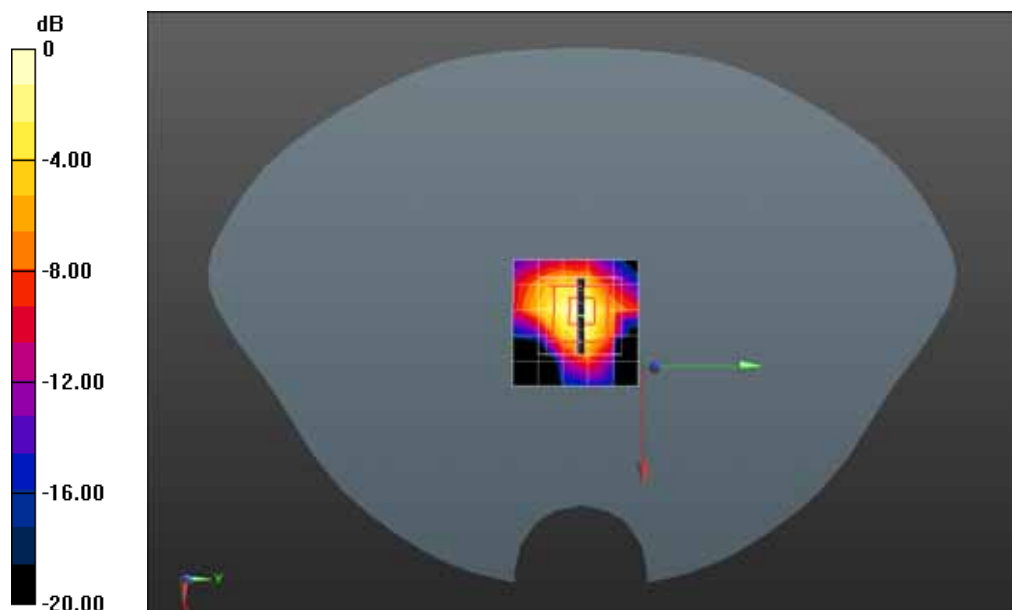
Configuration/802.11ac40 5670MHz Body- Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 15.65 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.062 W/kg

Maximum value of SAR (measured) = 0.31 W/kg



0 dB = 0.31 W/kg = -11.17 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5670MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5670 MHz; Medium parameters used: $f = 5670$ MHz; $\sigma = 5.89$ S/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5670MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.64 W/kg

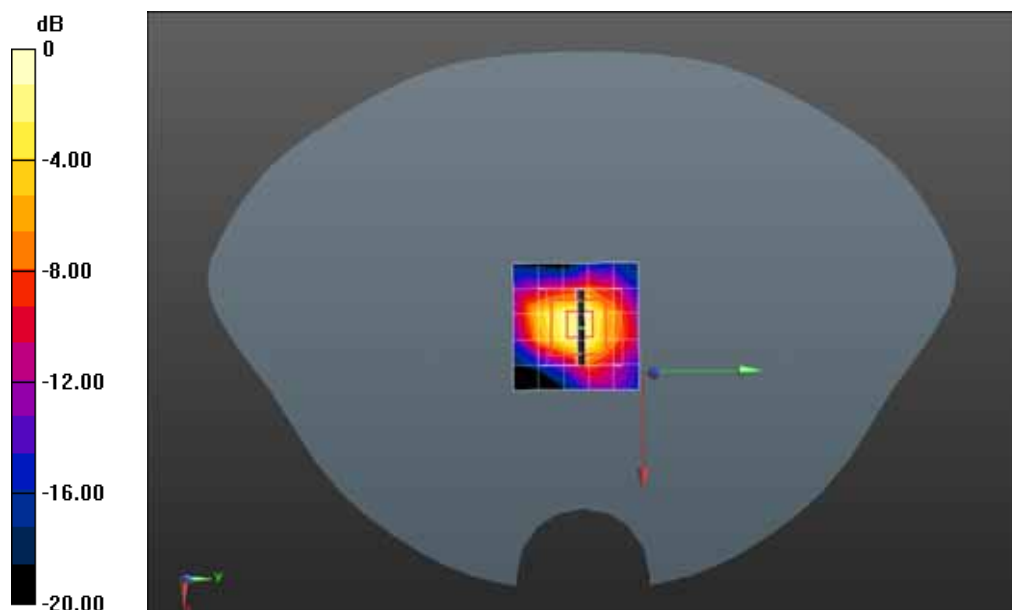
Configuration/802.11ac40 5670MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 16.00 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 4.83 W/kg

SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 0.48 W/kg



0 dB = 0.48 W/kg = -5.70 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5670MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5670 MHz; Medium parameters used: $f = 5670$ MHz; $\sigma = 5.89$ S/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5670MHz Body- Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

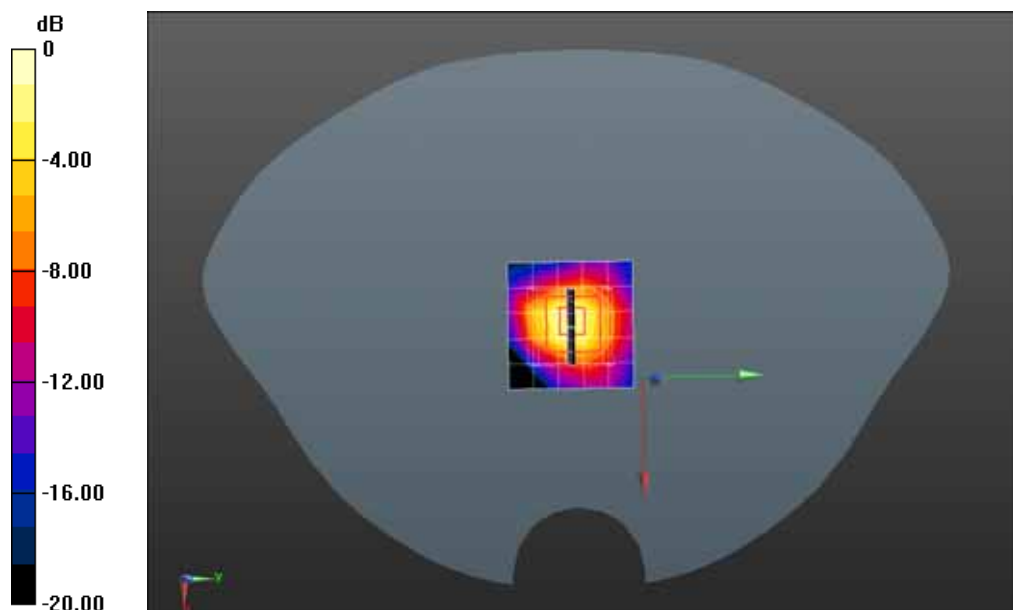
Maximum value of SAR (measured) = 0.29 W/kg

Configuration/802.11ac40 5670MHz Body- Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 1.20 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.023 W/kg

Maximum value of SAR (measured) = 0.37 W/kg



0 dB = 0.37 W/kg = -12.30 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5530MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5530 MHz; Medium parameters used: $f = 5530$ MHz; $\sigma = 5.72$ S/m; $\epsilon_r = 48.65$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5530MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.866 W/kg

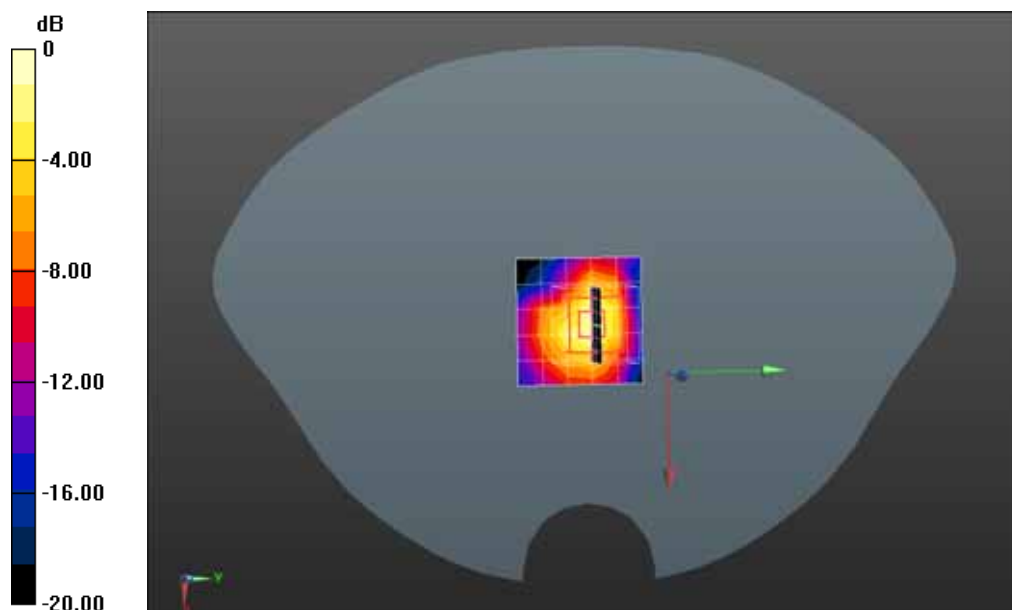
Configuration/802.11ac80 5530MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 12.91 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.998 W/kg



0 dB = 0.998 W/kg = -0.01 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5530MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5530 MHz; Medium parameters used: $f = 5530$ MHz; $\sigma = 5.72$ S/m; $\epsilon_r = 48.65$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5530MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.81 W/kg

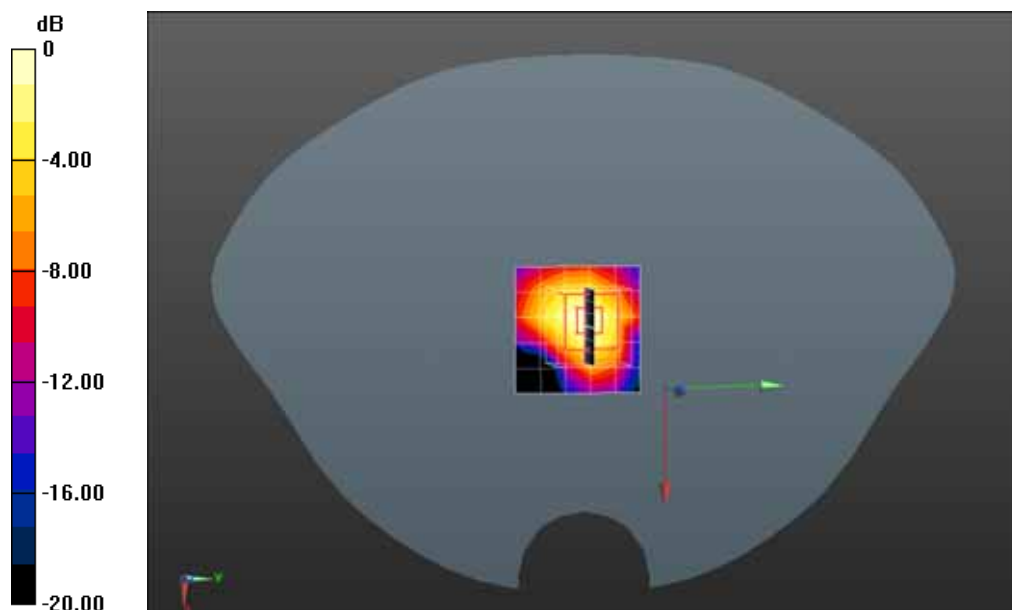
Configuration/802.11ac80 5530MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 5.91 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.128 W/kg

Maximum value of SAR (measured) = 0.78 W/kg



0 dB = 0.78 W/kg = -5.79 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5530MHz Body-Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5530 MHz; Medium parameters used: $f = 5530$ MHz; $\sigma = 5.72$ S/m; $\epsilon_r = 48.65$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5530MHz Body- Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.66 W/kg

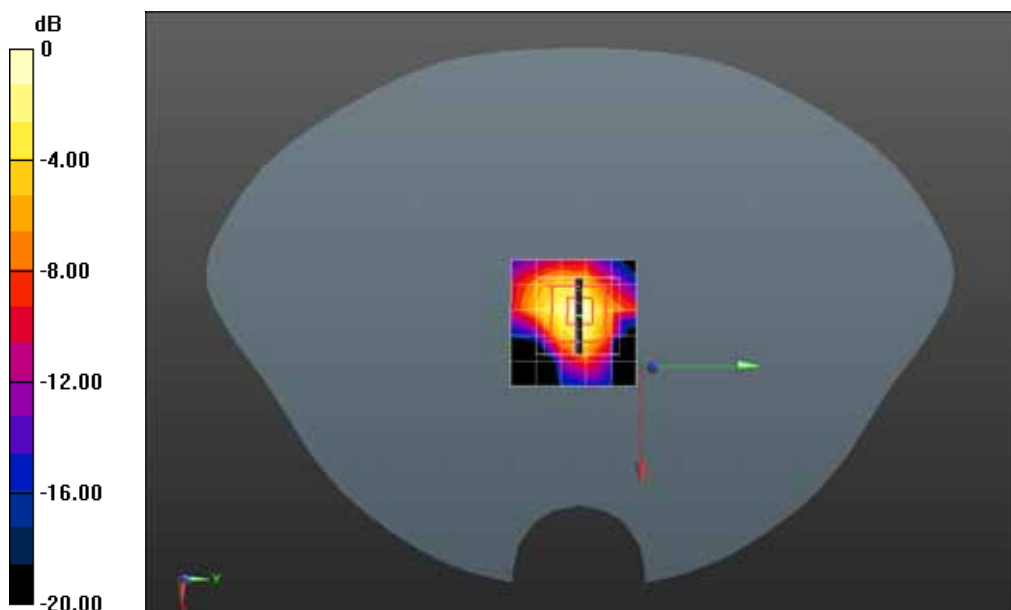
Configuration/802.11ac80 5530MHz Body- Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 5.65 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 5.12 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.062 W/kg

Maximum value of SAR (measured) = 0.31 W/kg



0 dB = 0.31 W/kg = -11.17 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5530MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5530 MHz; Medium parameters used: $f = 5530$ MHz; $\sigma = 5.72$ S/m; $\epsilon_r = 48.65$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5530MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.14 W/kg

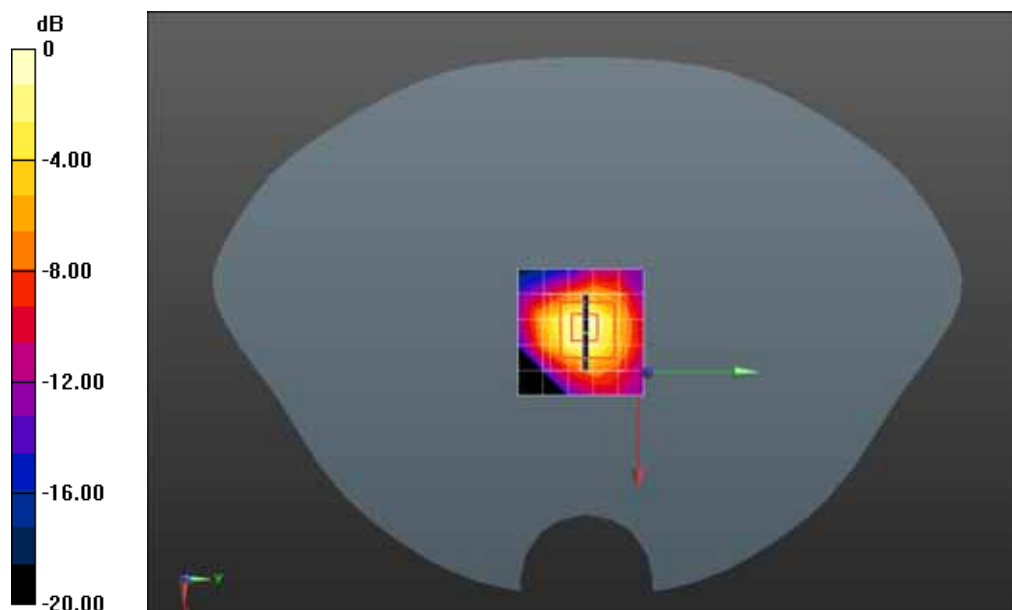
Configuration/802.11ac80 5530MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 15.63 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.393 W/kg

Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.39 W/kg = 1.43 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5530MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5530 MHz; Medium parameters used: $f = 5530$ MHz; $\sigma = 5.72$ S/m; $\epsilon_r = 48.65$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.67, 3.67, 3.67); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

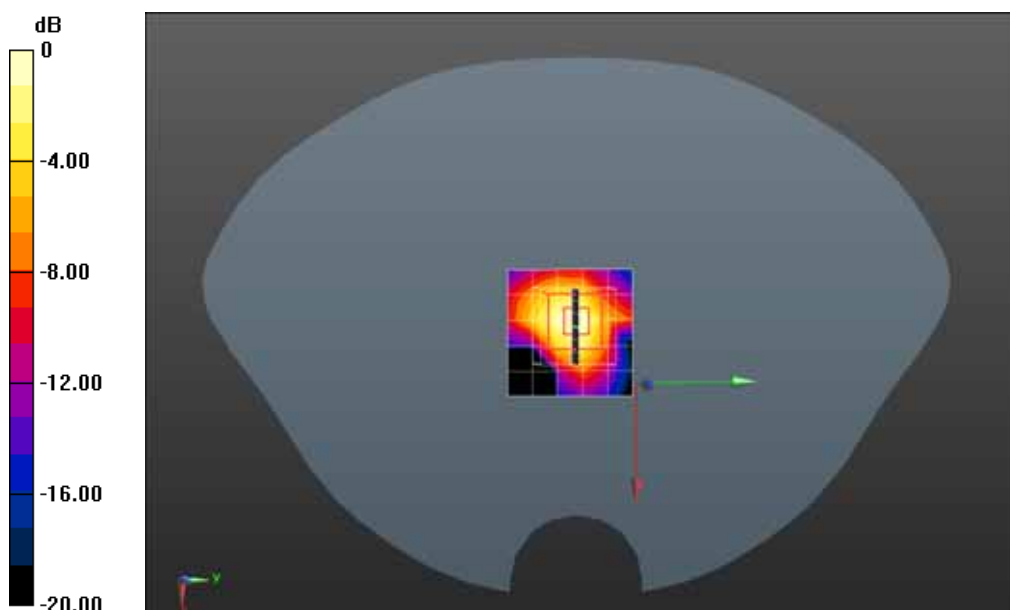
Configuration/802.11ac80 5530MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.26 W/kg

Configuration/802.11ac80 5530MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 1.35 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.12 W/kg

SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.013 W/kg



0 dB = 1.26 W/kg = -12.00 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5785MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5785MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.593 W/kg

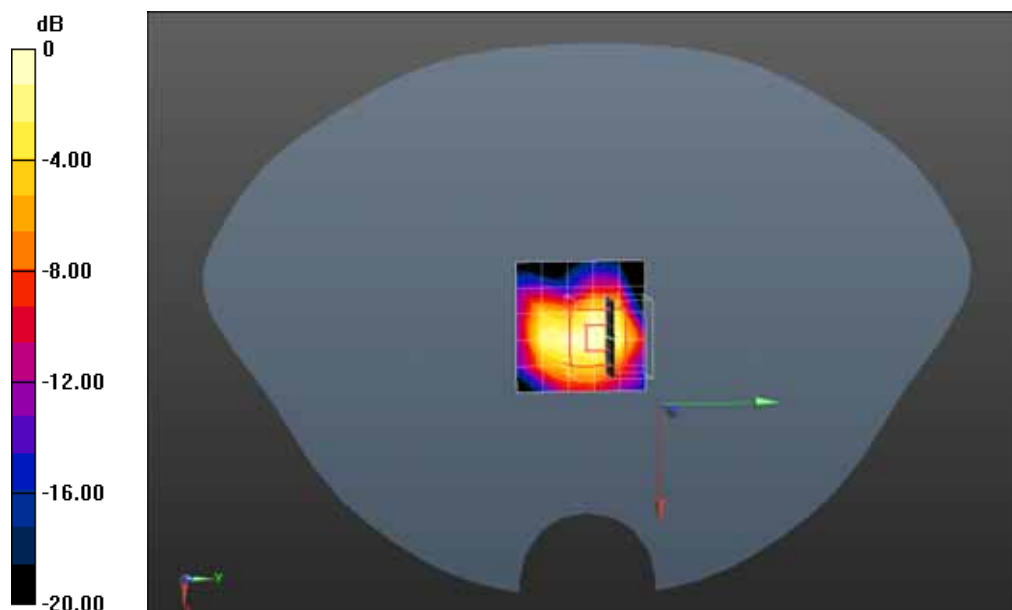
Configuration/802.11a 5785MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 6.935 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.461 W/kg



0 dB = 0.461 W/kg = -3.36 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5785MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5785MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.589 W/kg

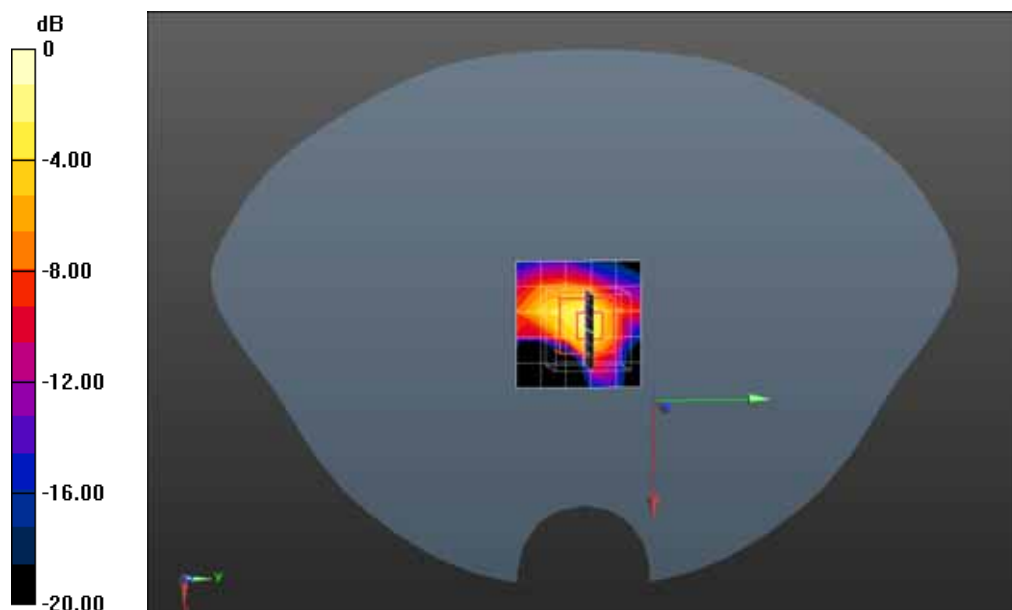
Configuration/802.11a 5785MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 11.92 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 0.693 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.865 W/kg



0 dB = 0.865 W/kg = -0.63 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5785MHz Body-Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.09 \text{ S/m}$; $\epsilon_r = 47.94$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5785MHz Body-Vertical Back/Area Scan (6x6x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.777 W/kg

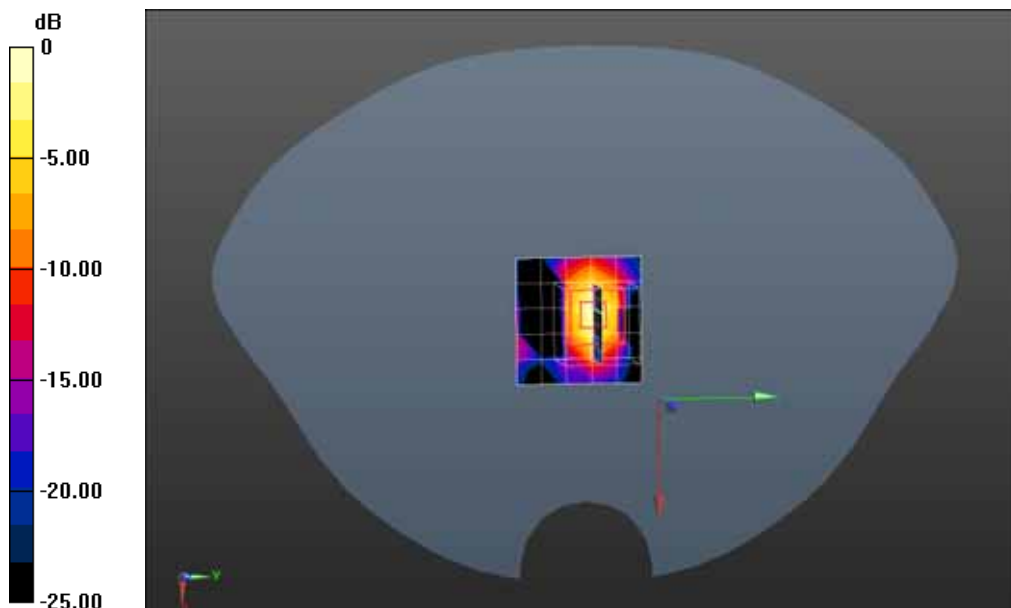
Configuration/802.11a 5785MHz Body-Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$; Reference Value = 11.90 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.184 W/kg

Maximum value of SAR (measured) = 0.771 W/kg



0 dB = 0.771 W/kg = -1.13 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5785MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5785MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.899 W/kg

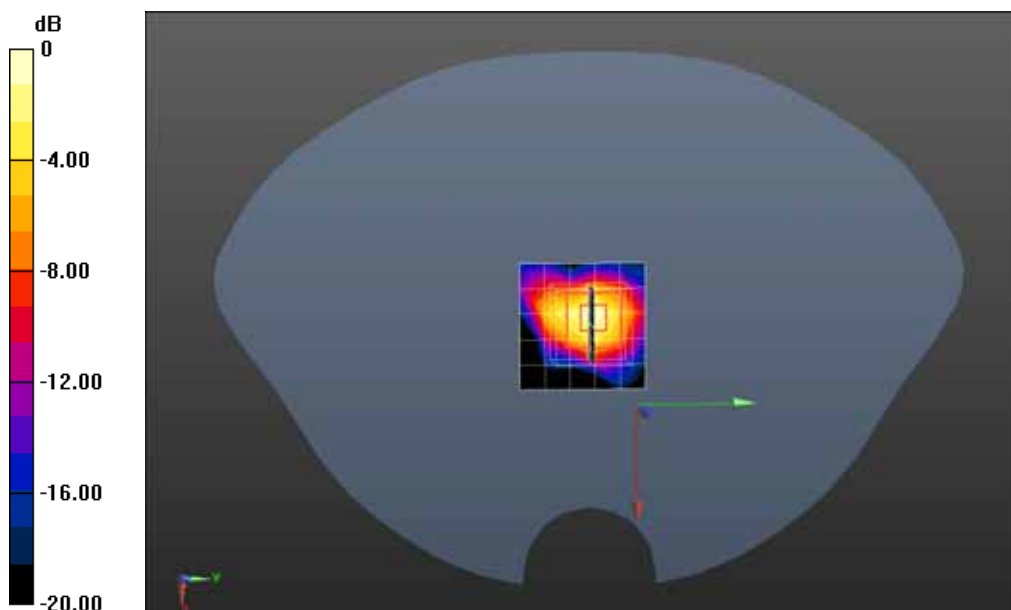
Configuration/802.11a 5785MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 12.58 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.56 W/kg

SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.231 W/kg

Maximum value of SAR (measured) = 0.853 W/kg



0 dB = 0.853 W/kg = -0.69 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5785MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5785MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

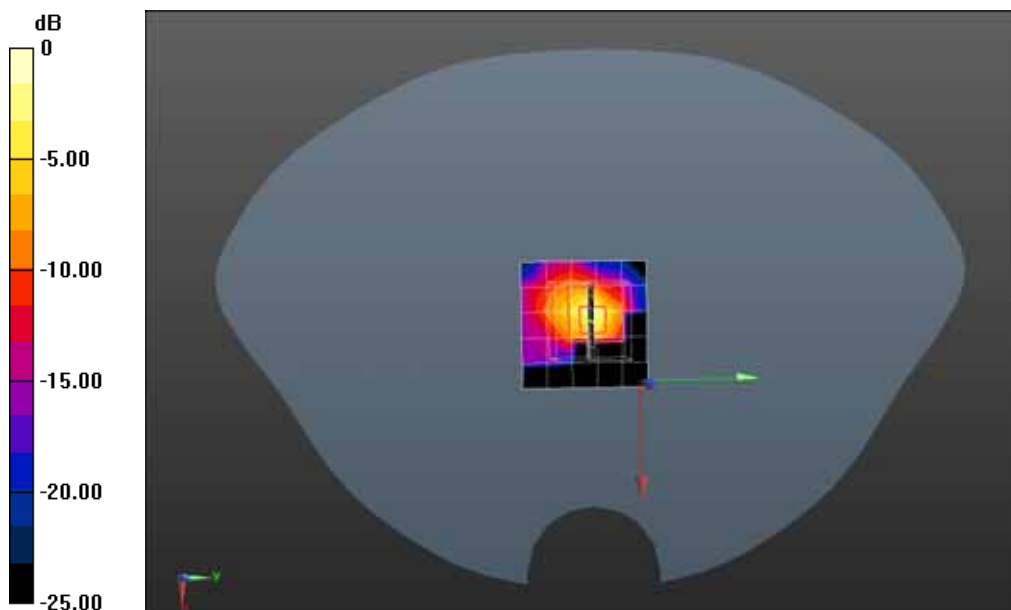
Maximum value of SAR (measured) = 0.352 W/kg

Configuration/802.11a 5785MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 9.387 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.502 W/kg



0 dB = 0.502 W/kg = -2.99 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5745MHz Body- Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5745 MHz; Medium parameters used: $f = 5745$ MHz; $\sigma = 6.05$ S/m; $\epsilon_r = 48.04$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5745MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.672 W/kg

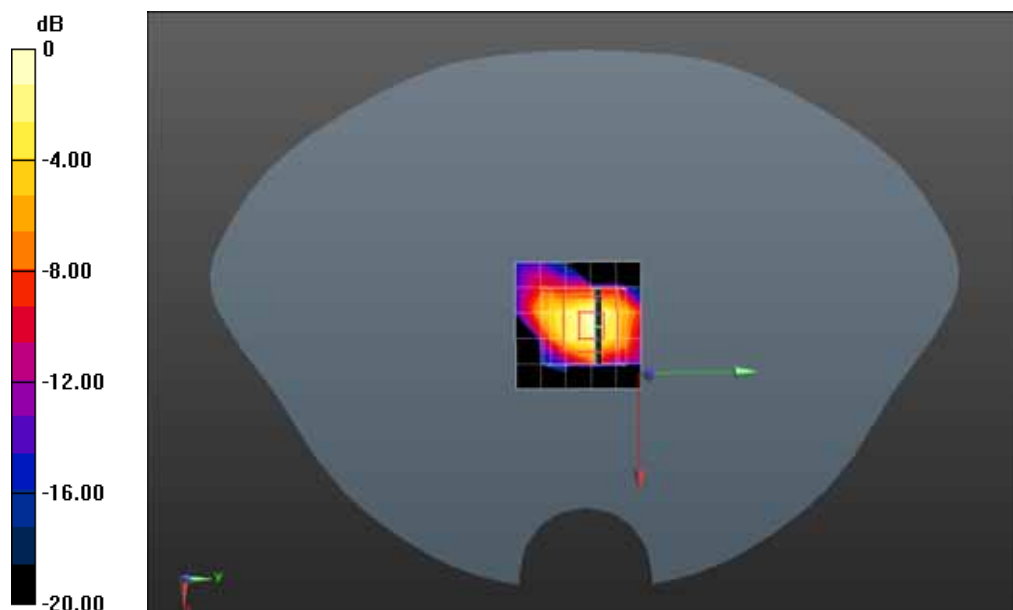
Configuration/802.11a 5745MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 13.812 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.276 W/kg

Maximum value of SAR (measured) = 0.691 W/kg



0 dB = 0.691 W/kg = -3.97 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11a 5745MHz Body- Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5745 MHz; Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.05 \text{ S/m}$; $\epsilon_r = 48.04$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11a 5745MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

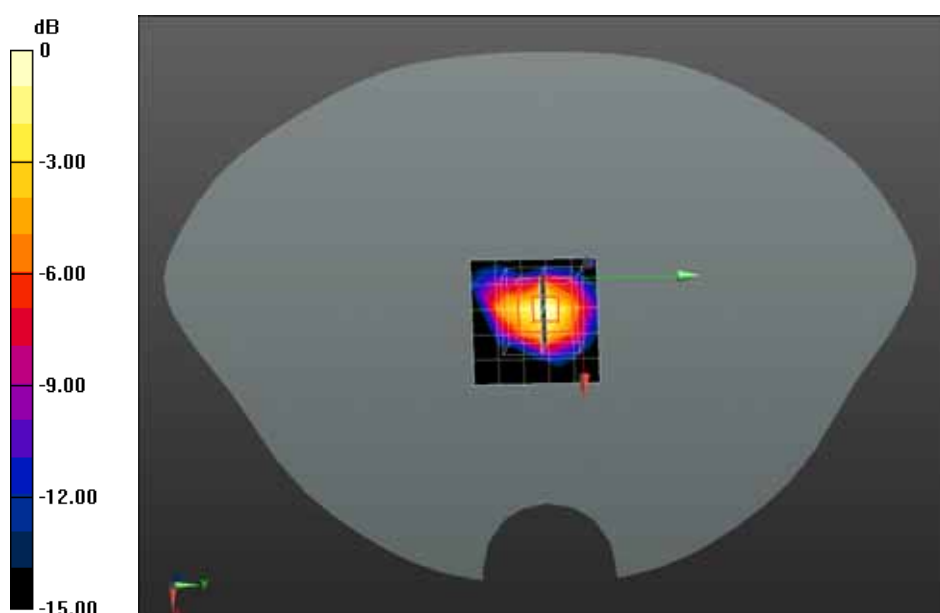
Maximum value of SAR (measured) = 0.889 W/kg

Configuration/802.11a 5745MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$; Reference Value = 12.58 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.228 W/kg Maximum value of SAR (measured) = 0.843 W/kg



0 dB = 0.843 W/kg = -0.74 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5785MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5785MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.513 W/kg

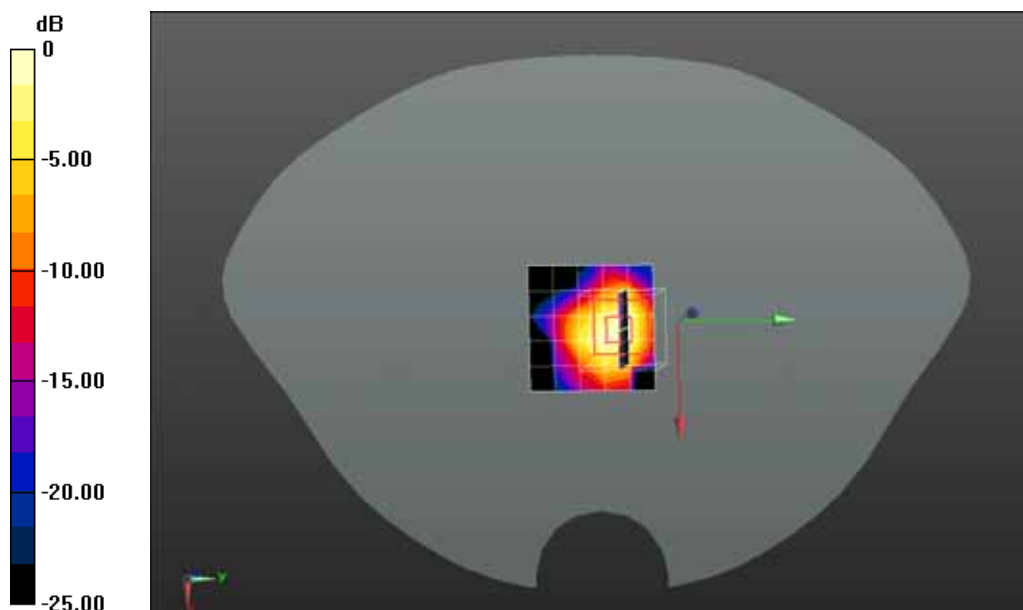
Configuration/802.11n20 5785MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 6.66 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.101 W/kg

Maximum value of SAR (measured) = 0.41 W/kg



0 dB = 0.41 W/kg = -6.30 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5785MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5785MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.572 W/kg

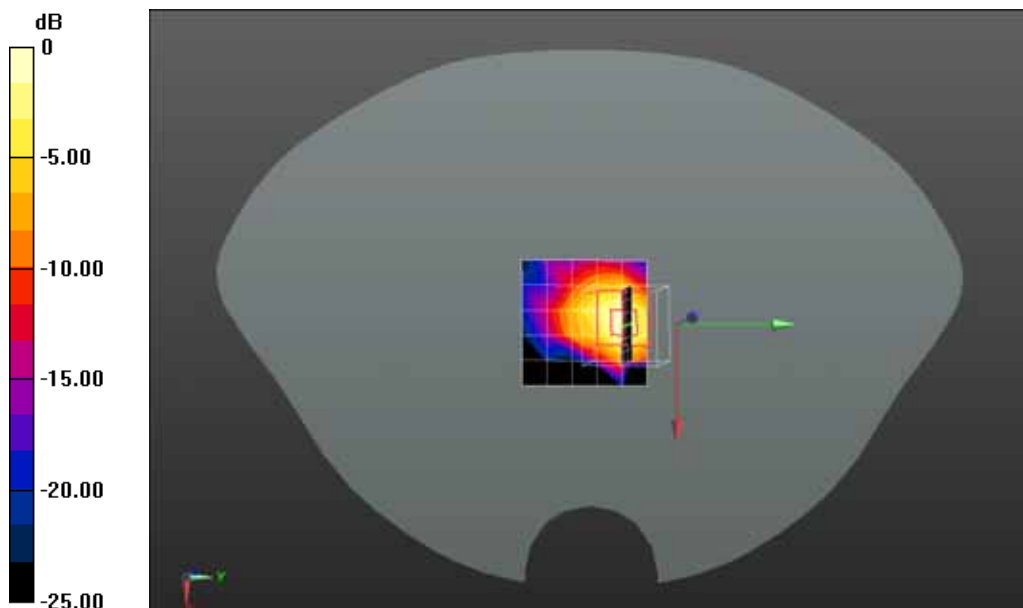
Configuration/802.11n20 5785MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.264 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.607 W/kg



0 dB = 0.607 W/kg = -2.17 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5785MHz Body-Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5785MHz Body-Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.643 W/kg

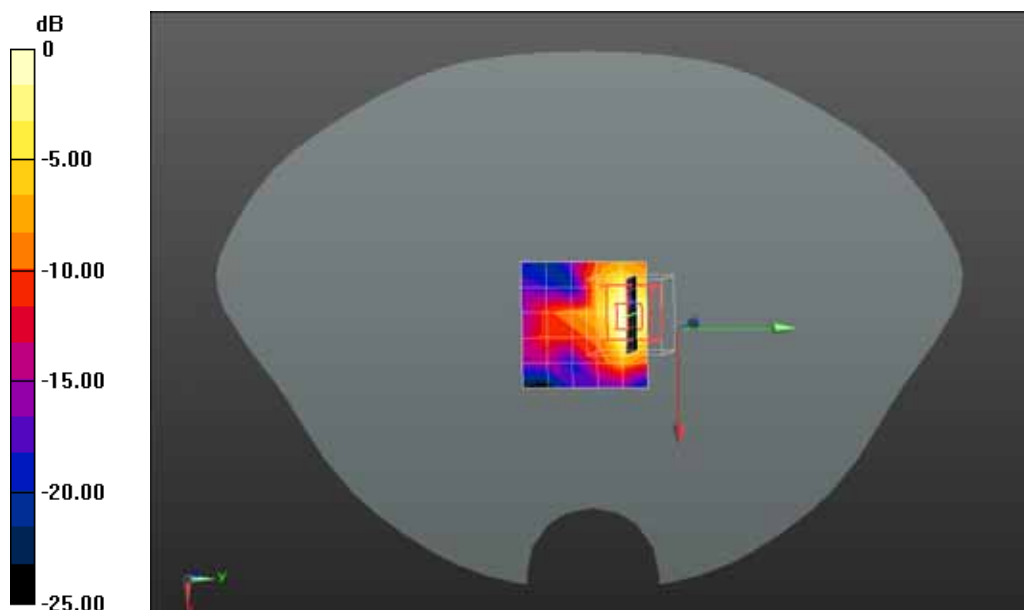
Configuration/802.11n20 5785MHz Body-Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 9.720 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.779 W/kg

SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.170 W/kg

Maximum value of SAR (measured) = 0.493 W/kg



0 dB = 0.493 W/kg = -1.33 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5785MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5785MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.88 W/kg

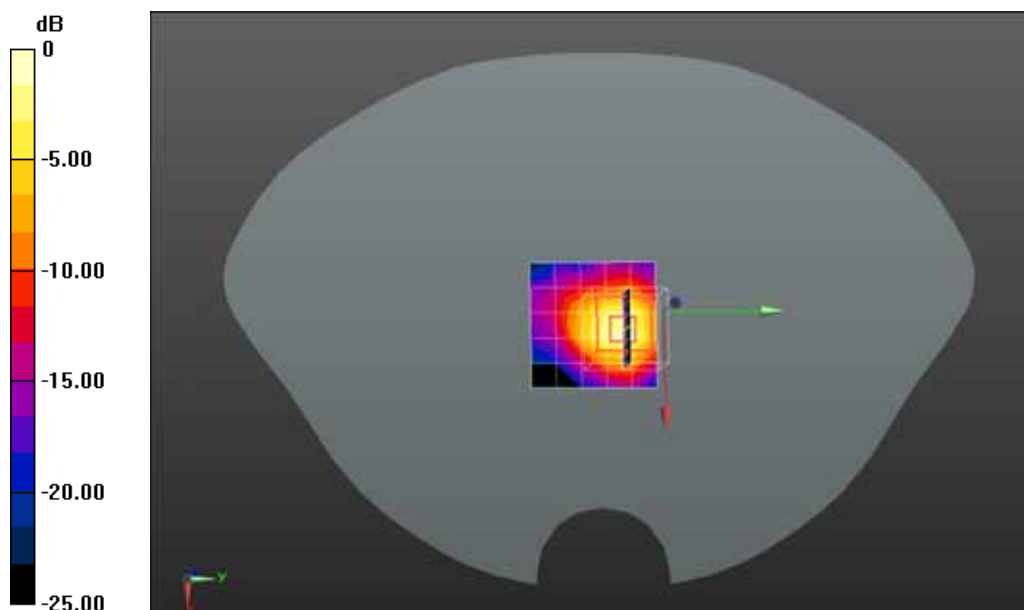
Configuration/802.11n20 5785MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.32 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.264 W/kg

Maximum value of SAR (measured) = 0.98 W/kg



0 dB = 0.98 W/kg = -1.70 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5785MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5785MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

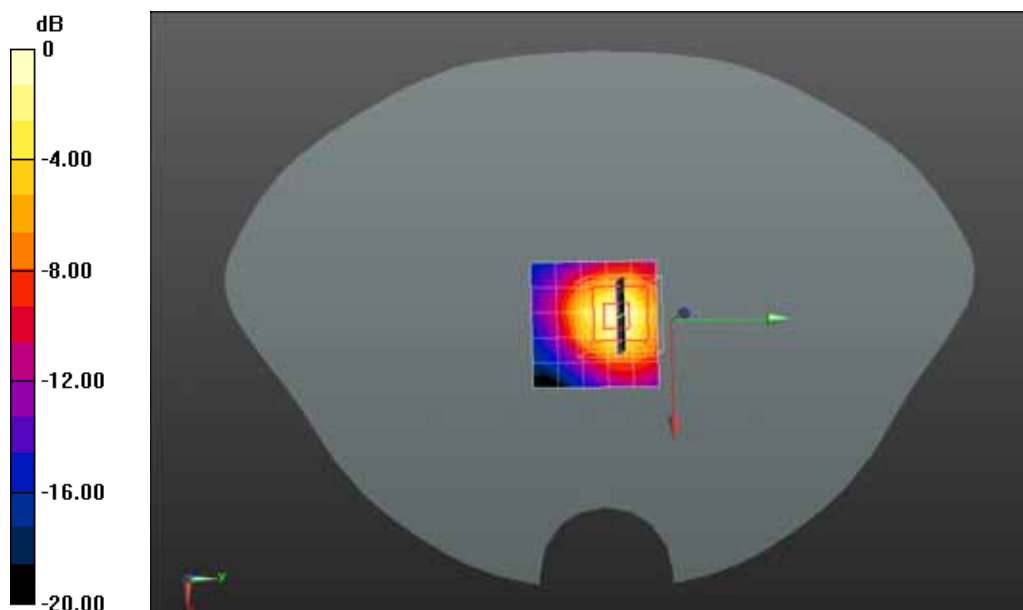
Maximum value of SAR (measured) = 0.51 W/kg

Configuration/802.11n20 5785MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 1.42 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.94 W/kg

SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.60 W/kg



0 dB = 0.60 W/kg = -9.04 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n20 5745MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5745 MHz; Medium parameters used: $f = 5745$ MHz; $\sigma = 6.05$ S/m; $\epsilon_r = 48.04$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n20 5745MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.95 W/kg

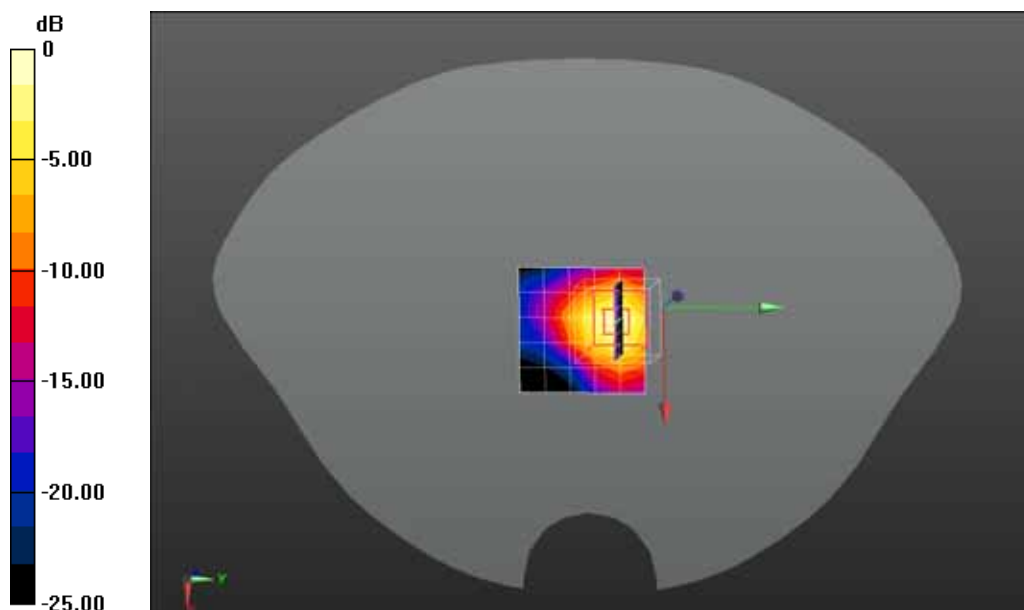
Configuration/802.11n20 5745MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 10.82 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 2.46 W/kg

SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 0.82 W/kg



0 dB = 0.82 W/kg = -2.36 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5795MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795$ MHz; $\sigma = 6.10$ S/m; $\epsilon_r = 47.91$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5795MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.43 W/kg

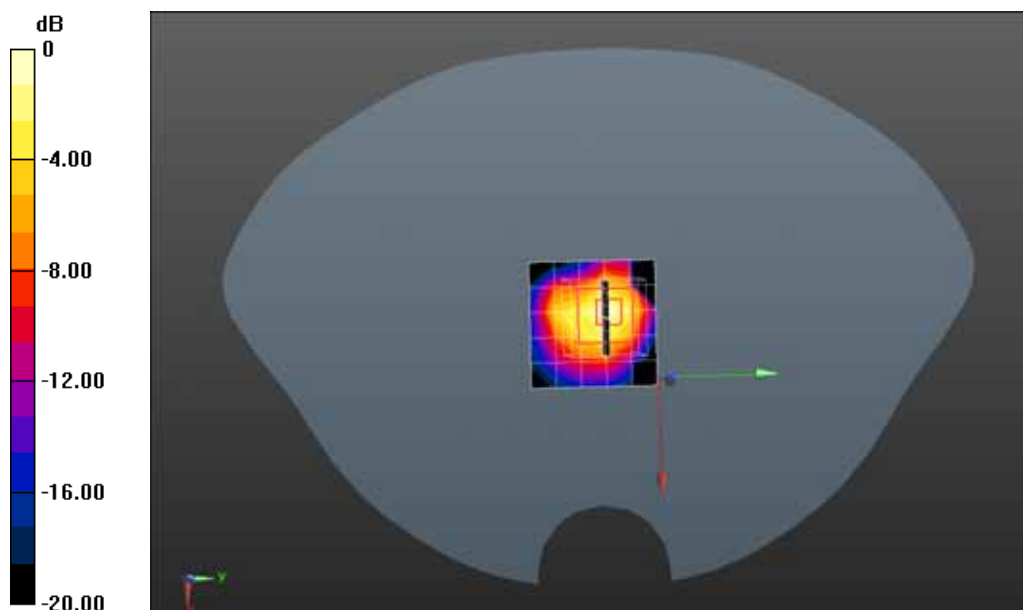
Configuration/802.11n40 5795MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 7.08 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.59 W/kg

SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.87 W/kg



0 dB = 0.87 W/kg = -3.37 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5795MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795$ MHz; $\sigma = 6.10$ S/m; $\epsilon_r = 47.91$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5795MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.93 W/kg

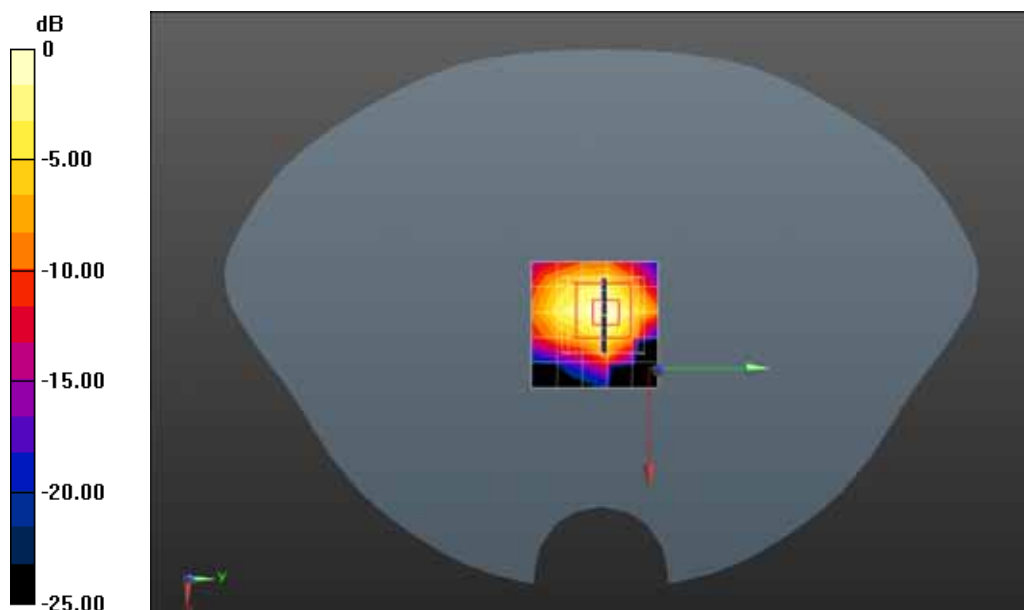
Configuration/802.11n40 5795MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 7.45 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.183 W/kg

Maximum value of SAR (measured) = 0.88 W/kg



0 dB = 0.88 W/kg = -1.40 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5795MHz Body-Vertican back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795 \text{ MHz}$; $\sigma = 6.10 \text{ S/m}$; $\epsilon_r = 47.91$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5795MHz Body-Vertican back/Area Scan (6x6x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.544 W/kg

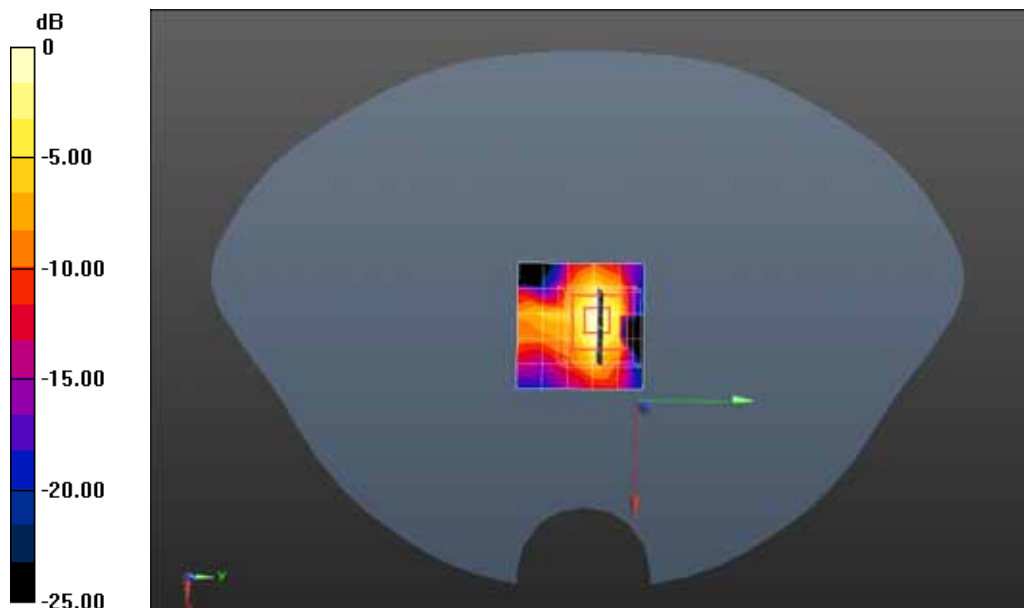
Configuration/802.11n40 5795MHz Body-Vertican back/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=2\text{mm}$; Reference Value = 10.28 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.133 W/kg

Maximum value of SAR (measured) = 0.555 W/kg



0 dB = 0.555 W/kg = -2.56 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5795MHz Body-Vertican Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795$ MHz; $\sigma = 6.10$ S/m; $\epsilon_r = 47.91$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5795MHz Body-Vertican Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.58 W/kg

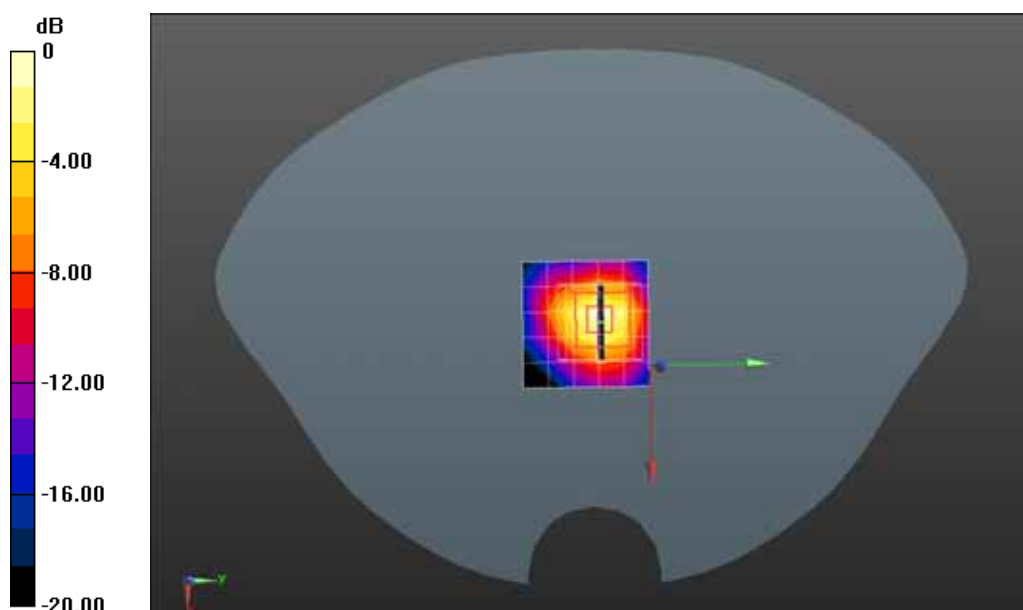
Configuration/802.11n40 5795MHz Body-Vertican Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 18.48 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 4.60 W/kg

SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.270 W/kg

Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.65 W/kg = 2.17 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5795MHz Body-Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795$ MHz; $\sigma = 6.10$ S/m; $\epsilon_r = 47.91$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5795MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

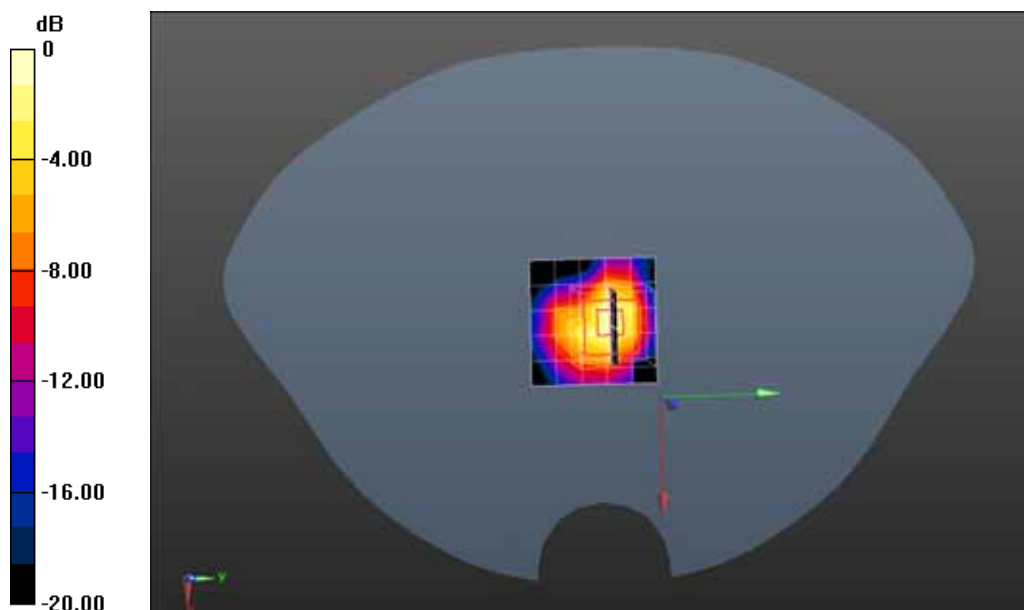
Maximum value of SAR (measured) = 0.52 W/kg

Configuration/802.11n40 5795MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 4.88 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.43 W/kg

SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.34 W/kg



0 dB = 0.34 W/kg = -15.11 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5755MHz Body- Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5755 MHz; Medium parameters used: $f = 5755$ MHz; $\sigma = 6.06$ S/m; $\epsilon_r = 48.02$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5755MHz Body- Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.98 W/kg

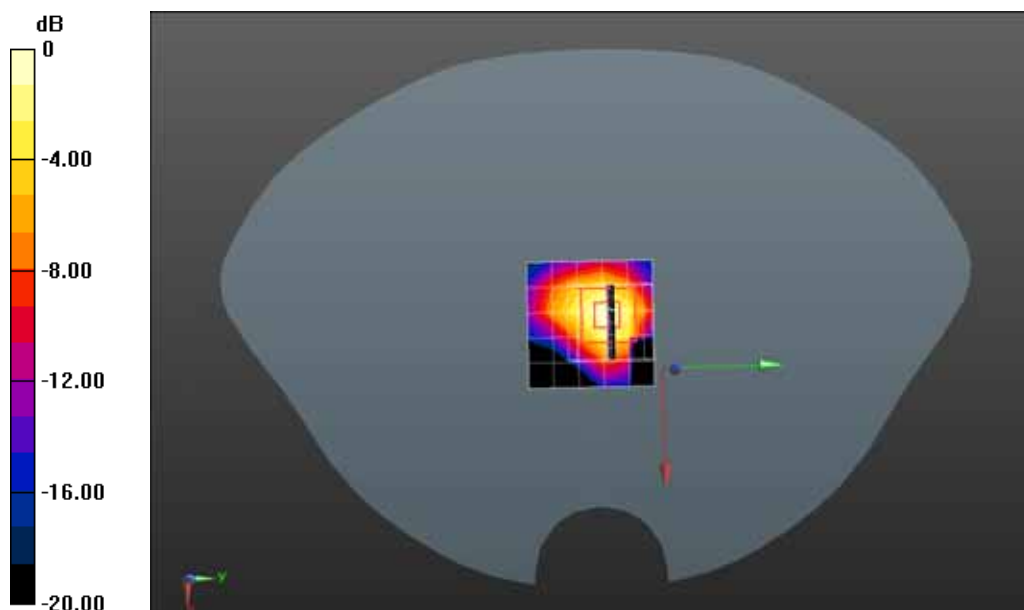
Configuration/802.11n40 5755MHz Body- Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=2mm; Reference Value = 10.13 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.193 W/kg

Maximum value of SAR (measured) = 0.91 W/kg



0 dB = 0.91 W/kg = -1.17 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11n40 5755MHz Body- Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5755 MHz; Medium parameters used: $f = 5755$ MHz; $\sigma = 6.06$ S/m; $\epsilon_r = 48.02$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11n40 5755MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.31 W/kg

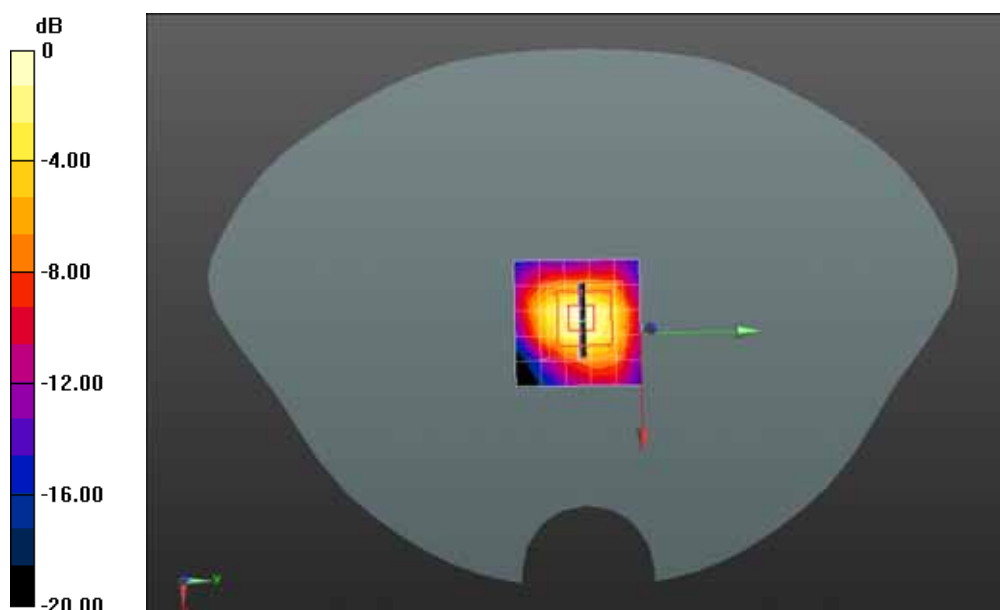
Configuration/802.11n40 5755MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 17.88 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.90 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5785MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5785MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.65 W/kg

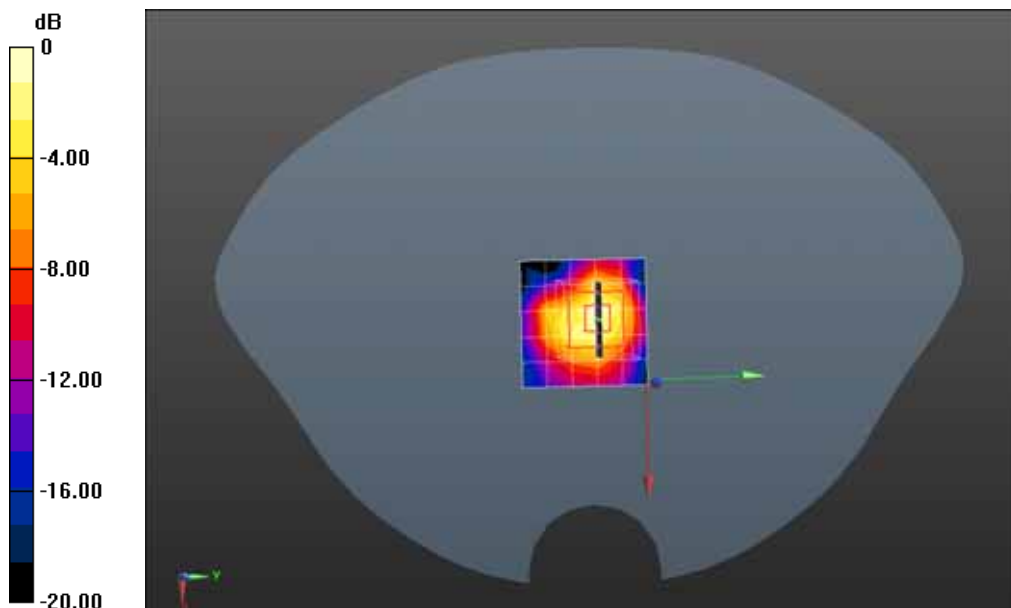
Configuration/802.11ac20 5785MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 5.16 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 0.59 W/kg



0 dB = 0.59 W/kg = -9.43 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5785MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5785MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.69 W/kg

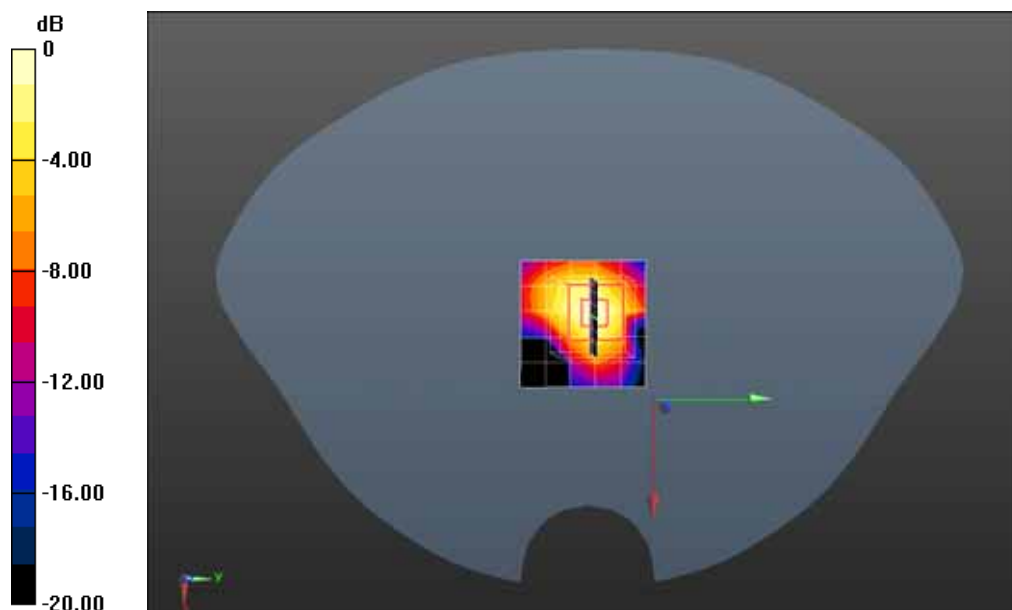
Configuration/802.11ac20 5785MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.85 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.71 W/kg



0 dB = 0.71 W/kg = -8.67 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5785MHz Body- Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5785MHz Body- Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.54 W/kg

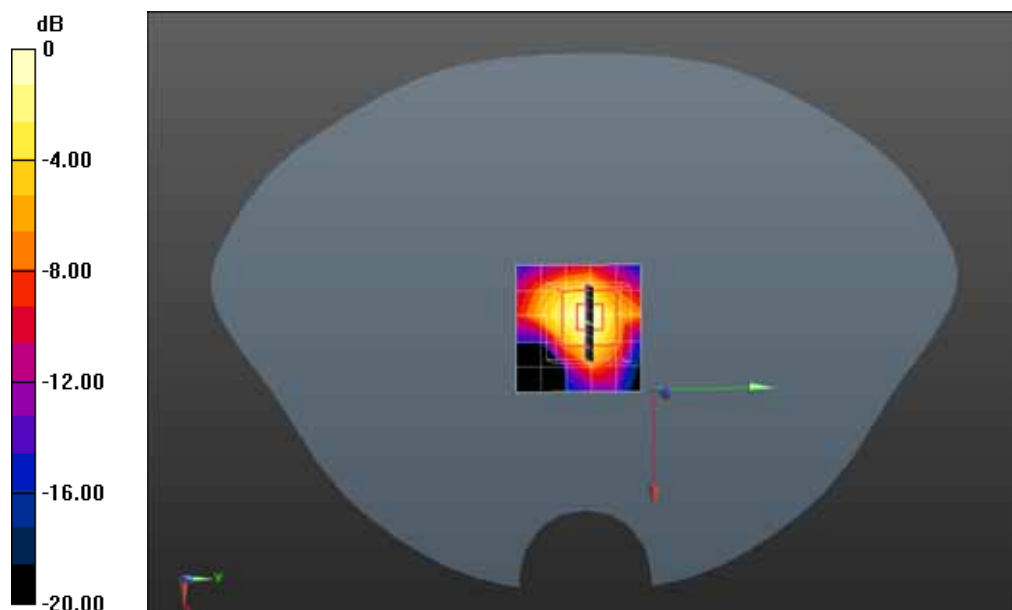
Configuration/802.11ac20 5785MHz Body- Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 8.67 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.61 W/kg

SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.075 W/kg

Maximum value of SAR (measured) = 0.38 W/kg



0 dB = 0.38 W/kg = -7.40 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5785MHz Body- Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5785MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.00 W/kg

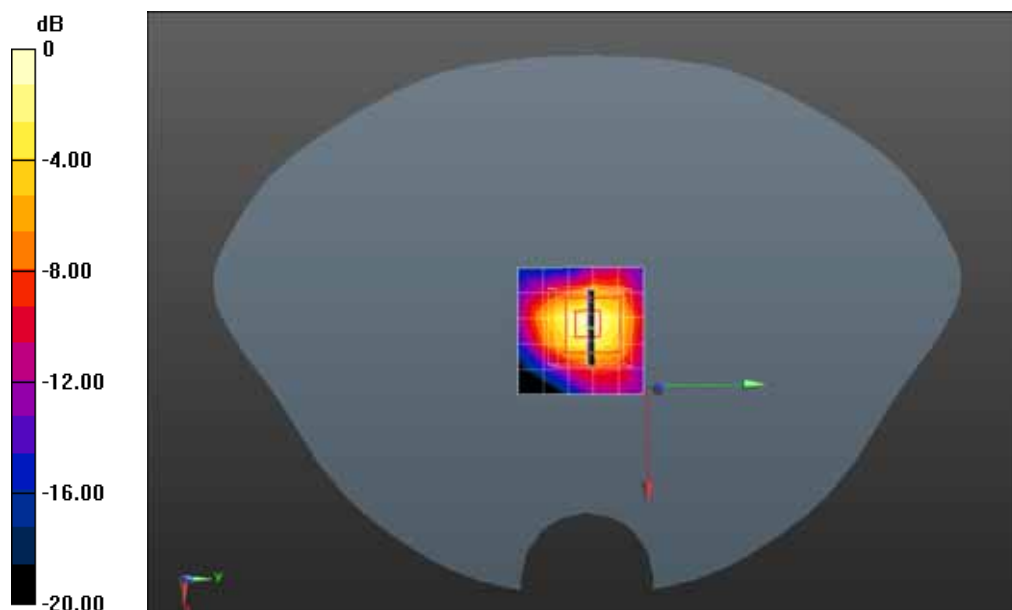
Configuration/802.11ac20 5785MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 7.80 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.231 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = -3.93 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5785MHz Body- Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5785 MHz; Medium parameters used: $f = 5785$ MHz; $\sigma = 6.09$ S/m; $\epsilon_r = 47.94$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5785MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

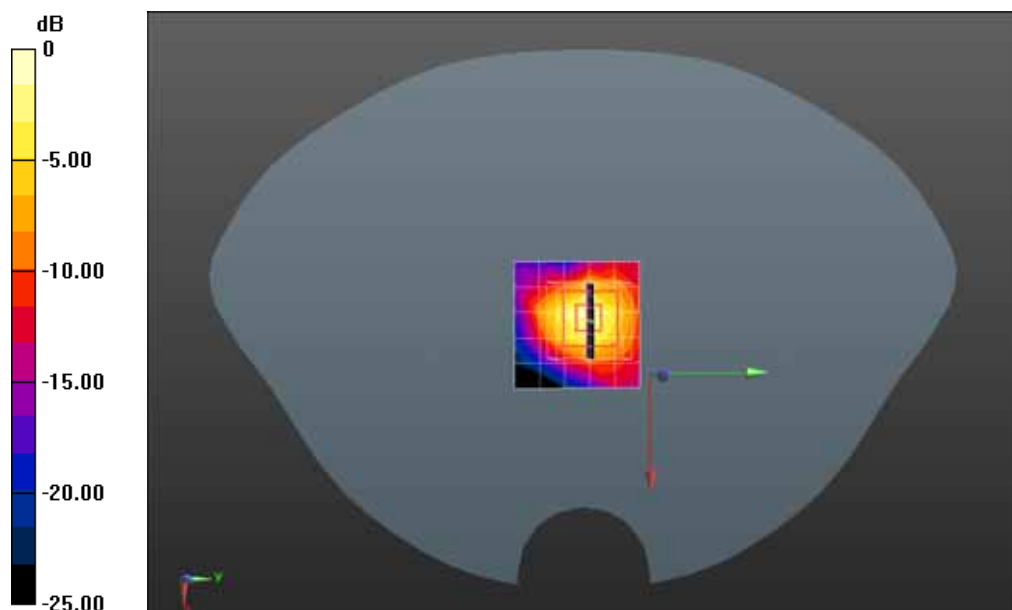
Maximum value of SAR (measured) = 0.55 W/kg

Configuration/802.11ac20 5785MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 6.50 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.31 W/kg

SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.058 W/kg

Maximum value of SAR (measured) = 0.26 W/kg



0 dB = 0.26 W/kg = -10.93 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac20 5825MHz Body-Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5825 MHz; Medium parameters used: $f = 5825$ MHz; $\sigma = 6.13$ S/m; $\epsilon_r = 47.84$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac20 5825MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.12 W/kg

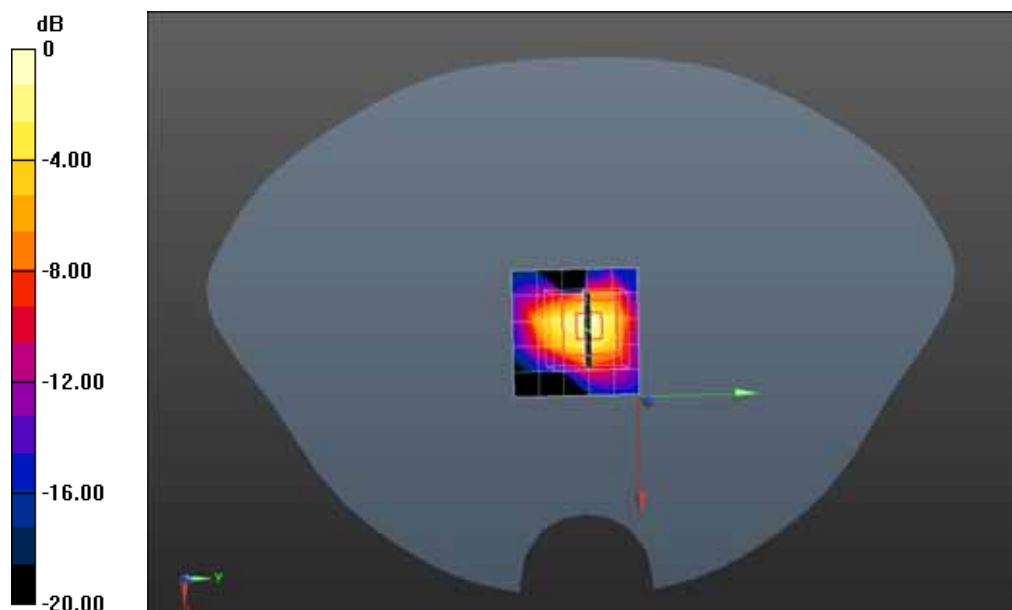
Configuration/802.11ac20 5825MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 14.95 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.252 W/kg

Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5795MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795$ MHz; $\sigma = 6.10$ S/m; $\epsilon_r = 47.91$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5795MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.827 W/kg

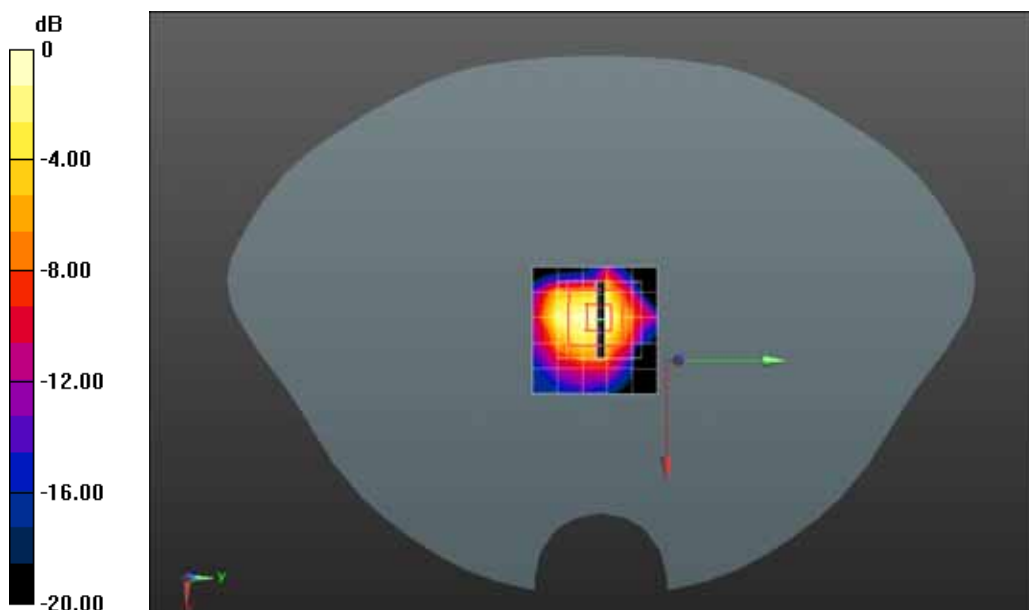
Configuration/802.11ac40 5795MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 12.47 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.872 W/kg



0 dB = 0.872 W/kg = -0.59 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5795MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795$ MHz; $\sigma = 6.10$ S/m; $\epsilon_r = 47.91$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5795MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.21 W/kg

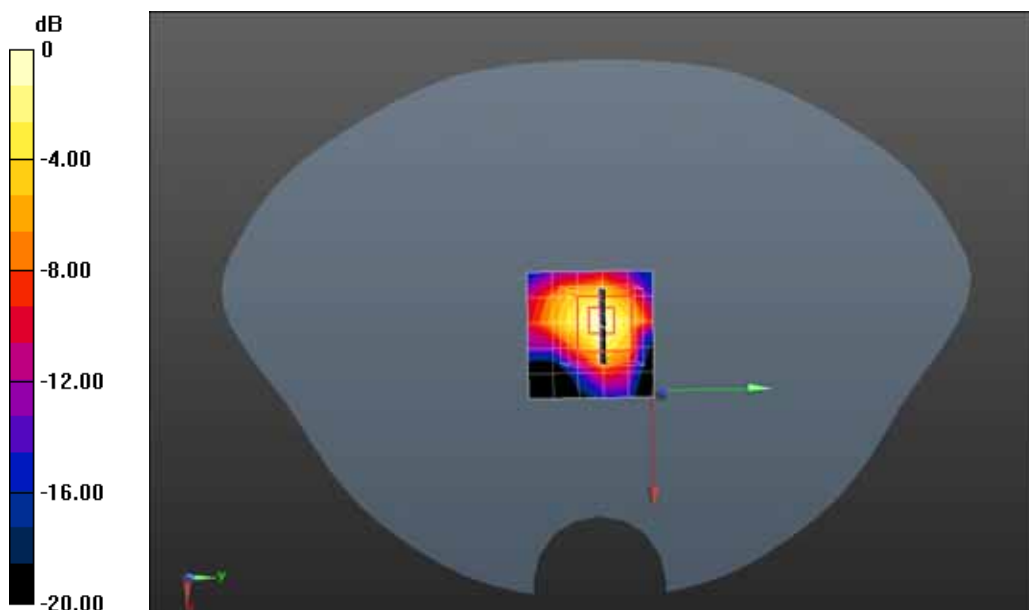
Configuration/802.11ac40 5795MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 15.06 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.149 W/kg

Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5795MHz Body- Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795$ MHz; $\sigma = 6.10$ S/m; $\epsilon_r = 47.91$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5795MHz Body-Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.737 W/kg

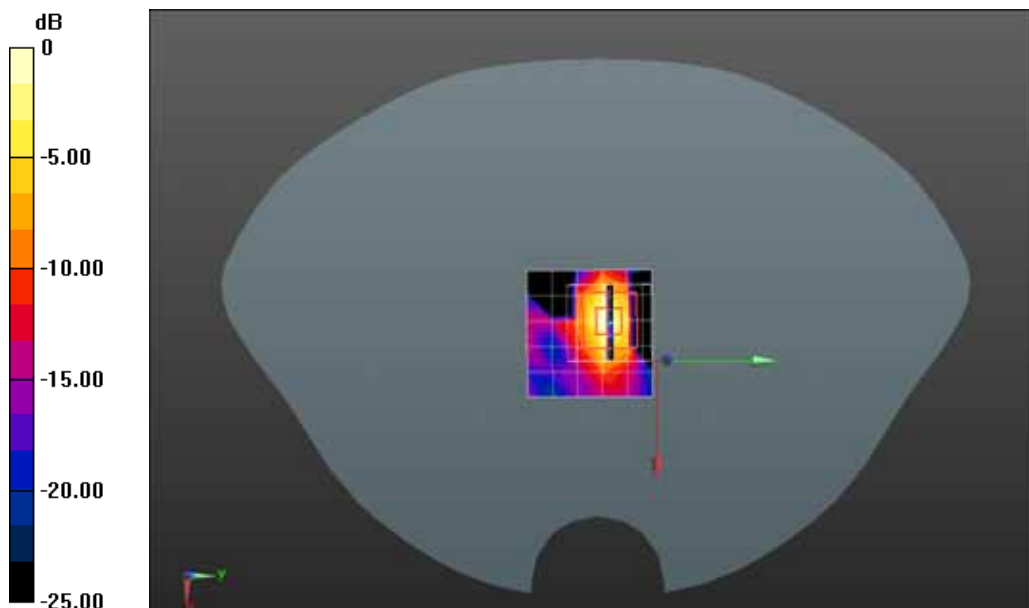
Configuration/802.11ac40 5795MHz Body-Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 11.51 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.064 W/kg

Maximum value of SAR (measured) = 0.732 W/kg



0 dB = 0.732 W/kg = -1.35 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5795MHz Body- Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795$ MHz; $\sigma = 6.10$ S/m; $\epsilon_r = 47.91$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5795MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

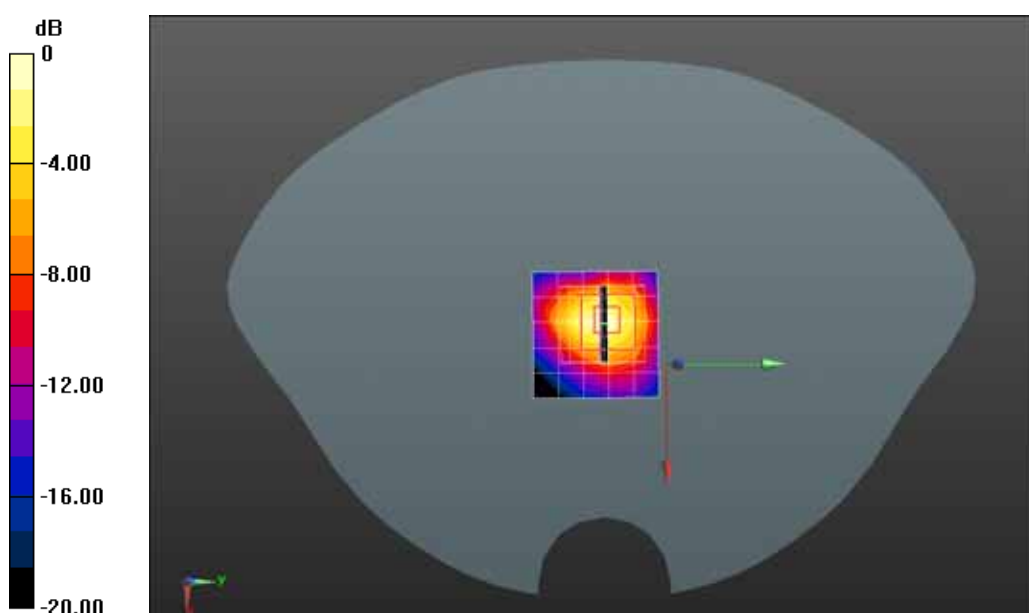
Maximum value of SAR (measured) = 1.50 W/kg

Configuration/802.11ac40 5795MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 17.06 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.244 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac40 5795MHz Body- Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5795 MHz; Medium parameters used: $f = 5795$ MHz; $\sigma = 6.10$ S/m; $\epsilon_r = 47.91$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac40 5795MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

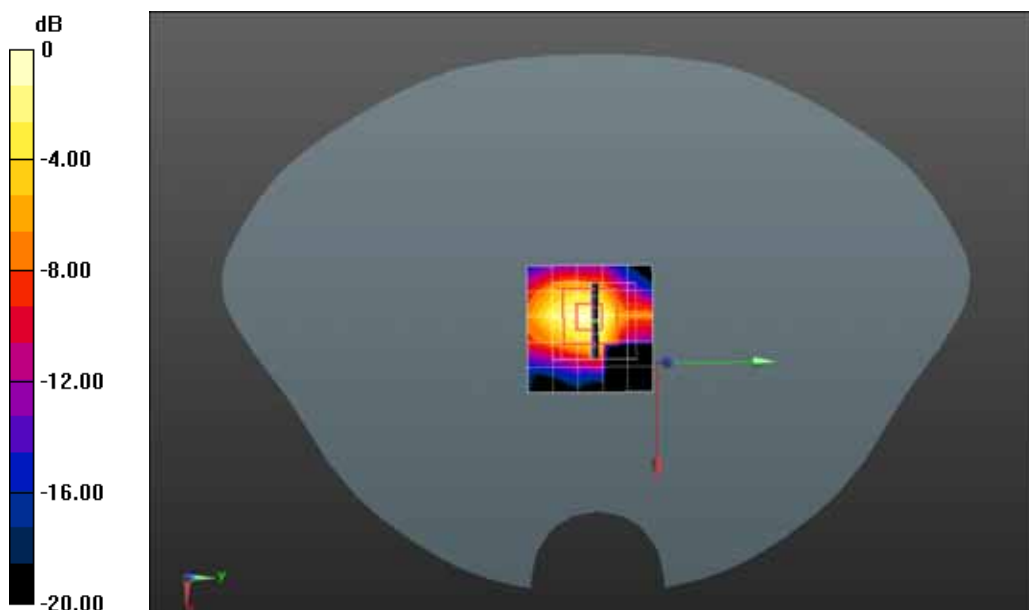
Maximum value of SAR (measured) = 0.082 W/kg

Configuration/802.11ac40 5795MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 4.71 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.31 W/kg

SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.10 W/kg



0 dB = 0.10 W/kg = -20.41 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5775MHz Body-Horizontal Up

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5775 MHz; Medium parameters used: $f = 5775$ MHz; $\sigma = 6.08$ S/m; $\epsilon_r = 47.96$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5775MHz Body-Horizontal Up/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.885 W/kg

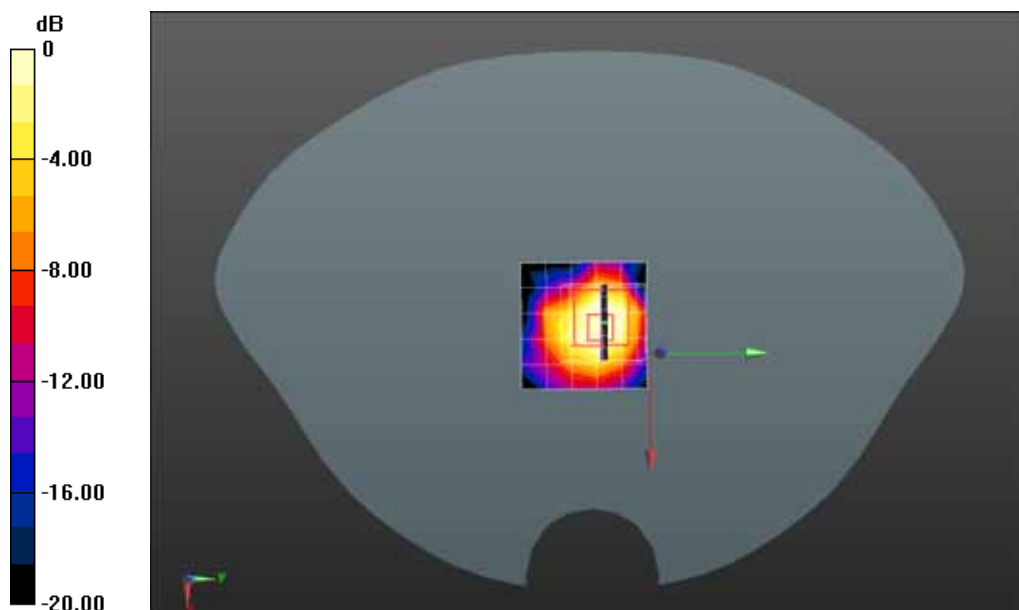
Configuration/802.11ac80 5775MHz Body-Horizontal Up/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 5.05 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.543 W/kg



0 dB = 0.543 W/kg = -2.65 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5775MHz Body-Horizontal Down

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5775 MHz; Medium parameters used: $f = 5775$ MHz; $\sigma = 6.08$ S/m; $\epsilon_r = 47.96$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5775MHz Body-Horizontal Down/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.863 W/kg

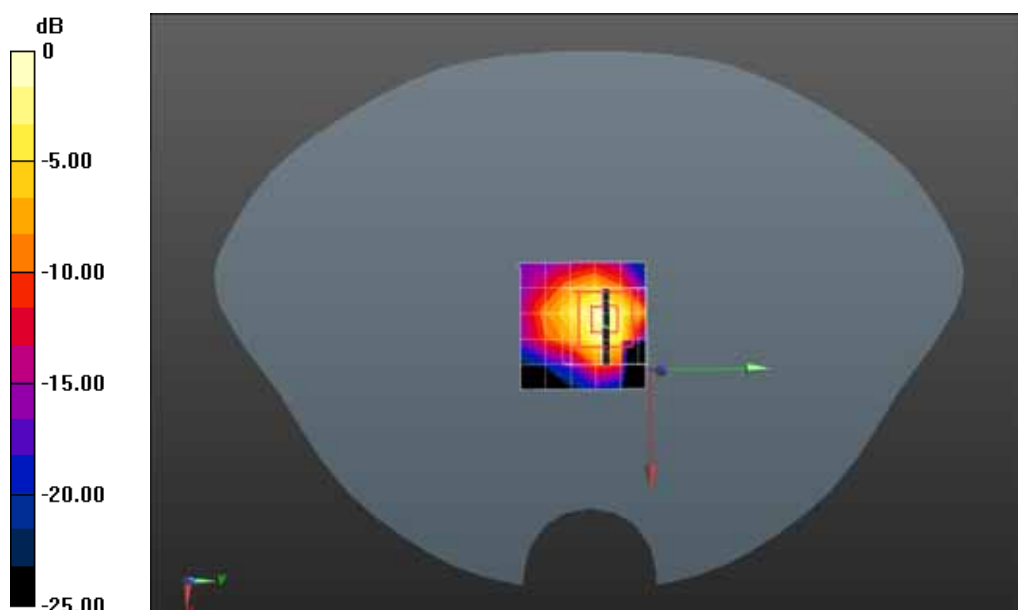
Configuration/802.11ac80 5775MHz Body-Horizontal Down/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 15.94 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5775MHz Body- Vertical Back

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5775 MHz; Medium parameters used: $f = 5775$ MHz; $\sigma = 6.08$ S/m; $\epsilon_r = 47.96$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5775MHz Body-Vertical Back/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.324 W/kg

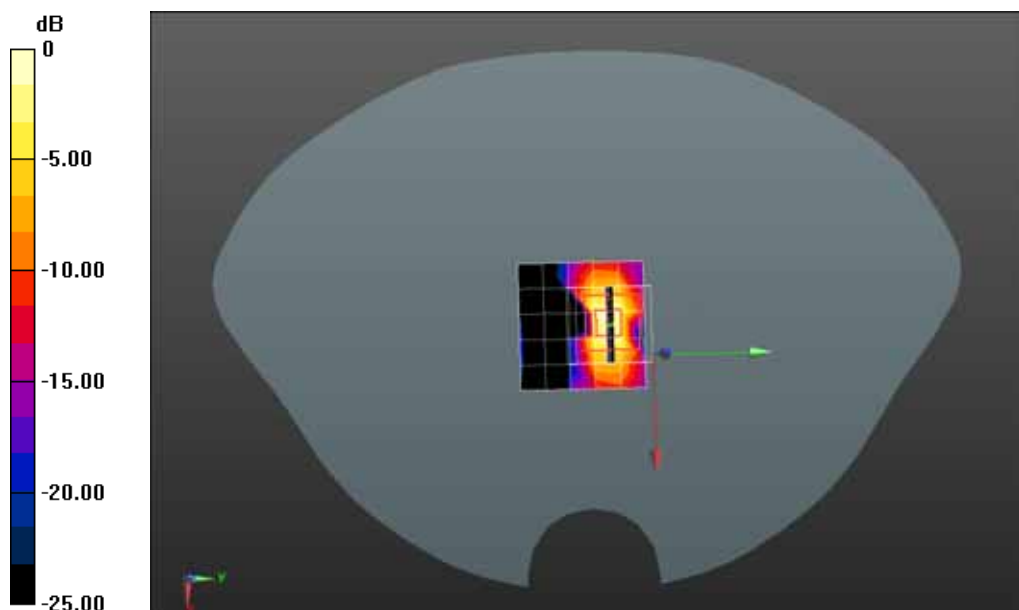
Configuration/802.11ac80 5775MHz Body-Vertical Back/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 7.430 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.456 W/kg



0 dB = 0.456 W/kg = -3.41 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5775MHz Body- Vertical Front

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5775 MHz; Medium parameters used: $f = 5775$ MHz; $\sigma = 6.08$ S/m; $\epsilon_r = 47.96$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5775MHz Body-Vertical Front/Area Scan (6x6x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.14 W/kg

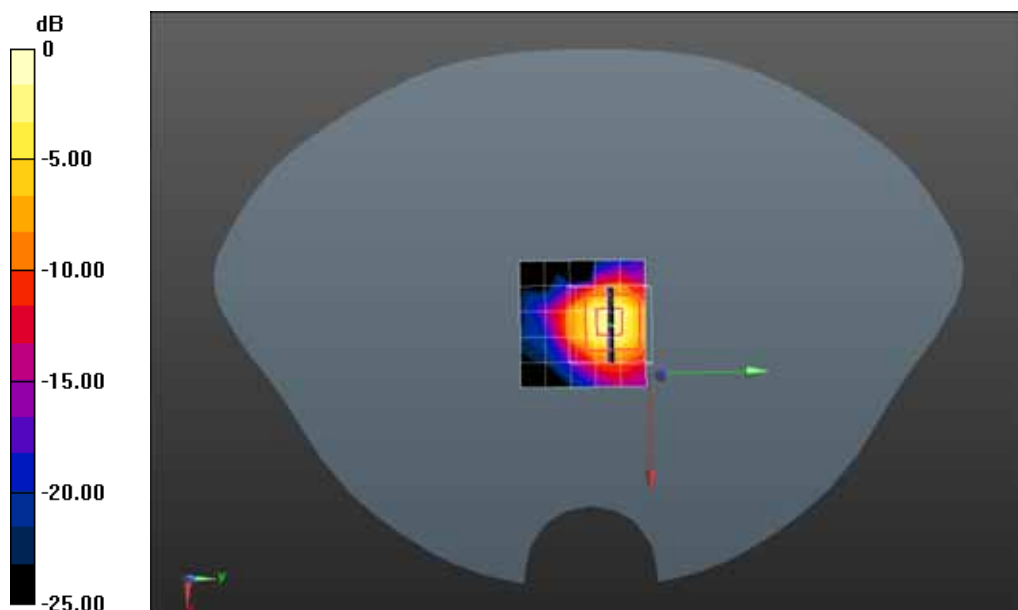
Configuration/802.11ac80 5775MHz Body-Vertical Front/Zoom Scan (7x7x6)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 10.41 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 1.63 W/kg



0 dB = 1.63 W/kg = 2.12 dBW/kg

Date/Time: 06-06-2016

Test Laboratory: QuieTek Lab

802.11ac80 5775MHz Body- Tip

DUT: AC450 Wireless Nano USB Adapter; Type: Archer T1U

Communication System: UID 0, CW (0); Communication System Band: 5GHz(5000.0-6000.0MHz); Duty Cycle: 1:1.0; Frequency: 5775 MHz; Medium parameters used: $f = 5775$ MHz; $\sigma = 6.08$ S/m; $\epsilon_r = 47.96$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN3710; ConvF(3.80, 3.80, 3.80); Calibrated: 19/02/2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1220; Calibrated: 09/02/2016
- Phantom: SAM1; Type: SAM; Serial: TP1561
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/802.11ac80 5775MHz Body-Tip/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

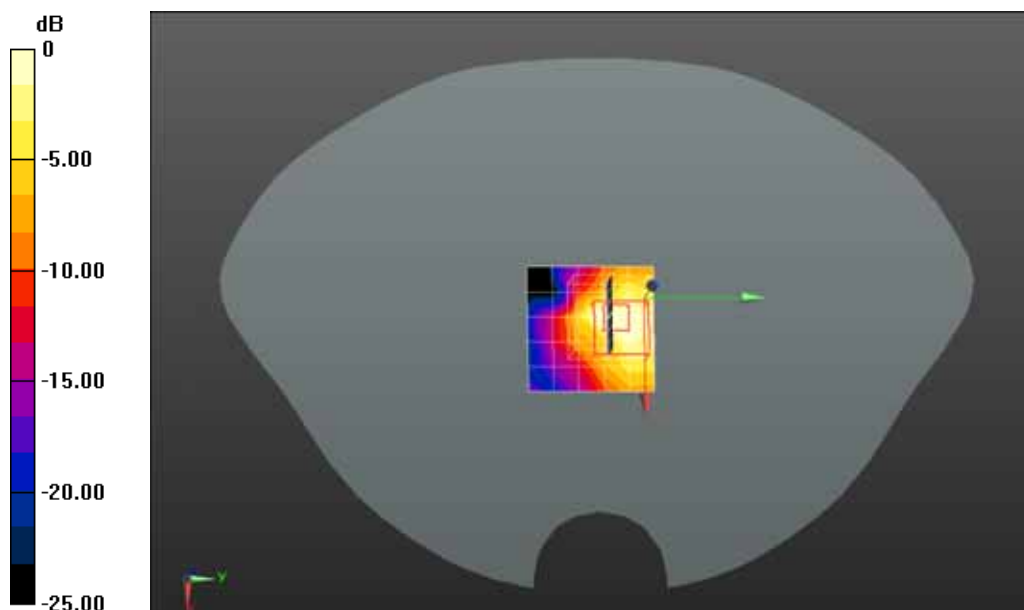
Maximum value of SAR (measured) = 0.430 W/kg

Configuration/802.11ac80 5775MHz Body-Tip/Zoom Scan (7x7x6)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm; Reference Value = 9.631 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.978 W/kg

SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.035 W/kg

Maximum value of SAR (measured) = 0.104 W/kg



0 dB = 0.104 W/kg = -6.13 dBW/kg

Appendix C. Probe Calibration Data

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **QTK-CN (Auden)**

Certificate No: **EX3-3710_Feb16**

CALIBRATION CERTIFICATE	
Object	EX3DV4 - SN:3710
Calibration procedure(s)	QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	February 19, 2016
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.	
All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.	
Calibration Equipment used (M&TE critical for calibration)	

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	01-Apr-15 (No. 217-02128)	Mar-16
Power sensor E4412A	MY41498067	01-Apr-15 (No. 217-02128)	Mar-16
Reference 3 dB Attenuator	SN: S5054 (3c)	01-Apr-15 (No. 217-02129)	Mar-16
Reference 20 dB Attenuator	SN: S5277 (20x)	01-Apr-15 (No. 217-02132)	Mar-16
Reference 30 dB Attenuator	SN: S5129 (30b)	01-Apr-15 (No. 217-02133)	Mar-16
Reference Probe ES3DV2	SN: 3013	31-Dec-15 (No. ES3-3013_Dec15)	Dec-16
DAE4	SN: 680	23-Dec-15 (No. DAE4-680_Dec15)	Dec-16
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3542U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US3739C585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16

Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Technical Manager	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			Issued: February 20, 2016

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



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S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}:** Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}:** DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR:** PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}:** A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters:** Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy):** in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset:** The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle:** The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

EX3DV4 – SN:3710

February 19, 2016

Probe EX3DV4

SN:3710

Manufactured: July 21, 2009
Calibrated: February 19, 2016

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

EX3DV4- SN:3710

February 19, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3710

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.40	0.39	0.48	± 10.1 %
DCP (mV) ^B	102.5	102.6	100.3	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^C (k=2)
0	CW	X	0.0	0.0	1.0	0.00	183.2	±3.0 %
		Y	0.0	0.0	1.0		187.9	
		Z	0.0	0.0	1.0		183.9	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^C Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

EX3DV4 - SN:3710

February 19, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3710

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^f	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha ^g	Depth ^g (mm)	Unc (k=2)
450	43.5	0.87	9.92	9.92	9.92	0.20	1.50	± 13.3 %
750	41.9	0.89	9.83	9.83	9.83	0.24	1.30	± 12.0 %
835	41.5	0.90	9.29	9.29	9.29	0.18	1.65	± 12.0 %
900	41.5	0.97	9.11	9.11	9.11	0.26	1.23	± 12.0 %
1810	40.0	1.40	8.09	8.09	8.09	0.45	0.83	± 12.0 %
1900	40.0	1.40	7.94	7.94	7.94	0.39	0.83	± 12.0 %
2450	39.2	1.80	7.24	7.24	7.24	0.47	0.81	± 12.0 %
2600	39.0	1.96	6.95	6.95	6.95	0.43	0.88	± 12.0 %
3500	37.9	2.91	7.05	7.05	7.05	0.38	0.99	± 13.1 %
5250	35.9	4.71	5.10	5.10	5.10	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.57	4.57	4.57	0.45	1.80	± 13.1 %
5750	35.4	5.22	4.59	4.59	4.59	0.50	1.80	± 13.1 %

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^f At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^g Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

EX3DV4- SN:3710

February 19, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3710

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^f	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha ^g	Depth ^g (mm)	Unc (k=2)
450	56.7	0.94	10.22	10.22	10.22	0.08	1.50	± 13.3 %
750	55.5	0.96	9.49	9.49	9.49	0.35	1.00	± 12.0 %
835	55.2	0.97	9.37	9.37	9.37	0.30	1.10	± 12.0 %
900	55.0	1.05	9.27	9.27	9.27	0.29	1.10	± 12.0 %
1810	53.3	1.52	7.81	7.81	7.81	0.45	0.80	± 12.0 %
1900	53.3	1.52	7.60	7.60	7.60	0.34	0.80	± 12.0 %
2450	52.7	1.95	7.08	7.08	7.08	0.35	0.86	± 12.0 %
2600	52.5	2.16	6.77	6.77	6.77	0.36	0.95	± 12.0 %
3500	51.3	3.31	6.28	6.28	6.28	0.24	1.52	± 13.1 %
5250	48.9	5.36	4.35	4.35	4.35	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.67	3.67	3.67	0.60	1.90	± 13.1 %
5750	48.3	5.94	3.80	3.80	3.80	0.60	1.90	± 13.1 %

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

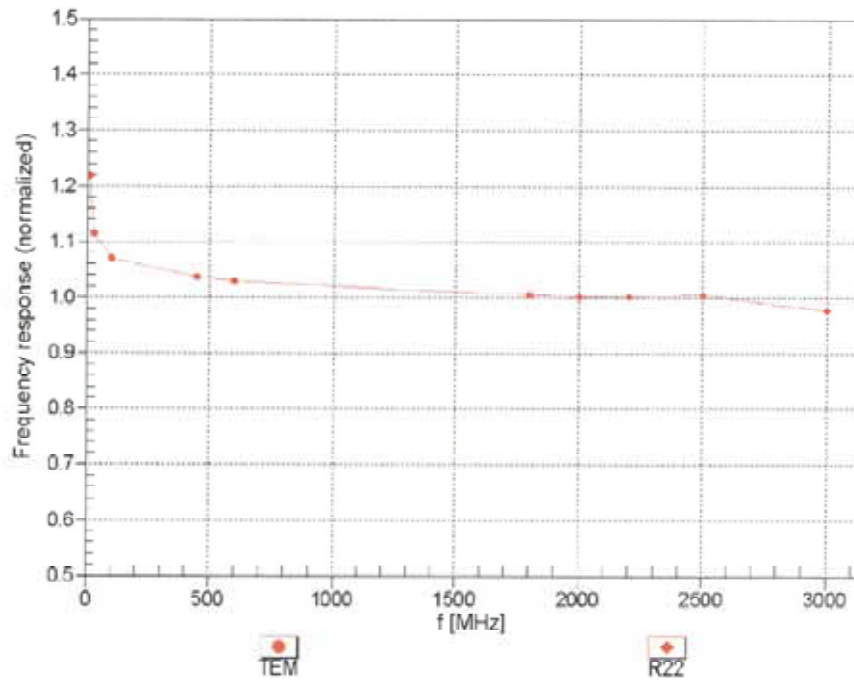
^f At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^g Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

EX3DV4- SN:3710

February 19, 2016

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

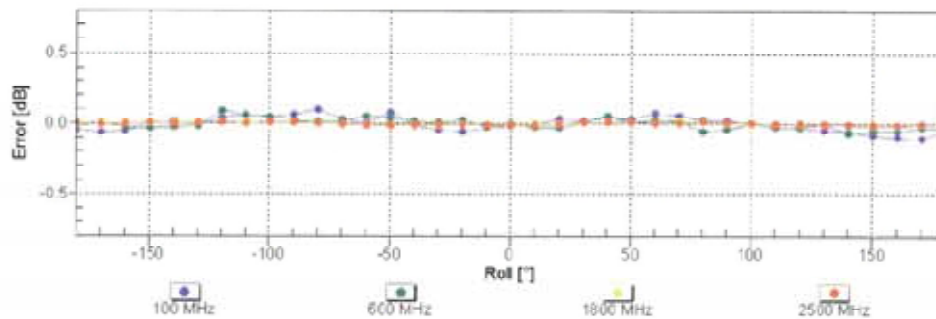
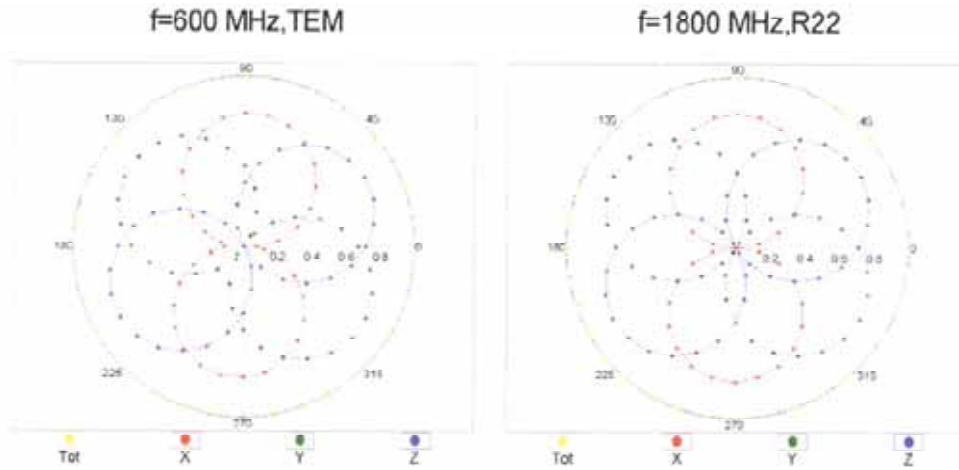


Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

EX3DV4- SN:3710

February 19, 2016

Receiving Pattern (ϕ), $\theta = 0^\circ$

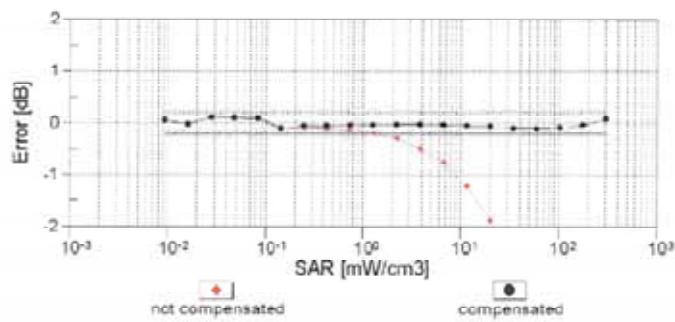
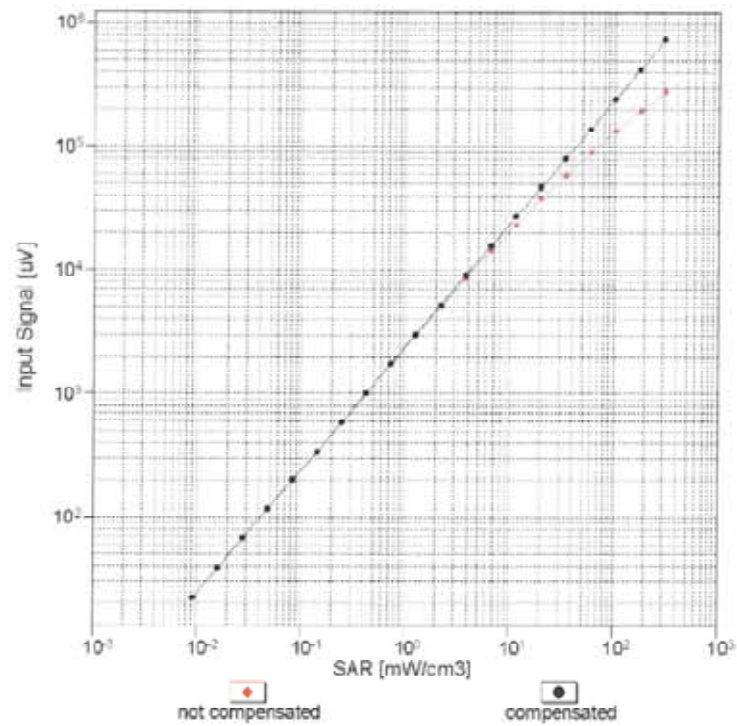


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

EX3DV4- SN:3710

February 19, 2016

Dynamic Range $f(SAR_{head})$ (TEM cell , $f_{eval} = 1900$ MHz)

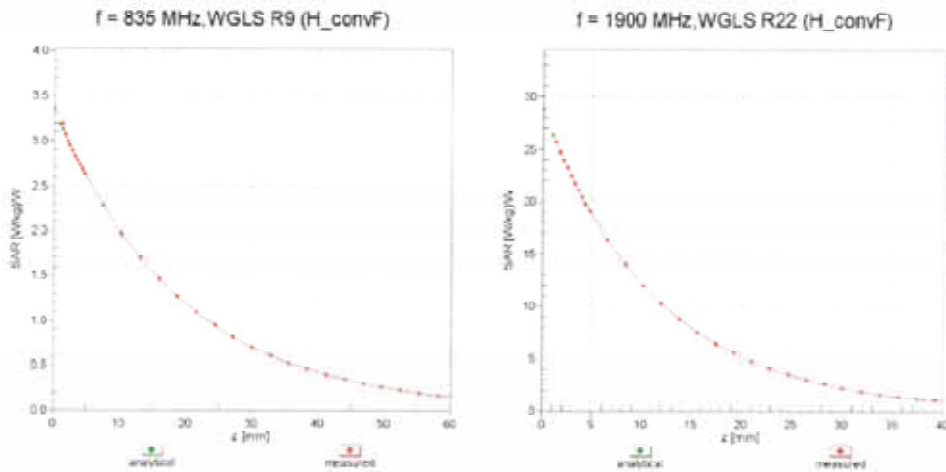


Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

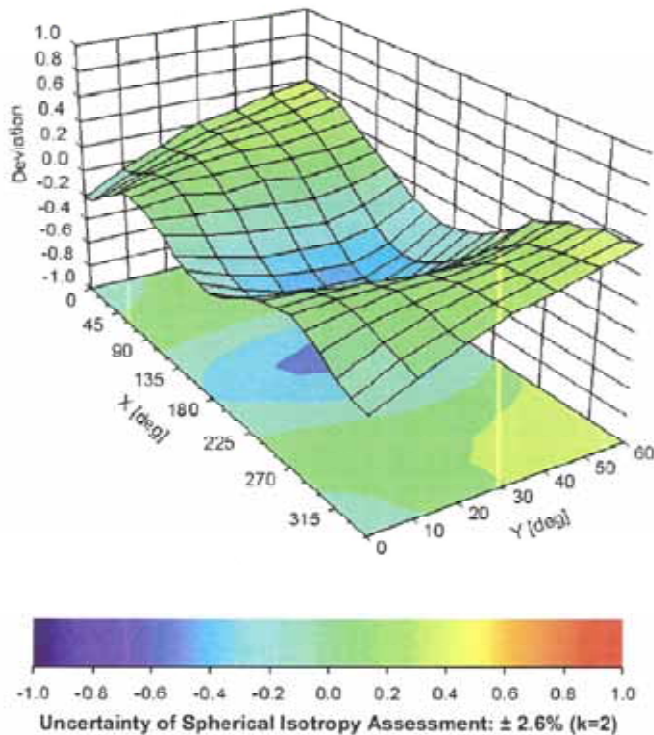
EX3DV4- SN:3710

February 19, 2016

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, θ), f = 900 MHz



EX3DV4- SN:3710

February 19, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3710

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	80.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix D. Dipole Calibration Data

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



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The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **QTK-CN (Auden)**

Certificate No: **D5GHzV2-1078_Feb16**

CALIBRATION CERTIFICATE			
Object	D5GHzV2 - SN: 1078		
Calibration procedure(s)	QA CAL-22.v2 Calibration procedure for dipole validation kits between 3-6 GHz		
Calibration date:	February 10, 2016		
<p>This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.</p> <p>All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.</p> <p>Calibration Equipment used (M&TE critical for calibration)</p>			
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	07-Oct-15 (No. 217-02222)	Oct-16
Power sensor HP 6481A	US37292783	07-Oct-15 (No. 217-02222)	Oct-16
Power sensor HP 6481A	MY41092317	07-Oct-15 (No. 217-02223)	Oct-16
Reference 20 dB Attenuator	SN: 5058 (20k)	01-Apr-15 (No. 217-02131)	Mar-16
Type-N mismatch combination	SN: 5047.2 / 06327	01-Apr-15 (No. 217-02134)	Mar-16
Reference Probe EX3DV4	SN: 3503	31-Dec-15 (No. EX3-3503_Dec15)	Dec-16
DAE4	SN: 601	30-Dec-15 (No. DAE4-601_Dec15)	Dec-16
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100972	15-Jun-15 (in house check Jun-15)	In house check: Jun-18
Network Analyzer HP 8753E	US37390595 S4206	18-Oct-01 (in house check Oct-15)	In house check: Oct-16
Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature
			Issued: February 11, 2016
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



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The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL tissue simulating liquid
ConvF sensitivity in TSL / NORM x,y,z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz	

Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	4.55 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.71 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	76.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	4.90 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.11 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.6 W / kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.5 ± 6 %	5.05 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.79 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.24 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.2 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.36 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.1 ± 6 %	5.46 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.42 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	73.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.10 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.8 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.4 ± 6 %	5.94 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.94 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	78.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.25 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.3 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.3	5.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.2 ± 6 %	6.15 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.58 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.13 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.1 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	51.7 Ω - 7.8 j Ω
Return Loss	- 22.2 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	56.9 Ω - 5.9 j Ω
Return Loss	- 21.5 dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	55.8 Ω - 1.3 j Ω
Return Loss	- 25.0 dB

Antenna Parameters with Body TSL at 5250 MHz

Impedance, transformed to feed point	52.3 Ω - 6.5 j Ω
Return Loss	- 23.4 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	58.3 Ω - 3.4 j Ω
Return Loss	- 21.6 dB

Antenna Parameters with Body TSL at 5750 MHz

Impedance, transformed to feed point	56.2 Ω + 0.4 j Ω
Return Loss	- 24.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.192 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	September 26, 2008

DASY5 Validation Report for Head TSL

Date: 04.02.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1078

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz
Medium parameters used: $f = 5250$ MHz; $\sigma = 4.55$ S/m; $\epsilon_r = 35.2$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5600$ MHz; $\sigma = 4.9$ S/m; $\epsilon_r = 34.7$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5750$ MHz; $\sigma = 5.05$ S/m; $\epsilon_r = 34.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.53, 5.53, 5.53); Calibrated: 31.12.2015, ConvF(4.99, 4.99, 4.99); Calibrated: 31.12.2015, ConvF(4.95, 4.95, 4.95); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 72.58 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 17.5 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 72.43 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 31.4 W/kg

SAR(1 g) = 8.11 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 18.8 W/kg

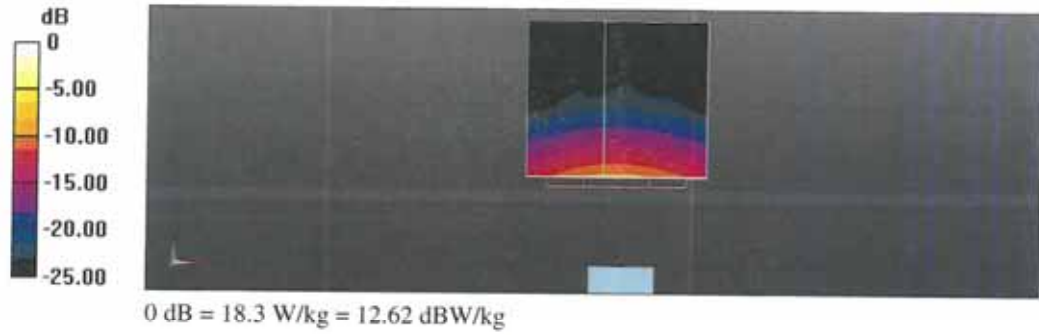
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.73 V/m; Power Drift = 0.01 dB

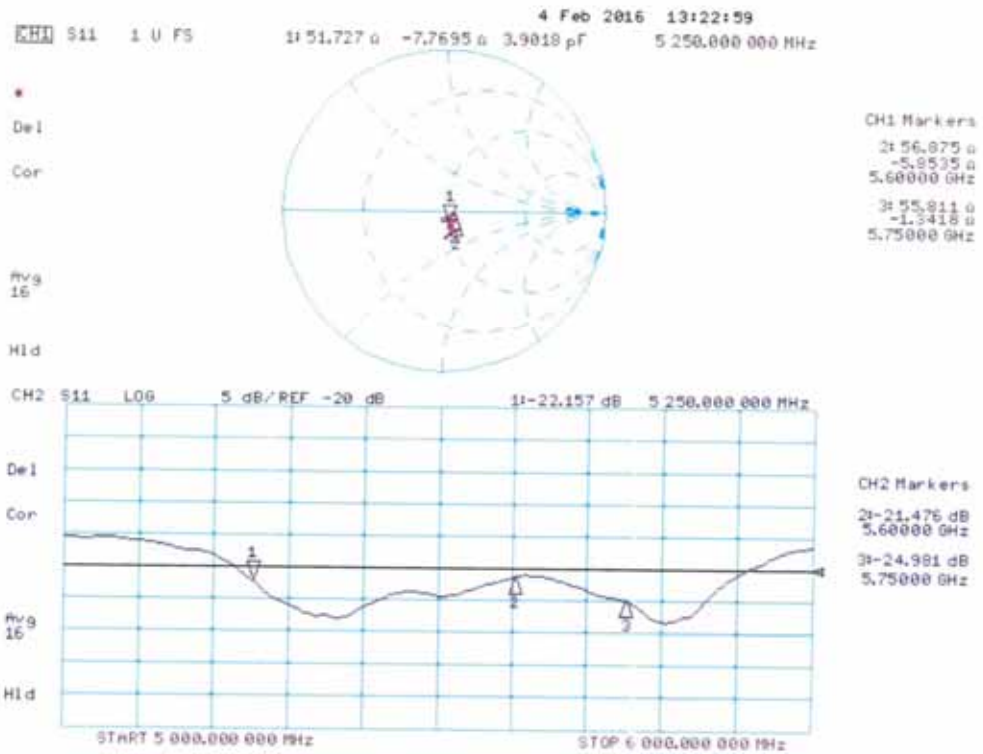
Peak SAR (extrapolated) = 31.4 W/kg

SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.24 W/kg

Maximum value of SAR (measured) = 18.3 W/kg



Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 10.02.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1078

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz
Medium parameters used: $f = 5250$ MHz; $\sigma = 5.46$ S/m; $\epsilon_r = 47.1$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5600$ MHz; $\sigma = 5.94$ S/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5750$ MHz; $\sigma = 6.15$ S/m; $\epsilon_r = 46.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(4.85, 4.85, 4.85); Calibrated: 31.12.2015, ConvF(4.35, 4.35, 4.35); Calibrated: 31.12.2015, ConvF(4.3, 4.3, 4.3); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.04 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 27.8 W/kg

SAR(1 g) = 7.42 W/kg; SAR(10 g) = 2.1 W/kg

Maximum value of SAR (measured) = 17.0 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.76 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 32.7 W/kg

SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.25 W/kg

Maximum value of SAR (measured) = 19.1 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,

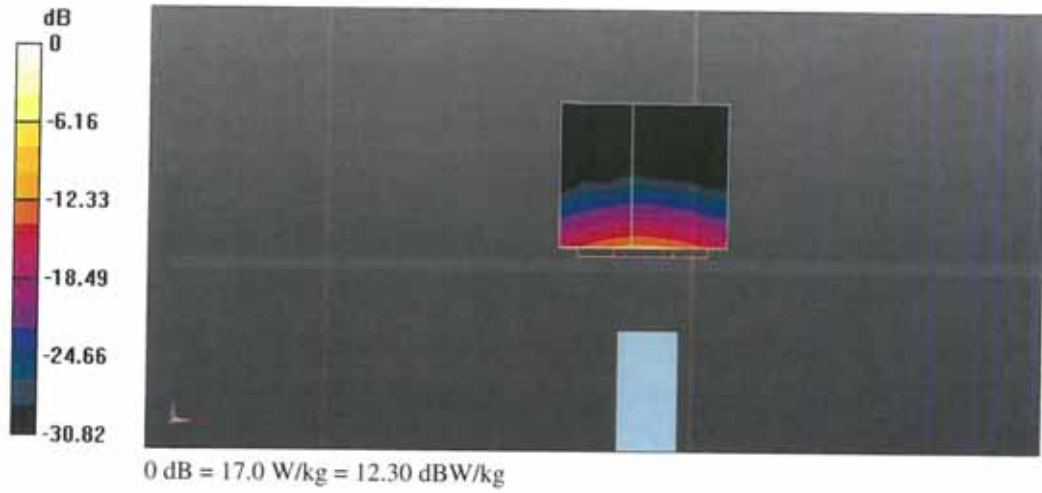
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.46 V/m; Power Drift = 0.04 dB

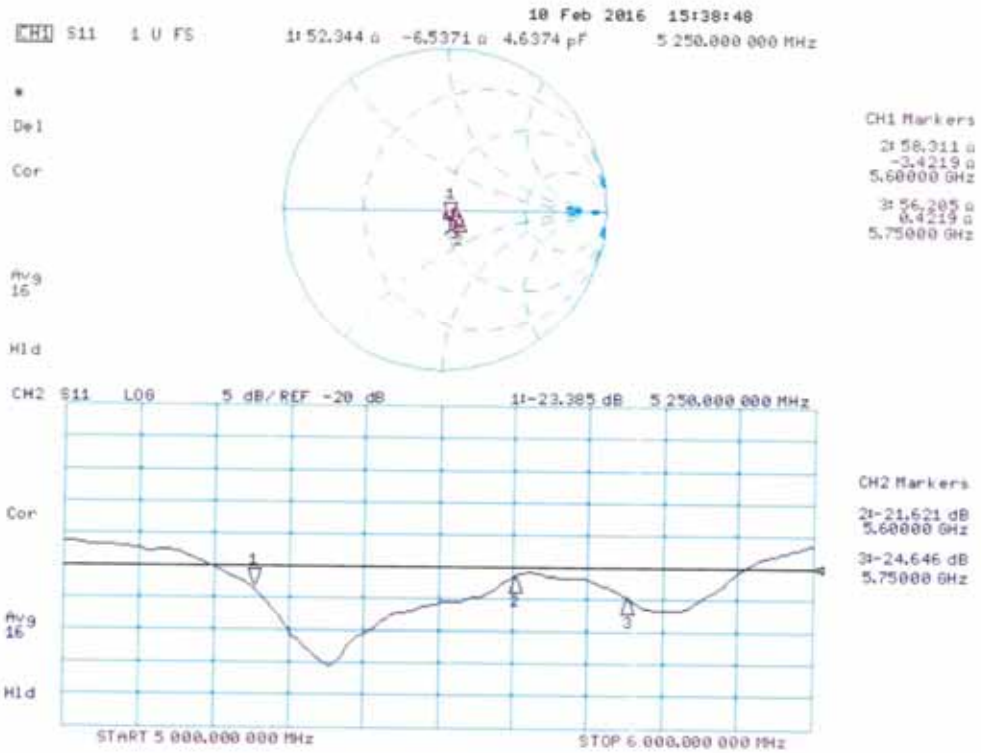
Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 7.58 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 18.3 W/kg



Impedance Measurement Plot for Body TSL



Appendix E. DAE Calibration Data

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **QTK (Auden)**

Certificate No: **DAE4-1220_Feb16**

CALIBRATION CERTIFICATE																							
Object	DAE4 - SD 000 D04 BM - SN: 1220																						
Calibration procedure(s)	QA CAL-06.v29 Calibration procedure for the data acquisition electronics (DAE)																						
Calibration date:	February 09, 2016																						
<p>This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.</p> <p>All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.</p> <p>Calibration Equipment used (M&TE critical for calibration)</p> <table border="1"> <thead> <tr> <th>Primary Standards</th> <th>ID #</th> <th>Cal Date (Certificate No.)</th> <th>Scheduled Calibration</th> </tr> </thead> <tbody> <tr> <td>Keithley Multimeter Type 2001</td> <td>SN: 0910278</td> <td>09-Sep-15 (No:17153)</td> <td>Sep-16</td> </tr> <tr> <th>Secondary Standards</th> <th>ID #</th> <th>Check Date (in house)</th> <th>Scheduled Check</th> </tr> <tr> <td>Auto DAE Calibration Unit</td> <td>SE UWS 053 AA 1001</td> <td>05-Jan-16 (in house check)</td> <td>In house check: Jan-17</td> </tr> <tr> <td>Calibrator Box V2.1</td> <td>SE UMS 006 AA 1002</td> <td>05-Jan-16 (in house check)</td> <td>In house check: Jan-17</td> </tr> </tbody> </table>				Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration	Keithley Multimeter Type 2001	SN: 0910278	09-Sep-15 (No:17153)	Sep-16	Secondary Standards	ID #	Check Date (in house)	Scheduled Check	Auto DAE Calibration Unit	SE UWS 053 AA 1001	05-Jan-16 (in house check)	In house check: Jan-17	Calibrator Box V2.1	SE UMS 006 AA 1002	05-Jan-16 (in house check)	In house check: Jan-17
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration																				
Keithley Multimeter Type 2001	SN: 0910278	09-Sep-15 (No:17153)	Sep-16																				
Secondary Standards	ID #	Check Date (in house)	Scheduled Check																				
Auto DAE Calibration Unit	SE UWS 053 AA 1001	05-Jan-16 (in house check)	In house check: Jan-17																				
Calibrator Box V2.1	SE UMS 006 AA 1002	05-Jan-16 (in house check)	In house check: Jan-17																				
Calibrated by:	Name Eric Hainfeld	Function Technician	Signature 																				
Approved by:	Fin Bomholt	Deputy Technical Manager																					
			Issued: February 9, 2016																				
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.																							

**Calibration Laboratory of
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Accreditation No.: **SCS 0108**

Glossary

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
 - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
 - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
 - *Input Offset Measurement:* Output voltage and statistical results over a large number of zero voltage measurements.
 - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
 - *Power consumption:* Typical value for information. Supply currents in various operating modes.

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1µV , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	405.200 ± 0.02% (k=2)	404.917 ± 0.02% (k=2)	404.148 ± 0.02% (k=2)
Low Range	3.97868 ± 1.50% (k=2)	3.99493 ± 1.50% (k=2)	3.98743 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	175.5 ° ± 1 °
---	---------------

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	199992.49	-1.95	-0.00
Channel X + Input	20002.61	1.47	0.01
Channel X - Input	-19998.19	2.75	-0.01
Channel Y + Input	199990.16	-4.79	-0.00
Channel Y + Input	20000.95	-0.12	-0.00
Channel Y - Input	-20000.64	0.07	-0.00
Channel Z + Input	199992.42	-2.65	-0.00
Channel Z + Input	19999.85	-1.16	-0.01
Channel Z - Input	-20001.51	-0.58	0.00

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2000.70	-0.41	-0.02
Channel X + Input	201.26	-0.07	-0.03
Channel X - Input	-198.71	-0.13	0.07
Channel Y + Input	2000.99	-0.18	-0.01
Channel Y + Input	201.09	-0.36	-0.18
Channel Y - Input	-198.41	0.05	-0.03
Channel Z + Input	2000.72	-0.36	-0.02
Channel Z + Input	200.53	-0.75	-0.37
Channel Z - Input	-199.64	-1.25	0.63

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	9.84	7.96
	- 200	-8.01	-9.87
Channel Y	200	-8.25	-8.80
	- 200	8.16	7.85
Channel Z	200	11.73	11.96
	- 200	-14.95	-14.75

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	2.13	-4.30
Channel Y	200	8.06	-	2.34
Channel Z	200	9.87	6.25	-

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	15882	14889
Channel Y	16011	15892
Channel Z	15707	16206

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	0.45	-1.43	2.29	0.44
Channel Y	0.15	-1.62	1.28	0.42
Channel Z	-0.81	-1.60	0.84	0.43

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9