

ANNEX A Graph Results

GSM850 Head

Date: 2024-08-30

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 835$ MHz; $\sigma = 0.938$ S/m; $\epsilon_r = 42.88$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: GSM 850 (0) Frequency: 836.6 MHz Duty Cycle: 1:8.30042

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.985 W/kg

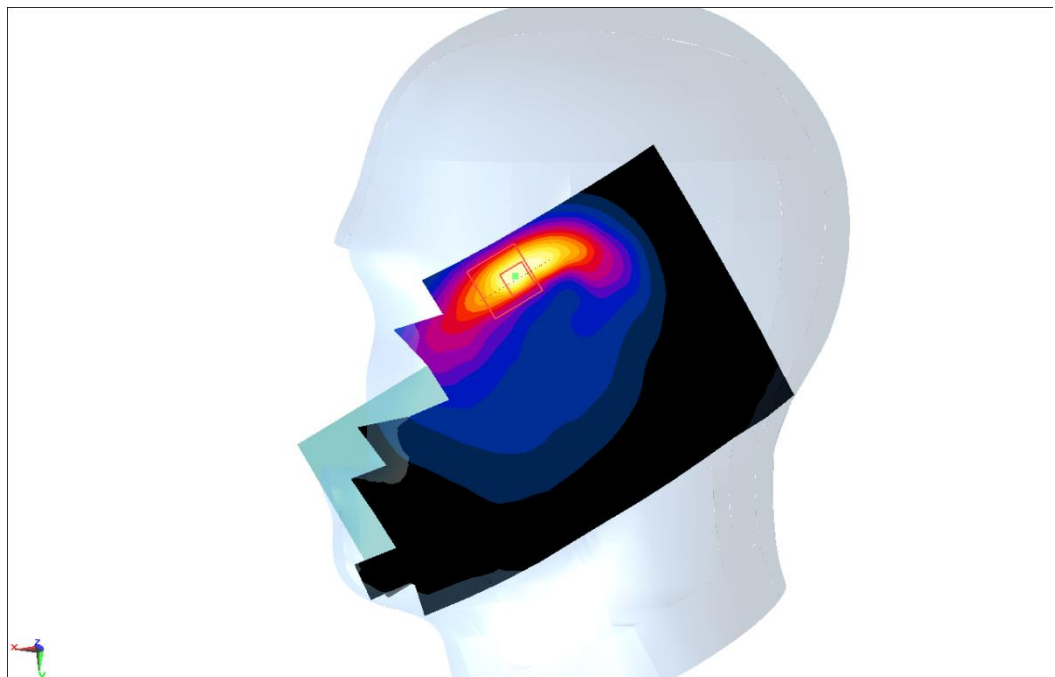
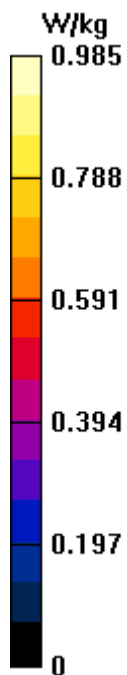
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.270 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.370 W/kg

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



GSM850 Body 10mm

Date: 2024-08-30

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 835\text{ MHz}$; $\sigma = 0.938\text{ S/m}$; $\epsilon_r = 42.88$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: GSM 850 (0) Frequency: 836.6 MHz Duty Cycle: 1:8.30042

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x141x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

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

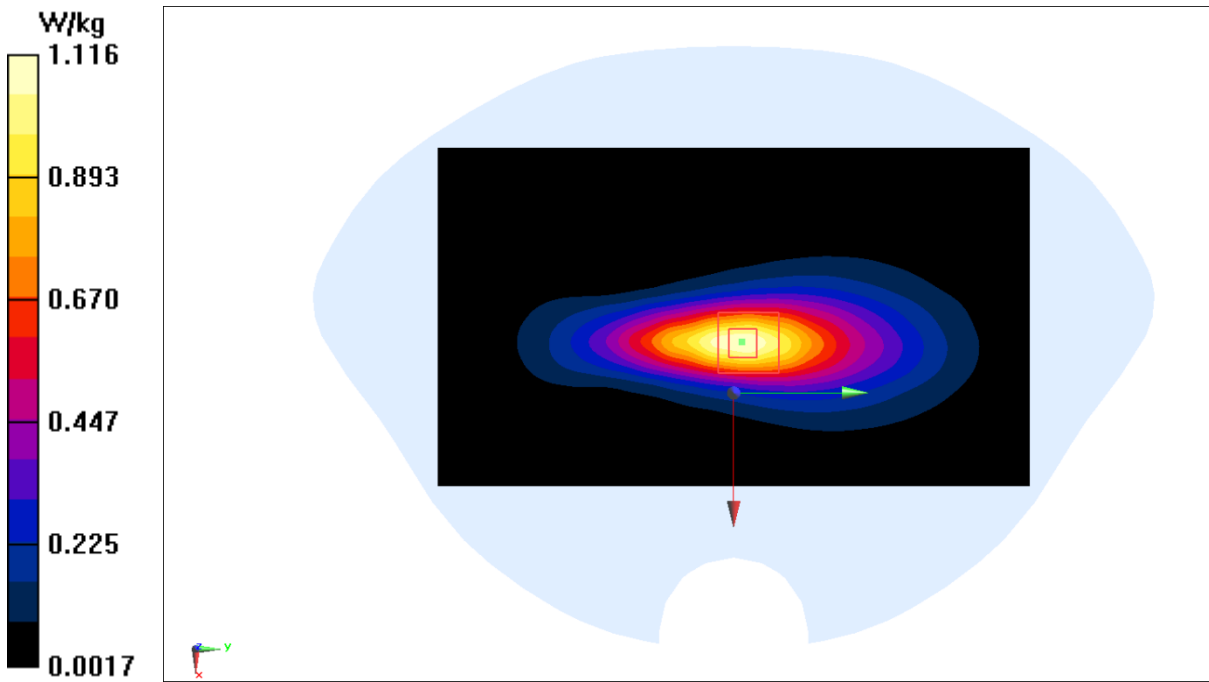
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.60 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.788 W/kg; SAR(10 g) = 0.465 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



GSM1900 Head

Date: 2024-09-06

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.469$ S/m; $\epsilon_r = 41.03$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: GSM 1900 4TX (0) Frequency: 1909.8 MHz Duty Cycle: 1: 1.99986

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0885 W/kg

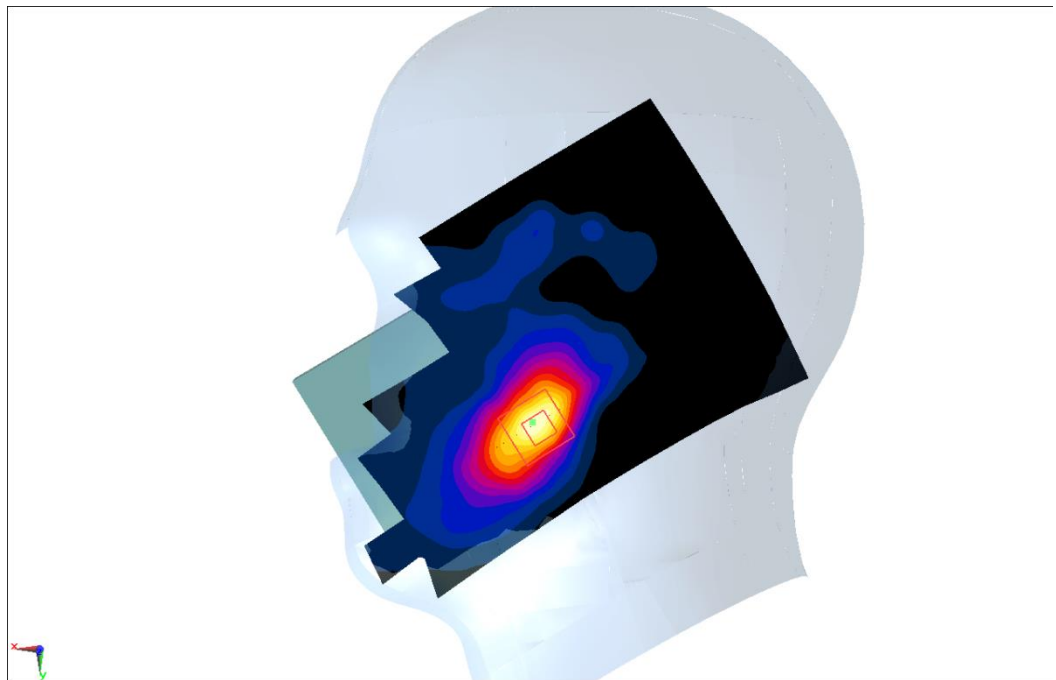
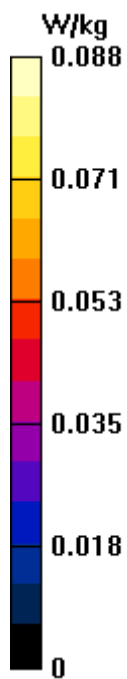
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.001 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0950 W/kg

SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.0777 W/kg

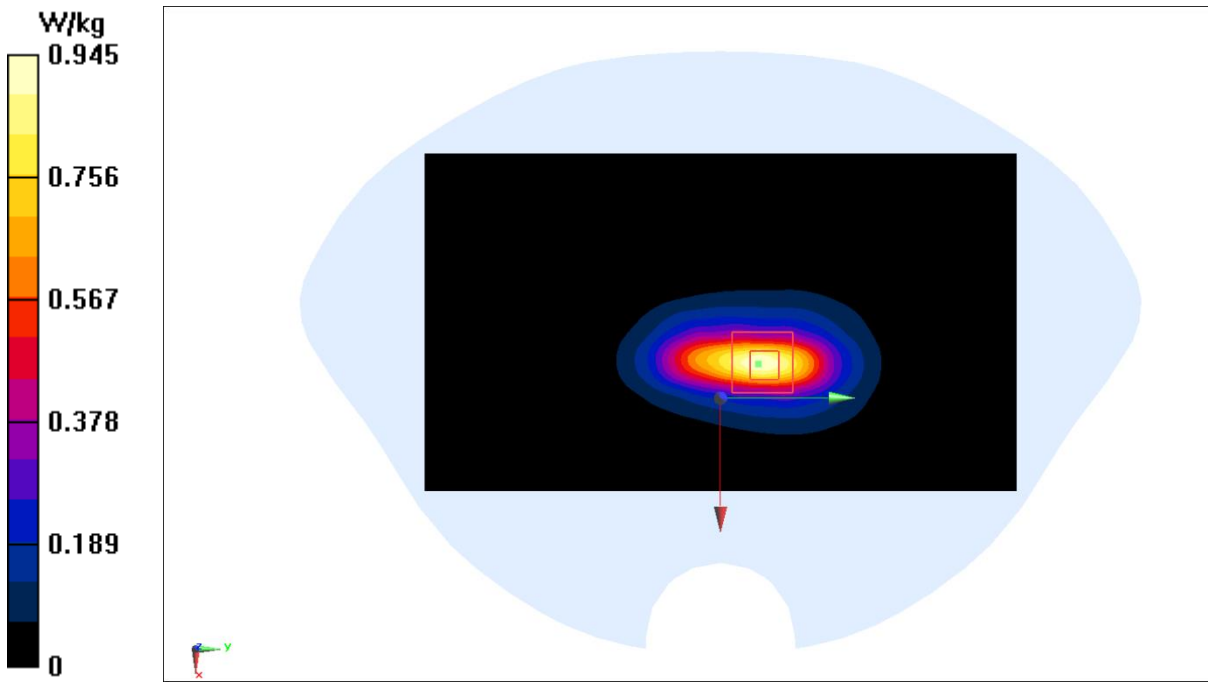


GSM1900 Body 10mm

Date: 2024-09-06
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used: $f = 1910\text{ MHz}$; $\sigma = 1.469\text{ S/m}$; $\epsilon_r = 41.03$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature:23.3°C Liquid Temperature: 22.5°C
Communication System: GSM 1900 4TX (0) Frequency: 1909.8 MHz Duty Cycle: 1: 1.99986
Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x141x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$
Maximum value of SAR (interpolated) = 0.945 W/kg

Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 18.14 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.11 W/kg
 $\text{SAR}(1\text{ g}) = 0.622\text{ W/kg}$; $\text{SAR}(10\text{ g}) = 0.325\text{ W/kg}$
Maximum value of SAR (measured) = 0.941 W/kg

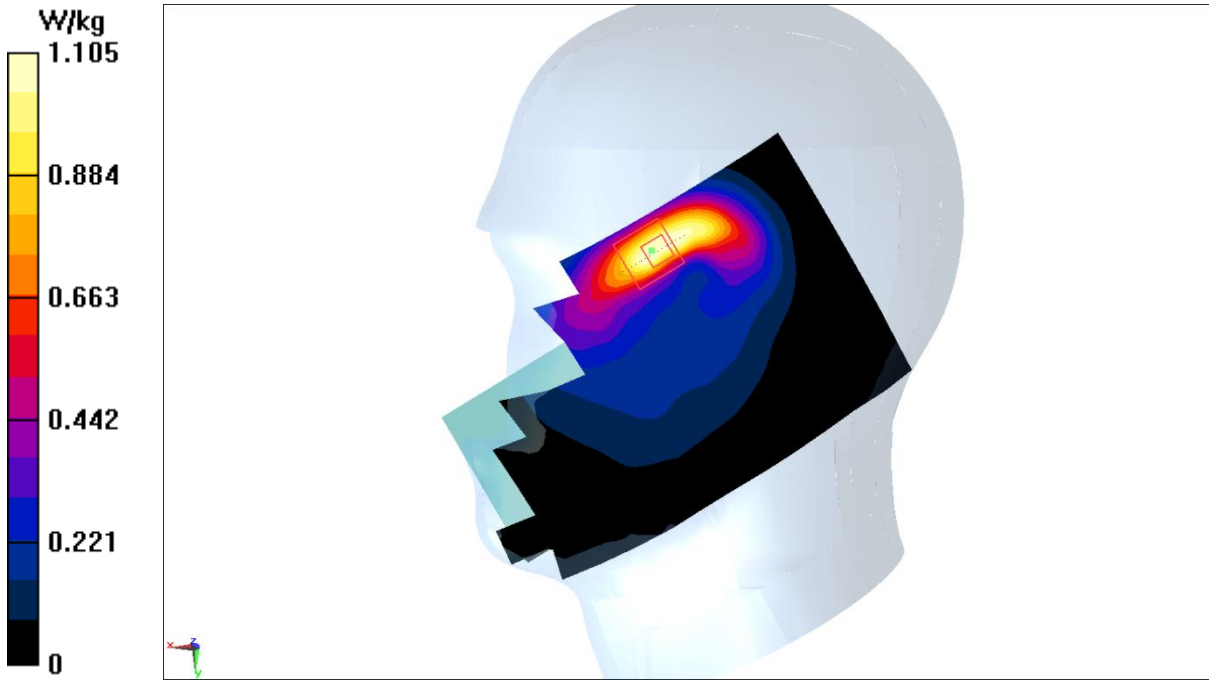


WCDMA850 Head

Date: 2024-08-30
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used: $f = 845\text{ MHz}$; $\sigma = 0.942\text{ S/m}$; $\epsilon_r = 42.84$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C
Communication System: WCDMA850 (B5) (0) Frequency: 846.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x121x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$
Maximum value of SAR (interpolated) = 1.11 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{ mm}$, $dy=8\text{ mm}$, $dz=5\text{ mm}$
Reference Value = 10.53 V/m ; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.37 W/kg
 $\text{SAR}(1\text{ g}) = 0.709\text{ W/kg}$; $\text{SAR}(10\text{ g}) = 0.407\text{ W/kg}$
Maximum value of SAR (measured) = 1.09 W/kg



WCDMA850 Body 10mm

Date: 2024-08-30

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 845\text{ MHz}$; $\sigma = 0.942\text{ S/m}$; $\epsilon_r = 42.84$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA850 (B5) (0) Frequency: 846.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x141x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

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

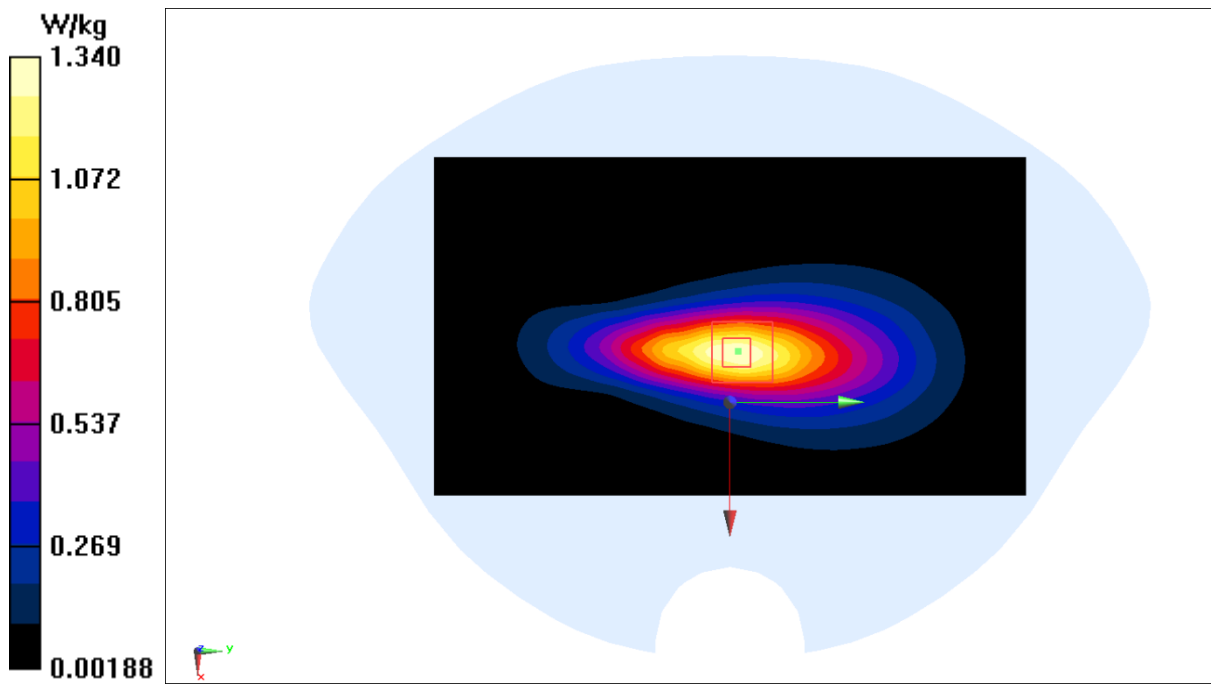
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.42 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.932 W/kg; SAR(10 g) = 0.554 W/kg

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



WCDMA1700 Head

Date: 2024-08-31

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1730\text{ MHz}$; $\sigma = 1.384\text{ S/m}$; $\epsilon_r = 41.8$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA1700 (B4) (0) Frequency: 1732.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25)

Area Scan (71x131x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Maximum value of SAR (interpolated) = 0.438 W/kg

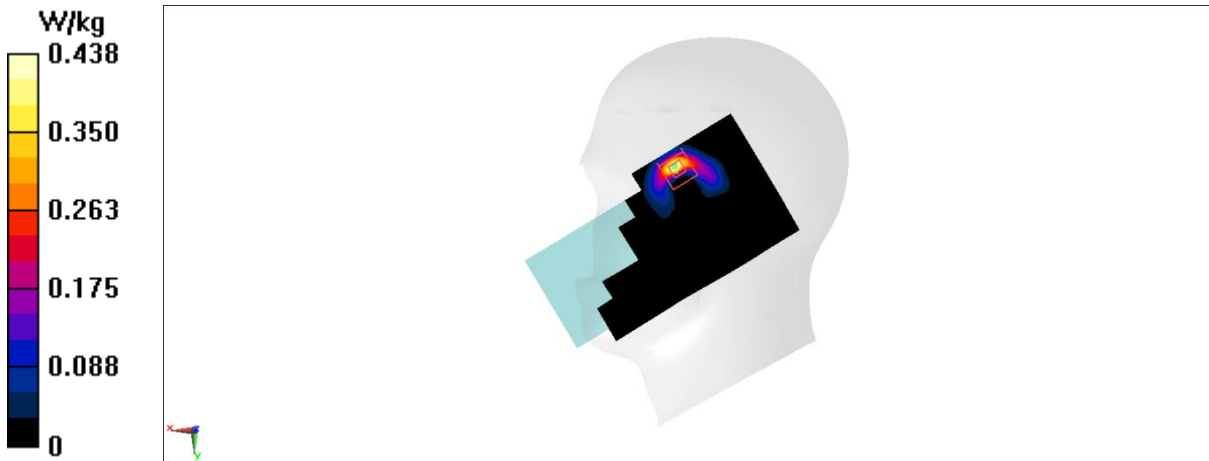
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.880 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.680 W/kg

SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.537 W/kg



WCDMA1700 Body 10mm

Date: 2024-08-31

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1730\text{ MHz}$; $\sigma = 1.384\text{ S/m}$; $\epsilon_r = 41.8$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA1700 (B4) (0) Frequency: 1732.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25)

Area Scan (81x141x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Maximum value of SAR (interpolated) = 1.10 W/kg

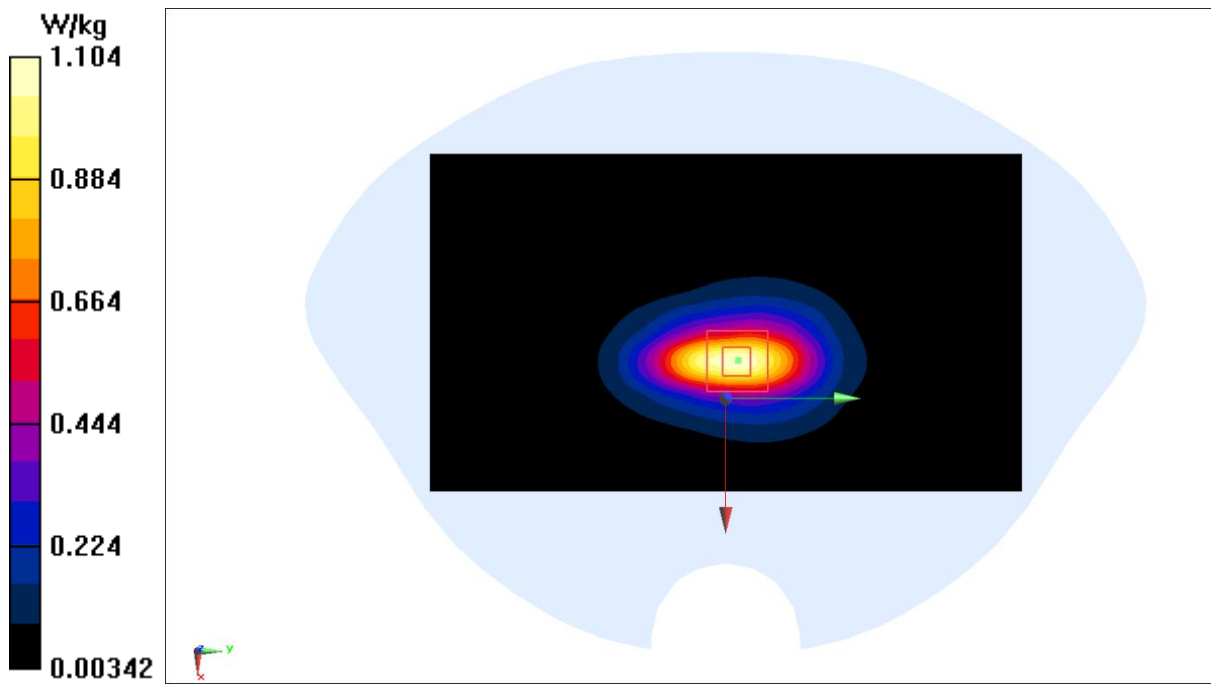
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.94 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.727 W/kg; SAR(10 g) = 0.403 W/kg

Maximum value of SAR (measured) = 1.07 W/kg

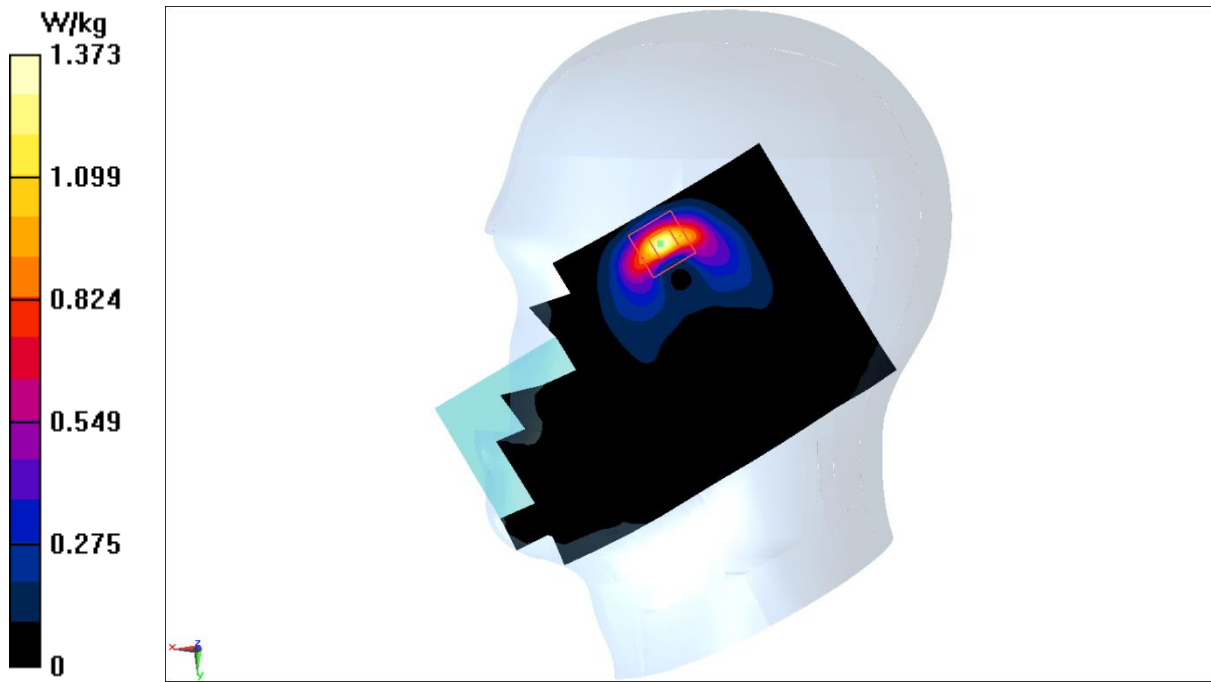


WCDMA1900 Head

Date: 2024-09-06
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used: $f = 1850\text{ MHz}$; $\sigma = 1.426\text{ S/m}$; $\epsilon_r = 41.12$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature:23.3°C Liquid Temperature: 22.5°C
Communication System: WCDMA1900 (B2) (0) Frequency: 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x121x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$
Maximum value of SAR (interpolated) = 1.37 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 8.126 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.64 W/kg
 $\text{SAR}(1\text{ g}) = 0.814\text{ W/kg}$; $\text{SAR}(10\text{ g}) = 0.368\text{ W/kg}$
Maximum value of SAR (measured) = 1.41 W/kg



WCDMA1900 Body 10mm

Date: 2024-09-06

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.448$ S/m; $\epsilon_r = 41.07$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: WCDMA1900 (B2) (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.811 W/kg

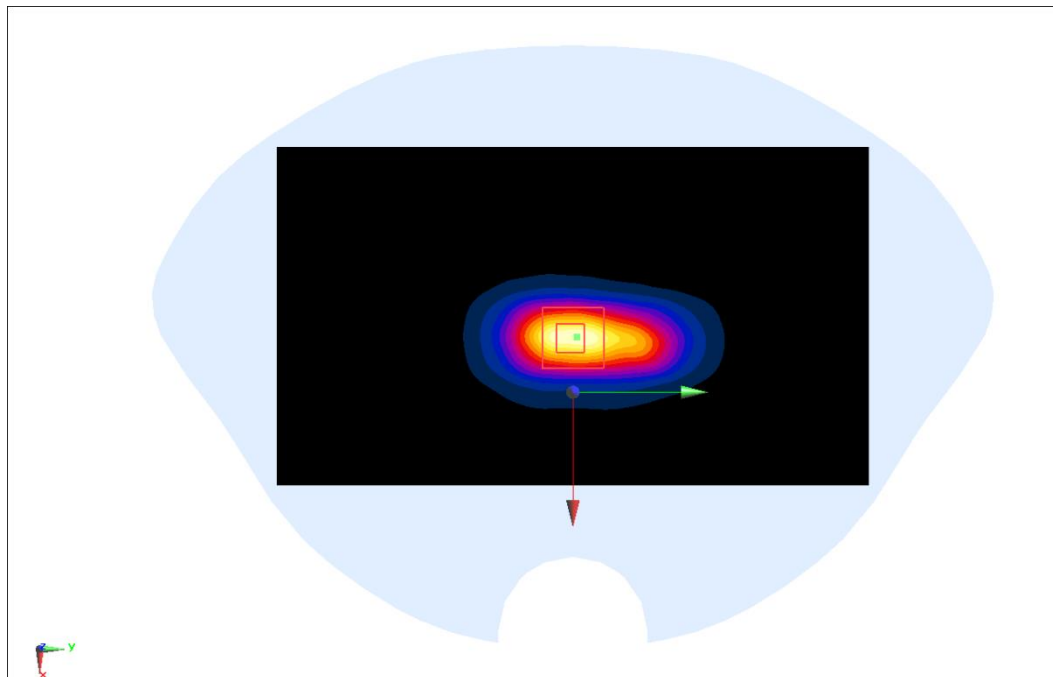
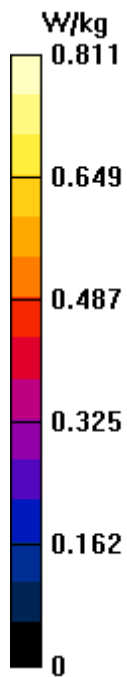
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 20.72 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.591 W/kg; SAR(10 g) = 0.305 W/kg

Maximum value of SAR (measured) = 0.894 W/kg



LTE Band7 Head

Date: 2024-09-14

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2535\text{ MHz}$; $\sigma = 1.9\text{ S/m}$; $\epsilon_r = 40.15$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band7 (0) Frequency: 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (91x161x1): Interpolated grid: $dx=1.200\text{ mm}$, $dy=1.200\text{ mm}$

Maximum value of SAR (interpolated) = 0.917 W/kg

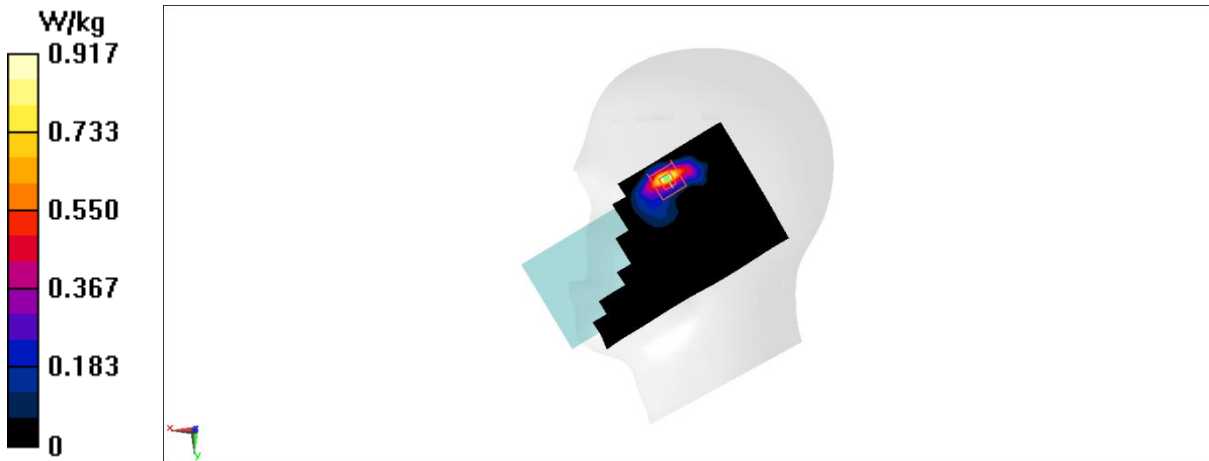
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.9170 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.286 W/kg

Maximum value of SAR (measured) = 1.40 W/kg



LTE Band7 Body 10mm

Date: 2024-09-14

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.918$ S/m; $\epsilon_r = 40.13$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band7 (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (91x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

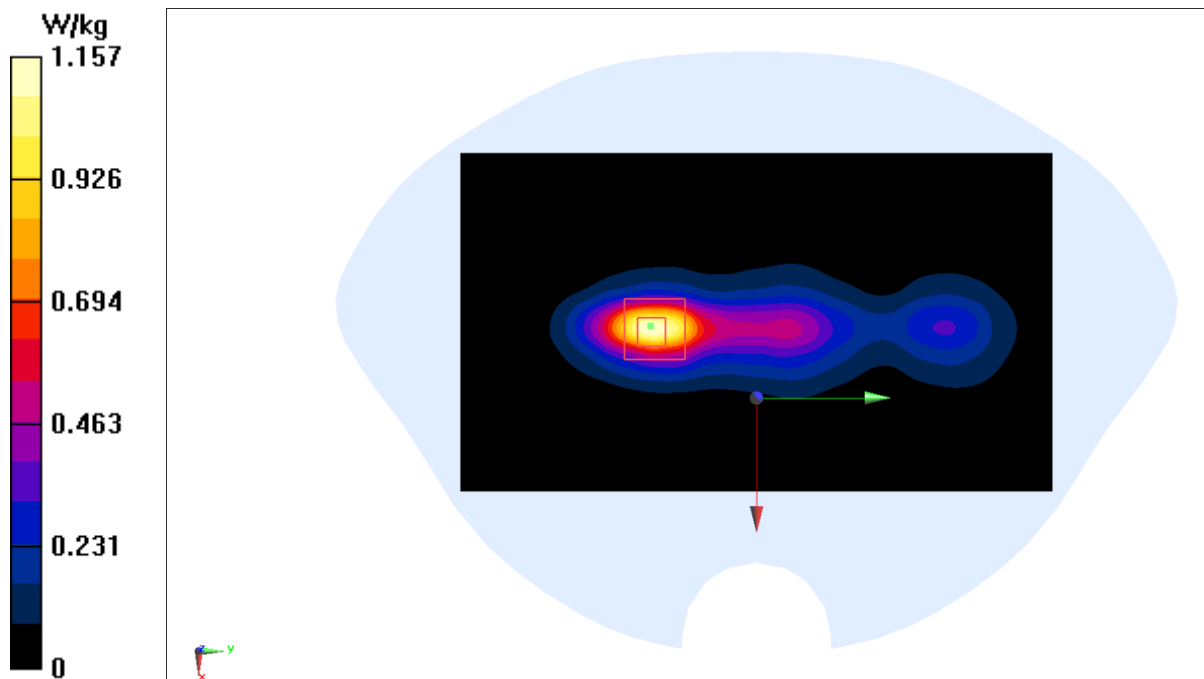
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.75 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.333 W/kg

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



LTE Band12 Head

Date: 2024-09-01

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 710$ MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 43.2$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band12 (0) Frequency: 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

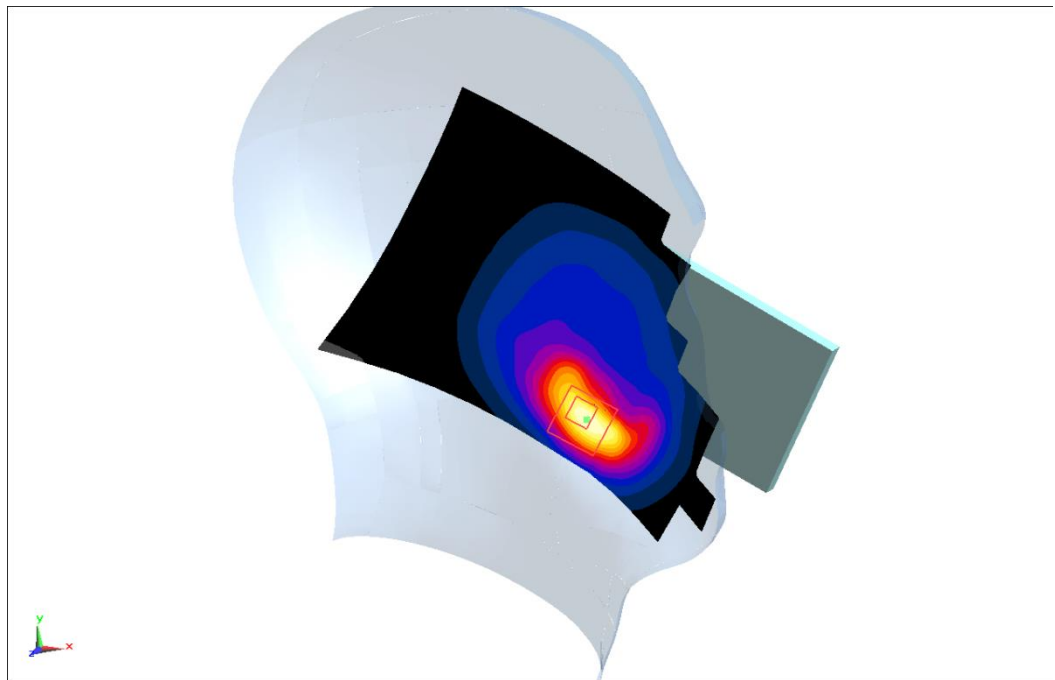
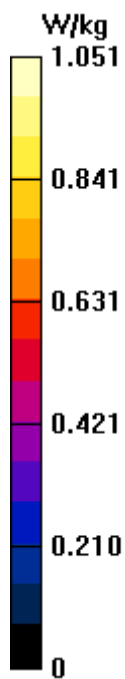
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.197 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 0.865 W/kg; SAR(10 g) = 0.470 W/kg

Maximum value of SAR (measured) = 1.24 W/kg



LTE Band12 Body 10mm

Date: 2024-09-01

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 705$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 43.22$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band12 (0) Frequency: 704 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

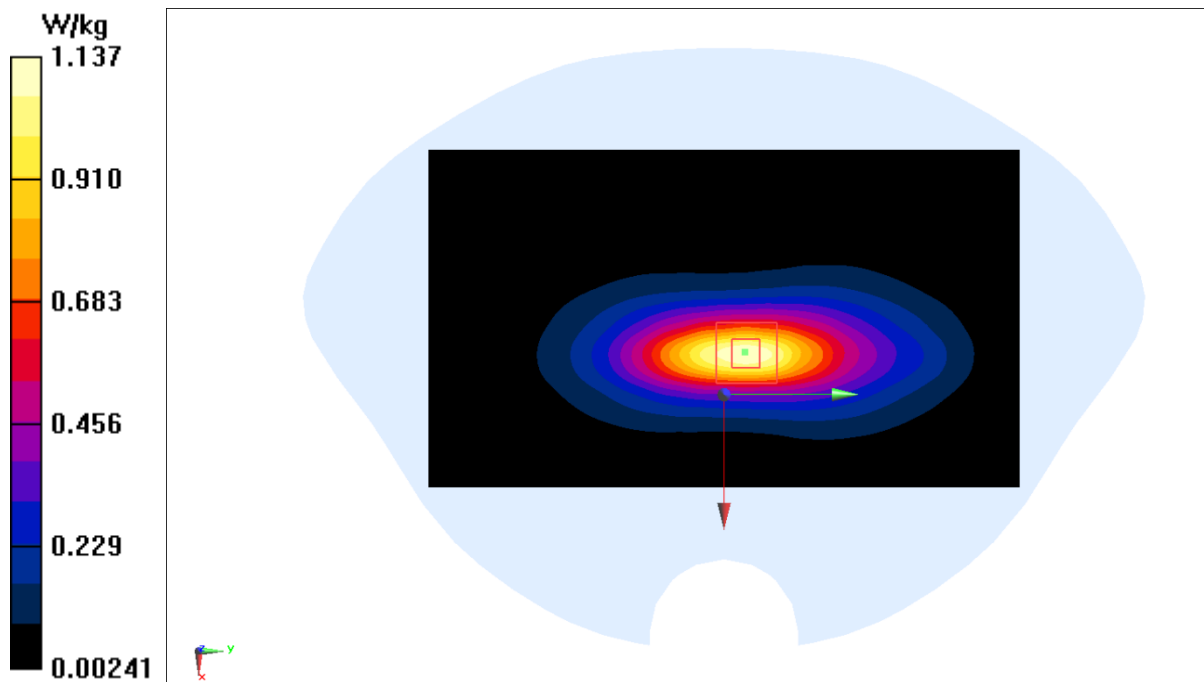
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 30.67 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.476 W/kg

Maximum value of SAR (measured) = 1.17 W/kg

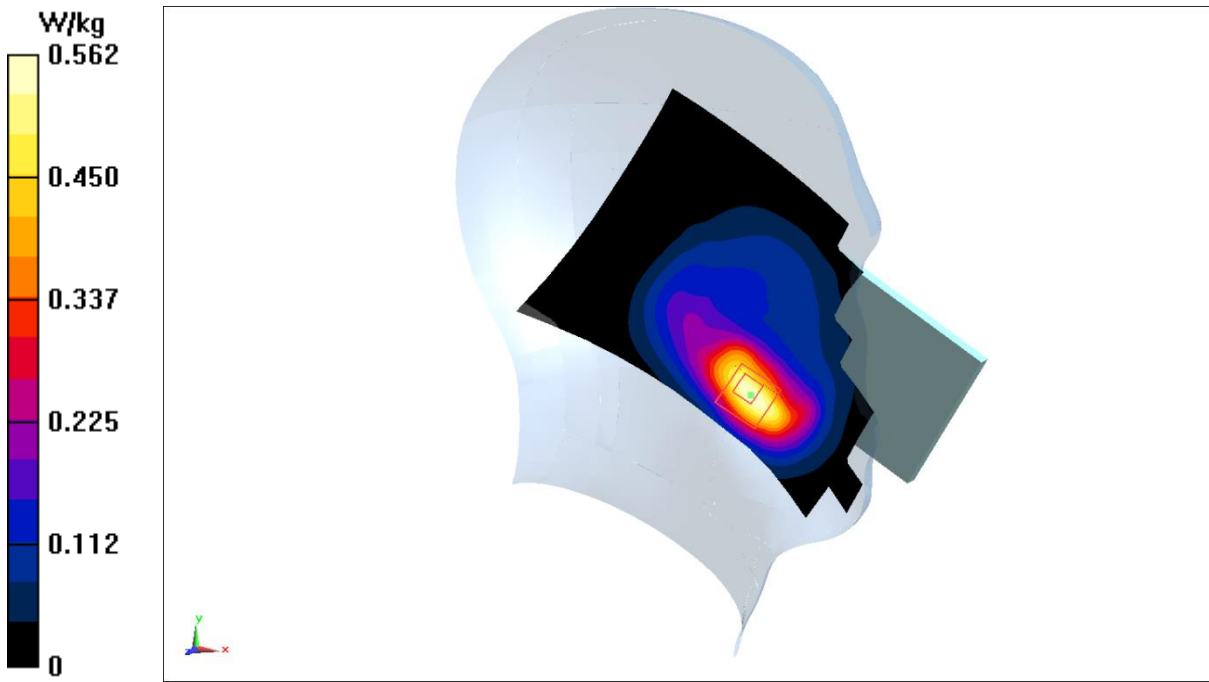


LTE Band13 Head

Date: 2024-09-01
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used: $f = 780\text{ MHz}$; $\sigma = 0.938\text{ S/m}$; $\epsilon_r = 43.02$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature:23.3°C Liquid Temperature: 22.5°C
Communication System: LTE Band13 (0) Frequency: 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x121x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$
Maximum value of SAR (interpolated) = 0.562 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.183 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.07 W/kg
 $\text{SAR}(1\text{ g}) = 0.498\text{ W/kg}$; $\text{SAR}(10\text{ g}) = 0.273\text{ W/kg}$
Maximum value of SAR (measured) = 0.676 W/kg



LTE Band13 Body 10mm

Date: 2024-09-01

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 780\text{ MHz}$; $\sigma = 0.938\text{ S/m}$; $\epsilon_r = 43.02$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band13 (0) Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x141x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Maximum value of SAR (interpolated) = 1.04 W/kg

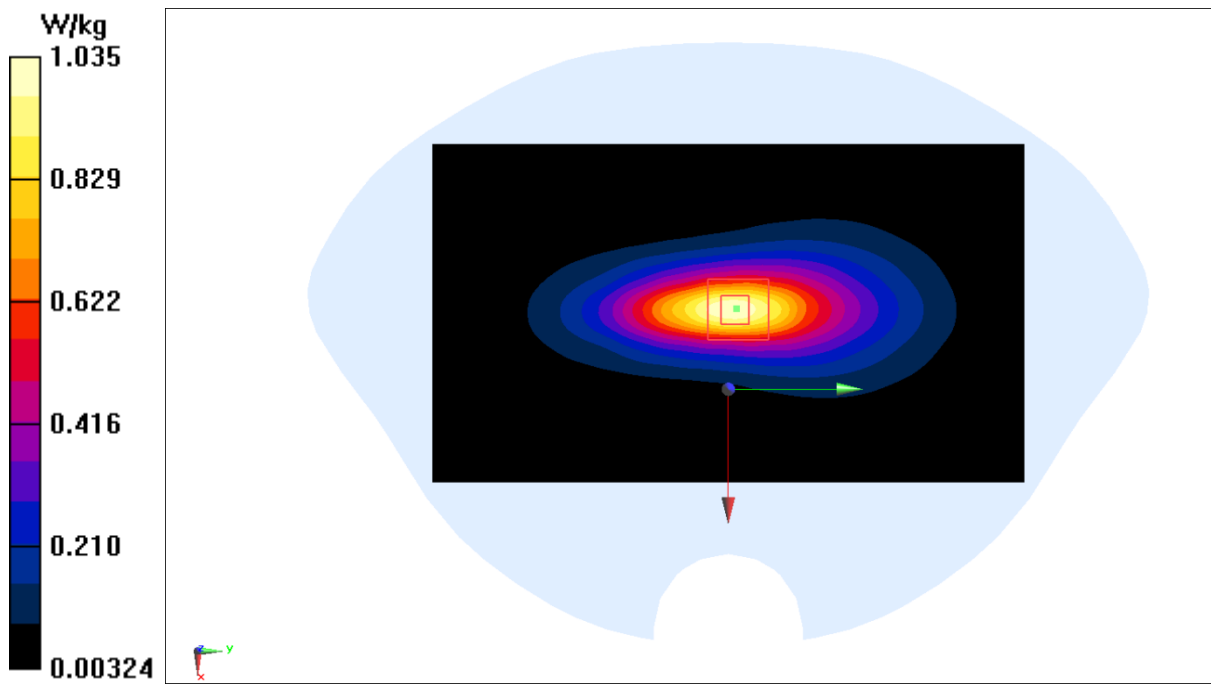
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.62 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.410 W/kg

Maximum value of SAR (measured) = 1.02 W/kg

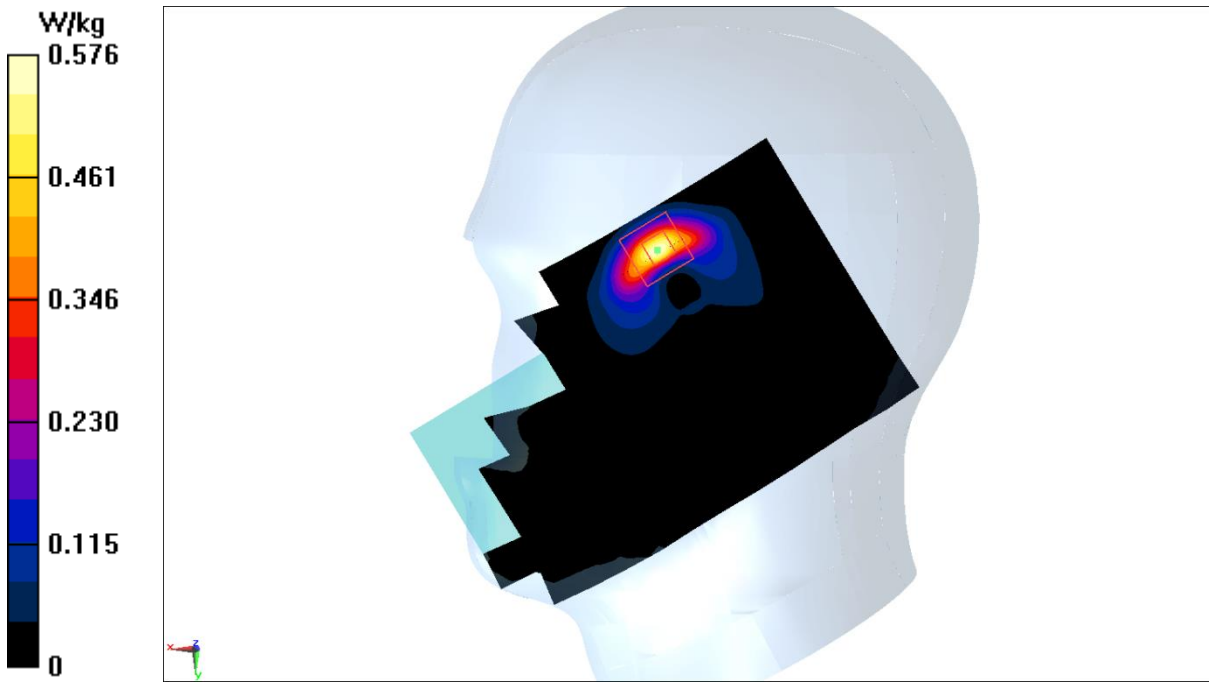


LTE Band25 Head

Date: 2024-09-07
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used: $f = 1905 \text{ MHz}$; $\sigma = 1.481 \text{ S/m}$; $\epsilon_r = 40.57$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C
Communication System: LTE Band25 (0) Frequency: 1905 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.576 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.864 V/m ; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.669 W/kg
 $\text{SAR}(1 \text{ g}) = 0.319 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 0.141 \text{ W/kg}$
Maximum value of SAR (measured) = 0.575 W/kg



LTE Band25 Body 10mm

Date: 2024-09-07

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1905$ MHz; $\sigma = 1.481$ S/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band25 (0) Frequency: 1905 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.772 W/kg

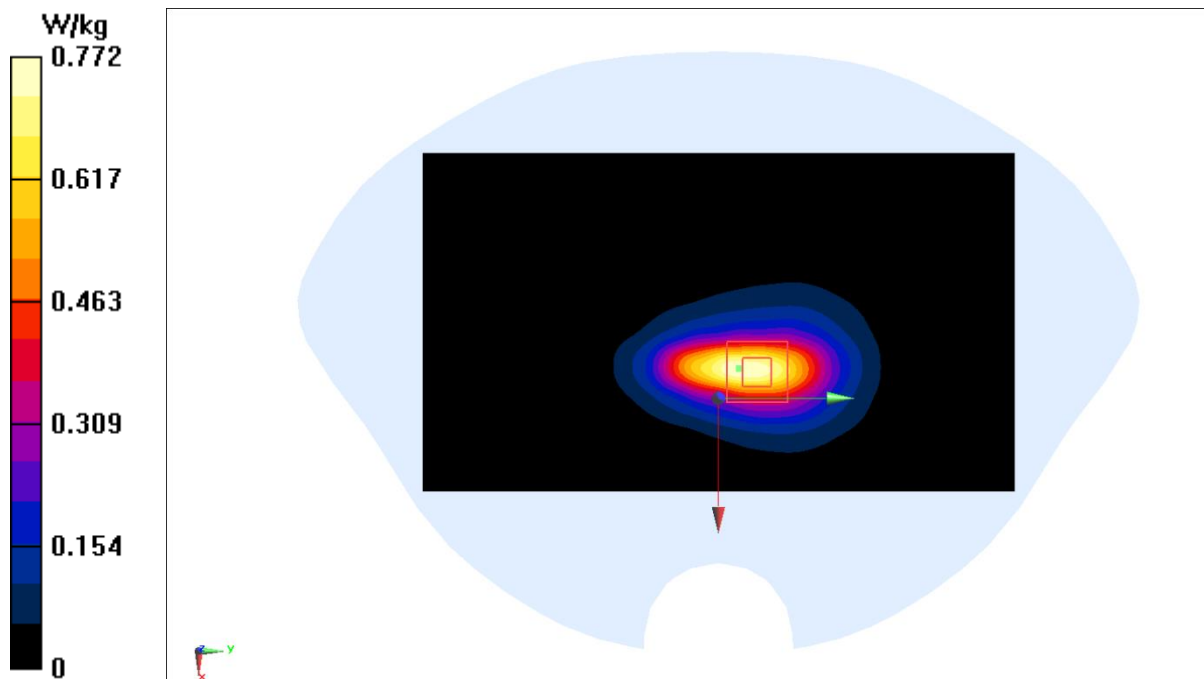
Zoom Scan (6x8x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.82 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.921 W/kg

SAR(1 g) = 0.526 W/kg; SAR(10 g) = 0.284 W/kg

Maximum value of SAR (measured) = 0.755 W/kg



LTE Band26 Head

Date: 9/14/2024

Electronics: DAE4 Sn549

Medium: H700-6000M

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.926$ S/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band26 15M (0) Frequency: 831.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.85, 9.85, 9.85)

Area Scan (91x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.748 W/kg

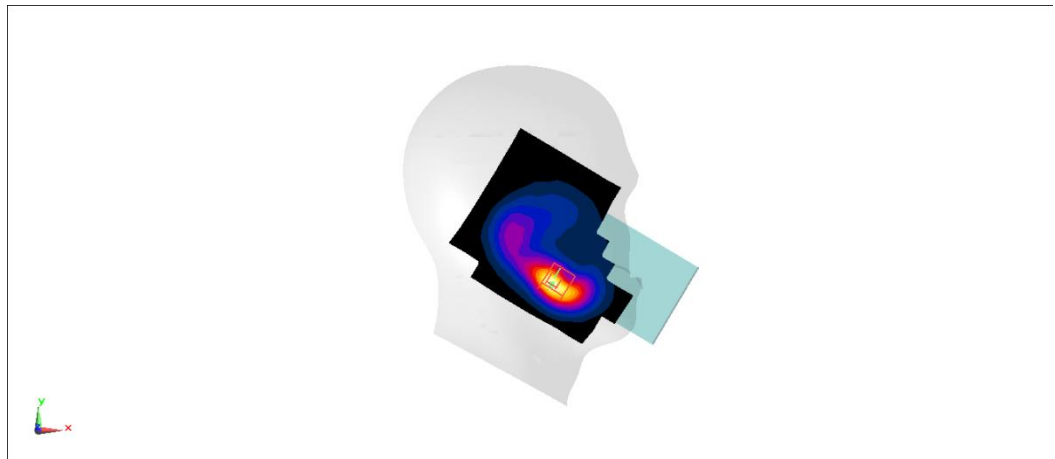
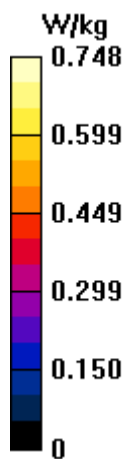
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.93 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.425 W/kg

Maximum value of SAR (measured) = 1.24 W/kg



LTE Band26 Body 10mm

Date: 9/14/2024

Electronics: DAE4 Sn549

Medium: H700-6000M

Medium parameters used (interpolated): $f = 841.5$ MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 42.47$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band26 15M (0) Frequency: 841.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.85, 9.85, 9.85)

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.988 W/kg

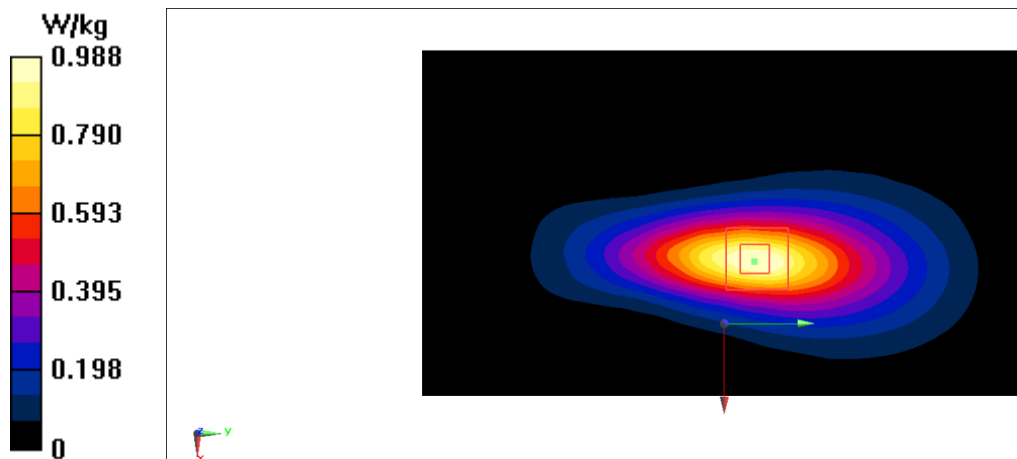
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 30.66 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.557 W/kg

Maximum value of SAR (measured) = 1.46 W/kg



LTE Band38 Head

Date: 2024-09-05

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.965$ S/m; $\epsilon_r = 40.48$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band38 (0) Frequency: 2595 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (101x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.15 W/kg

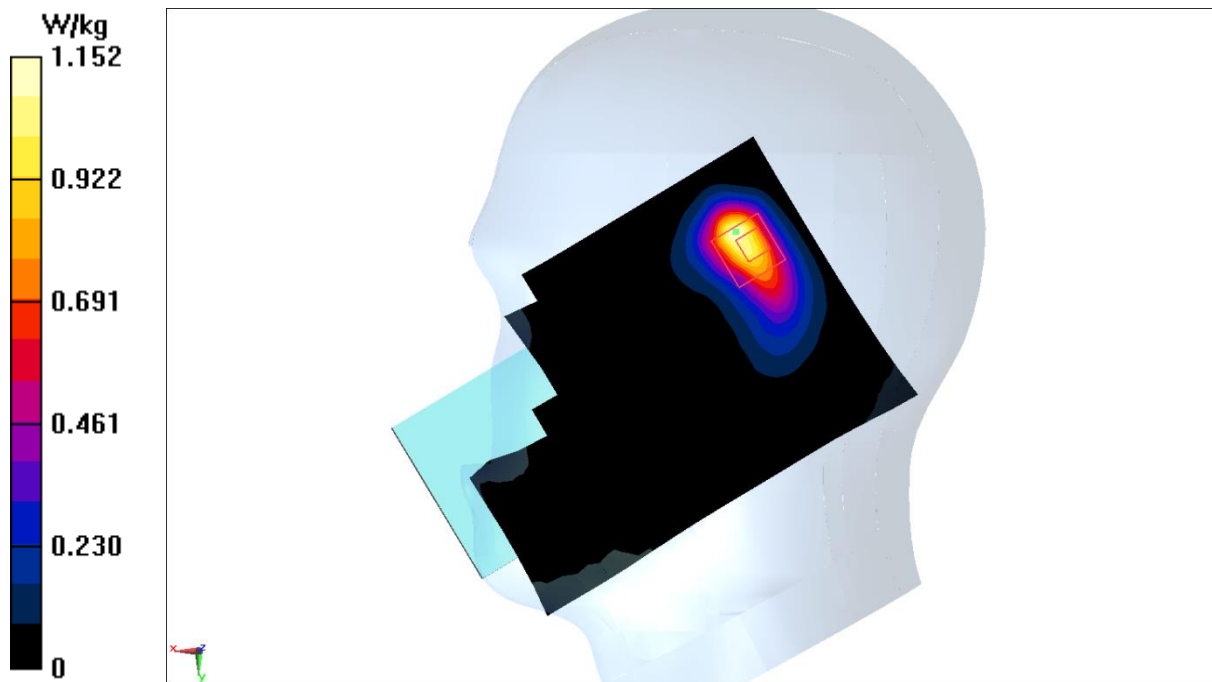
Zoom Scan (9x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 9.523 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.637 W/kg; SAR(10 g) = 0.308 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



LTE Band38 Body 10mm

Date: 2024-09-05

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.965$ S/m; $\epsilon_r = 40.48$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band38 (0) Frequency: 2595 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (101x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

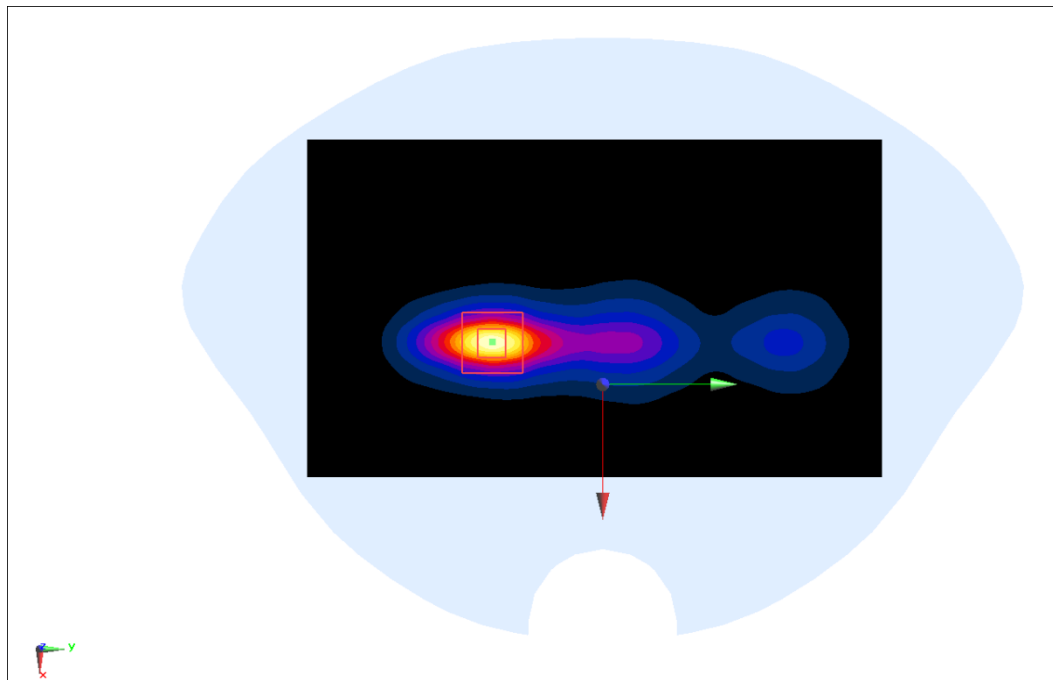
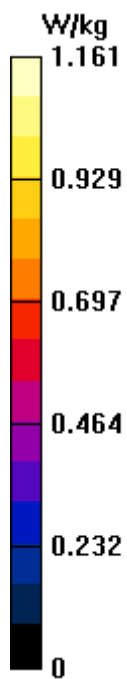
Zoom Scan (9x10x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.97 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.313 W/kg

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

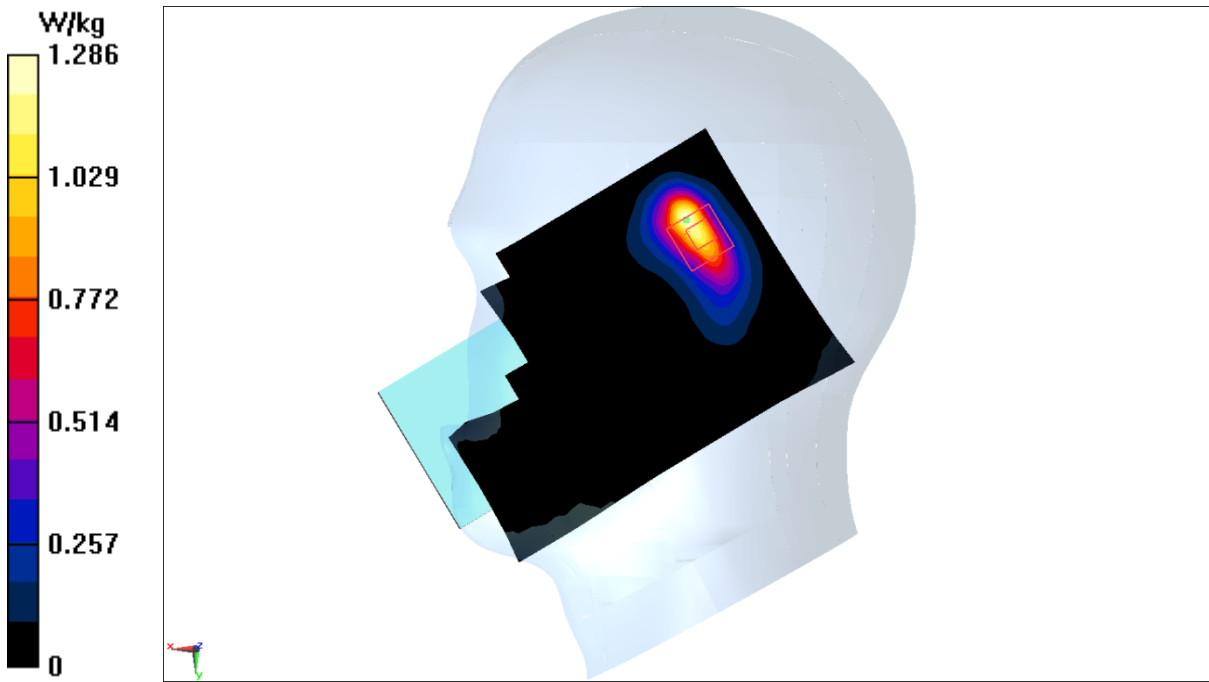


LTE Band41 PC2 Head

Date: 2024-09-10
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used: $f = 2595 \text{ MHz}$; $\sigma = 1.928 \text{ S/m}$; $\epsilon_r = 39.7$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C
Communication System: LTE Band41 (0) Frequency: 2593 MHz Duty Cycle: 1:2.30994
Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (101x151x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$
Maximum value of SAR (interpolated) = 1.29 W/kg

Zoom Scan (9x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.14 V/m ; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.41 W/kg
 $\text{SAR}(1 \text{ g}) = 0.640 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 0.310 \text{ W/kg}$
Maximum value of SAR (measured) = 1.10 W/kg



LTE Band41 PC2 Body 10mm

Date: 2024-09-10

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.928$ S/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band41 (0) Frequency: 2593 MHz Duty Cycle: 1:2.30994

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (101x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

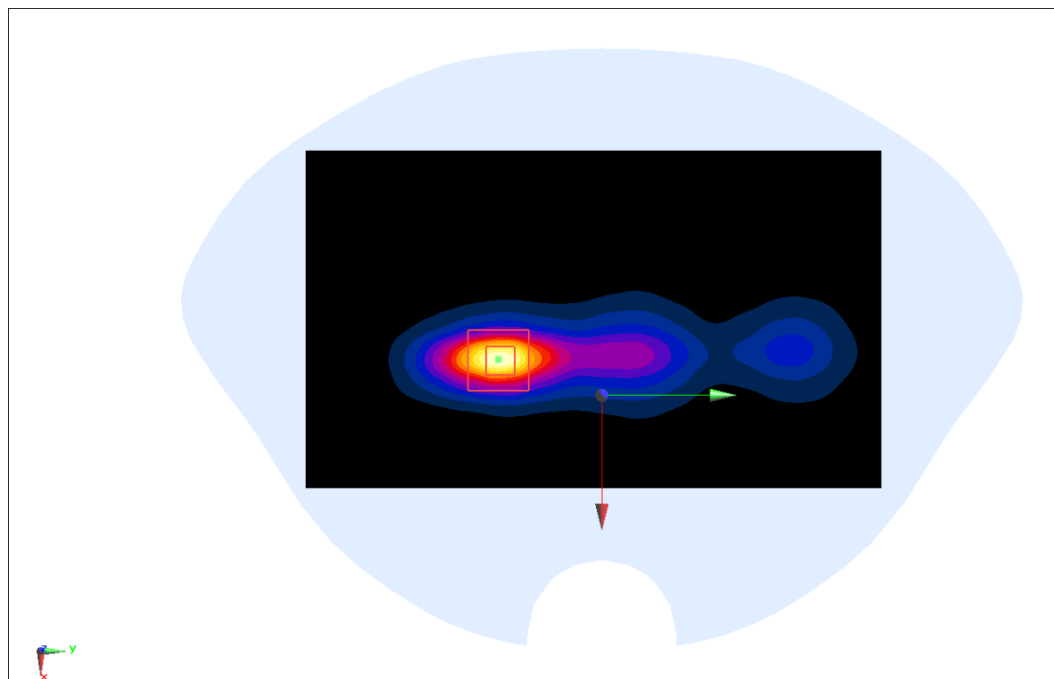
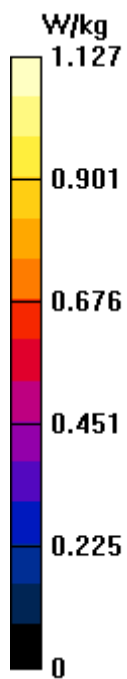
Zoom Scan (9x10x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.75 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.305 W/kg

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



LTE Band41 PC3 Head

Date: 2024-09-10

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.928$ S/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band41 (0) Frequency: 2593 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (101x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

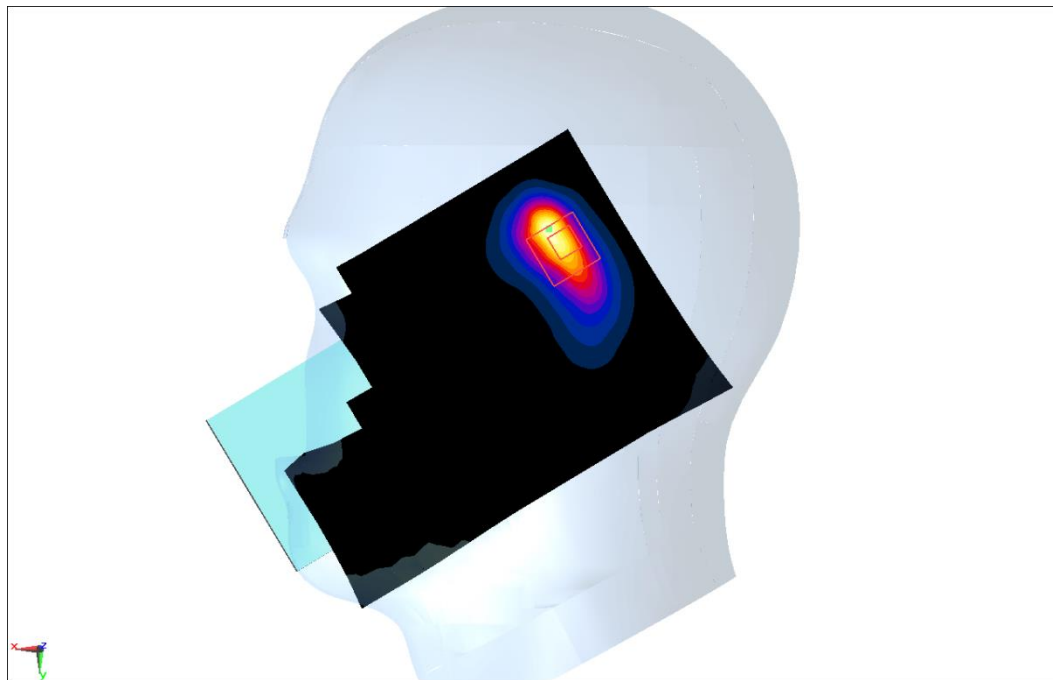
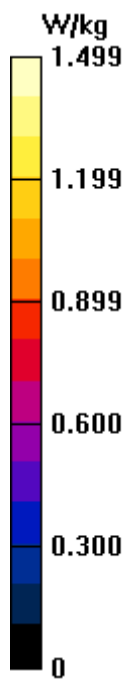
Zoom Scan (9x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.74 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 1.29 W/kg



LTE Band41 PC3 Body 10mm

Date: 2024-09-10

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.928$ S/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band41 (0) Frequency: 2593 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (101x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

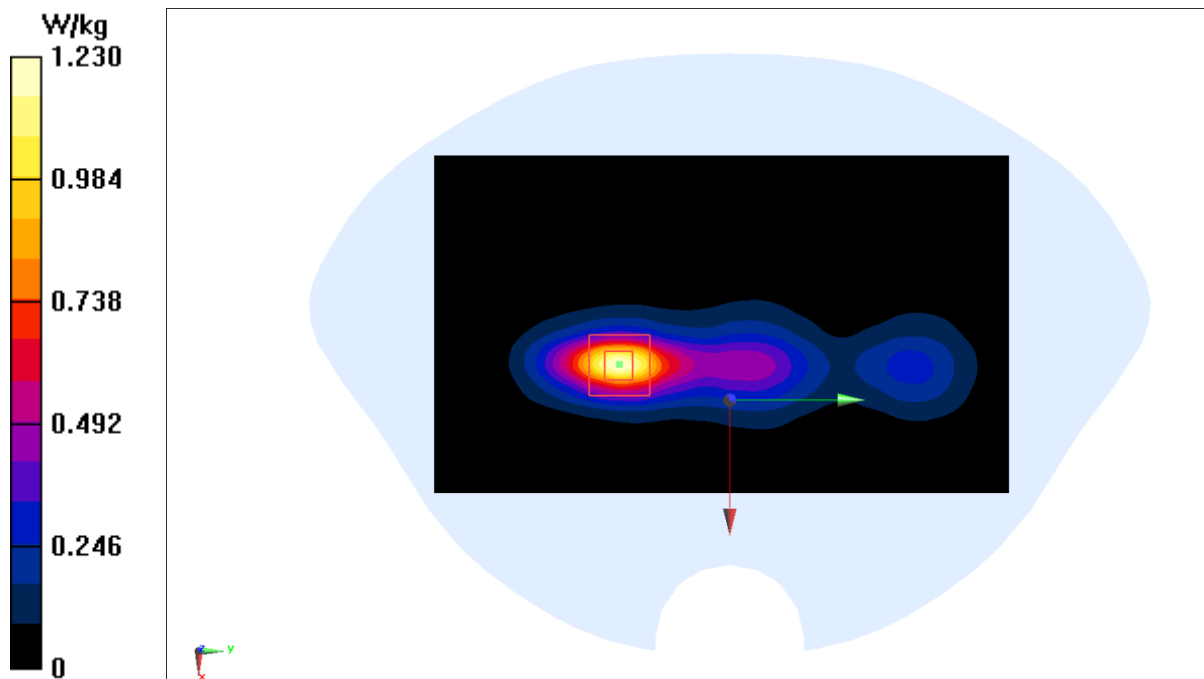
Zoom Scan (9x10x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 12.04 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.733 W/kg; SAR(10 g) = 0.330 W/kg

Maximum value of SAR (measured) = 1.18 W/kg

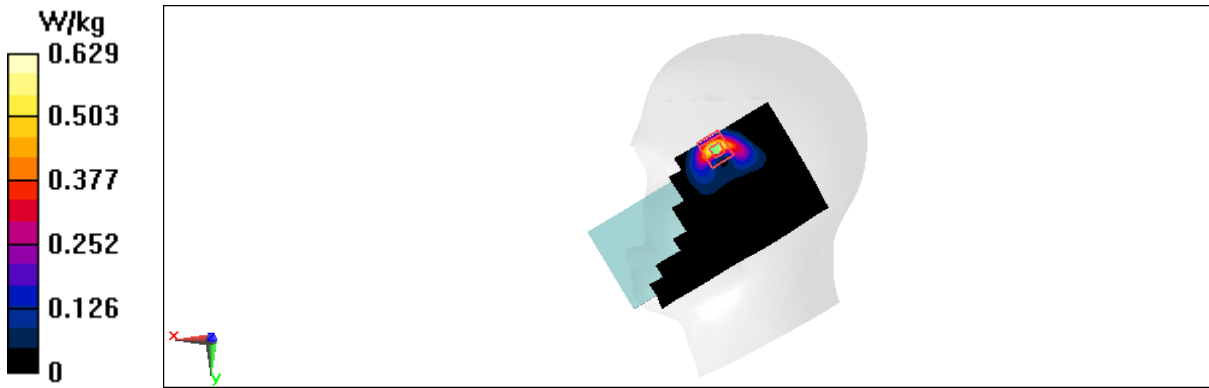


LTE Band66 Head

Date: 2024-08-31
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.39 \text{ S/m}$; $\epsilon_r = 41.78$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C
Communication System: LTE Band66 (0) Frequency: 1745 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25)

Area Scan (91x161x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$
Maximum value of SAR (interpolated) = 0.629 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.239 V/m ; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.25 W/kg
 $\text{SAR}(1 \text{ g}) = 0.523 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 0.225 \text{ W/kg}$
Maximum value of SAR (measured) = 0.846 W/kg



LTE Band66 Body 10mm

Date: 2024-08-31

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 41.78$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: LTE Band66 (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25)

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

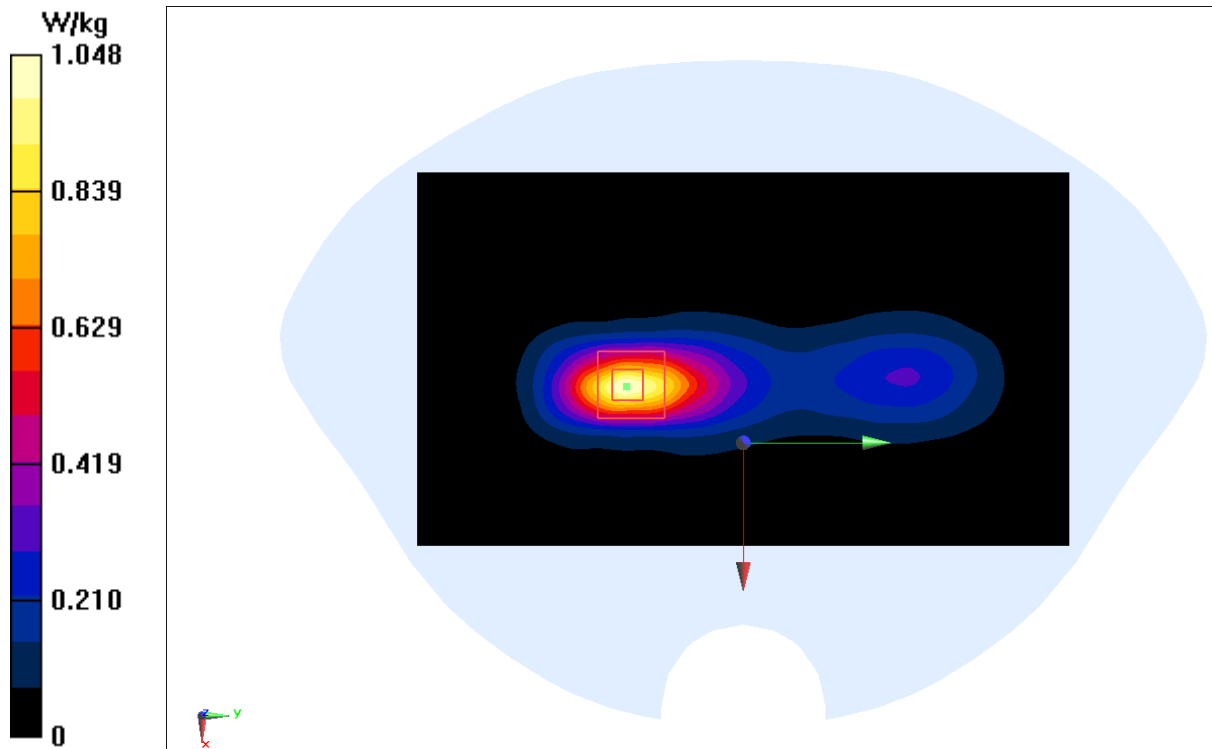
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.73 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.370 W/kg

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



N2 Head

Date: 2024-09-04

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 40.24$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N2 15kHz (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.580 W/kg

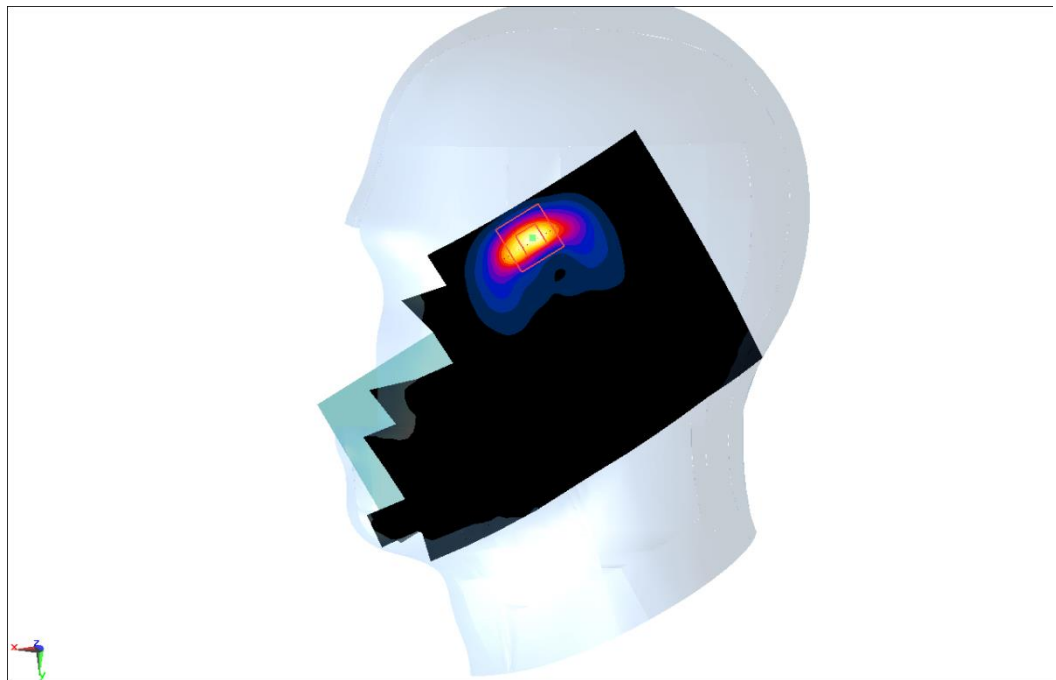
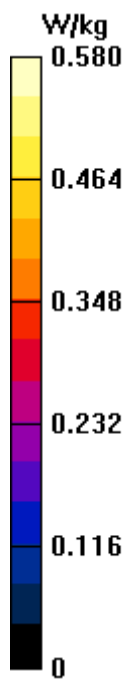
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.559 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.740 W/kg

SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 0.633 W/kg



N2 Body 10mm

Date: 2024-09-04

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 40.24$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N2 15kHz (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.668 W/kg

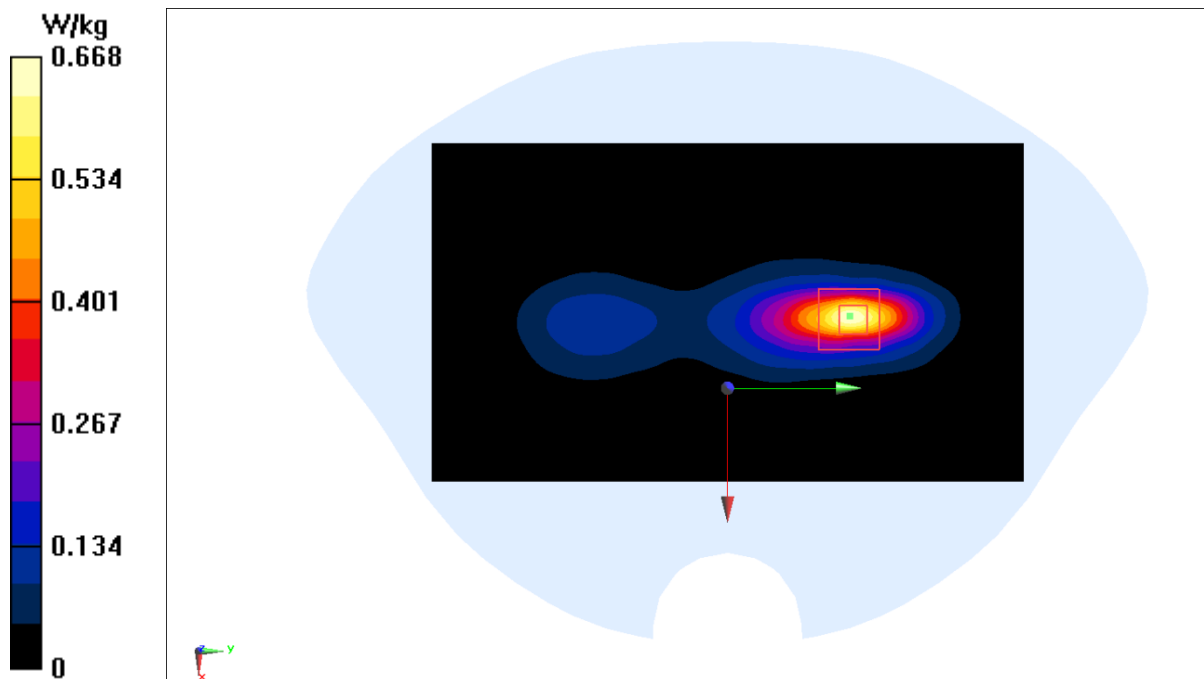
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.297 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.217 W/kg

Maximum value of SAR (measured) = 0.658 W/kg



N5 Head

Date: 2024-09-16

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 825$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 42.16$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N5 15kHz (0) Frequency: 826.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.508 W/kg

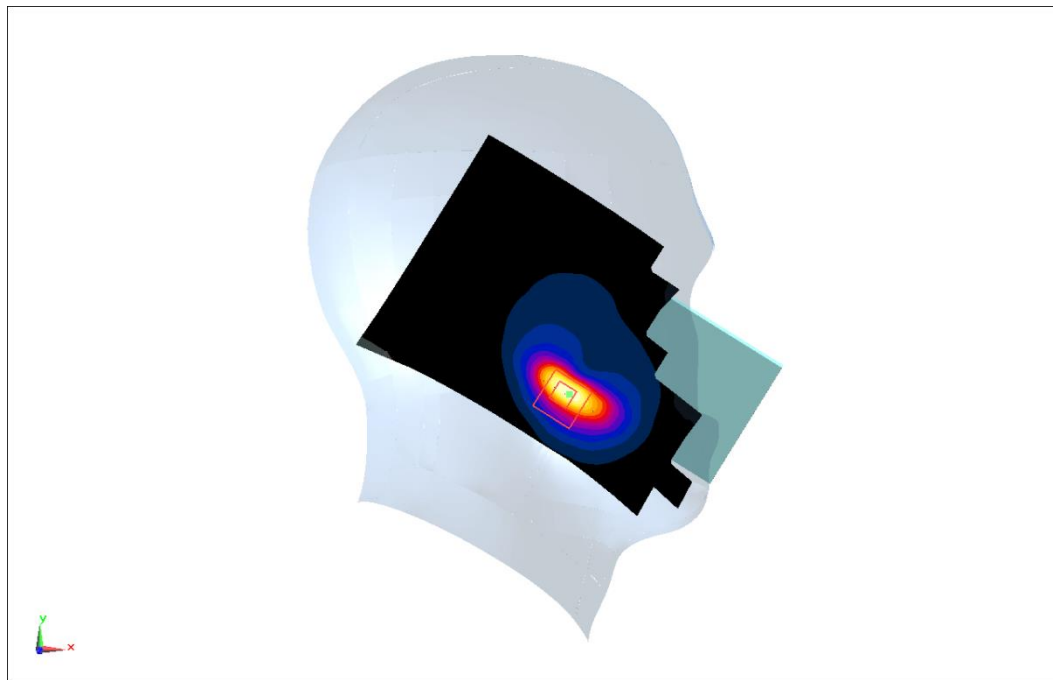
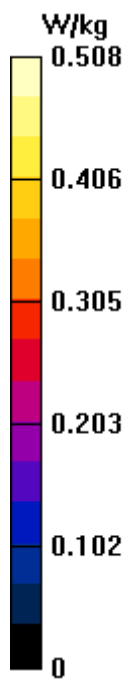
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.146 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.620 W/kg

SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.491 W/kg



N5 Body 10mm

Date: 2024-09-16

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 825$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 42.16$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N5 15kHz (0) Frequency: 826.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.340 W/kg

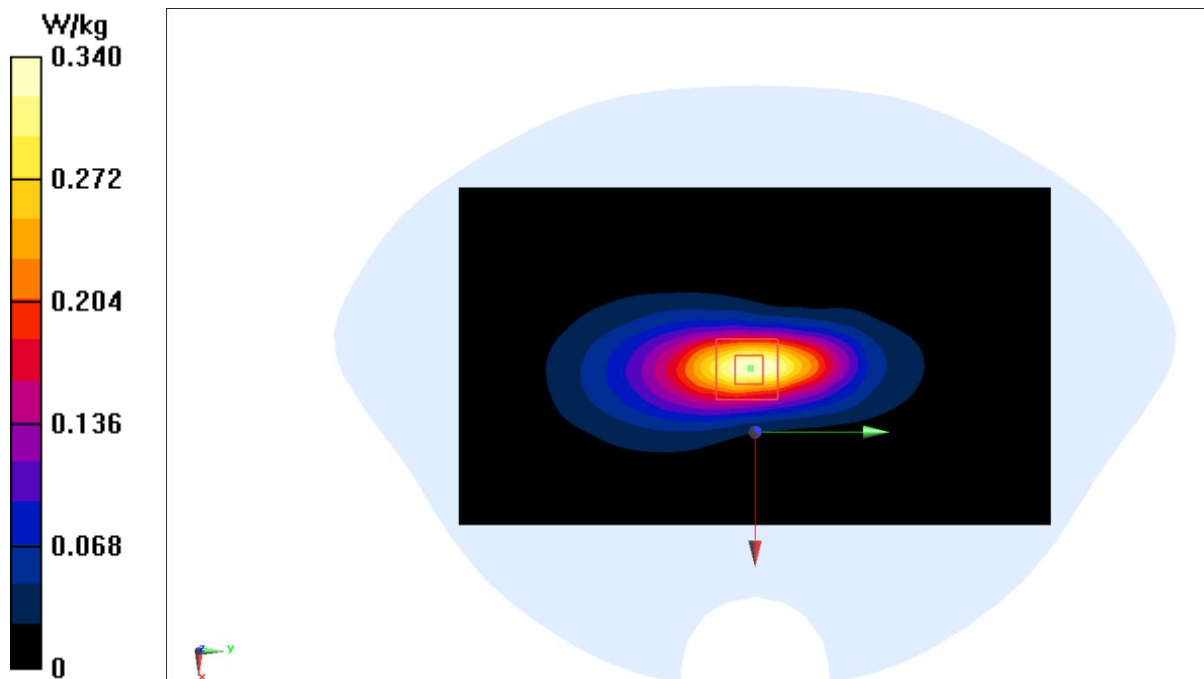
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 15.25 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.438 W/kg

SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.131 W/kg

Maximum value of SAR (measured) = 0.355 W/kg



N7 Head

Date: 2024-09-12

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 39.54$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N7 15kHz (0) Frequency: 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (101x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.854 W/kg

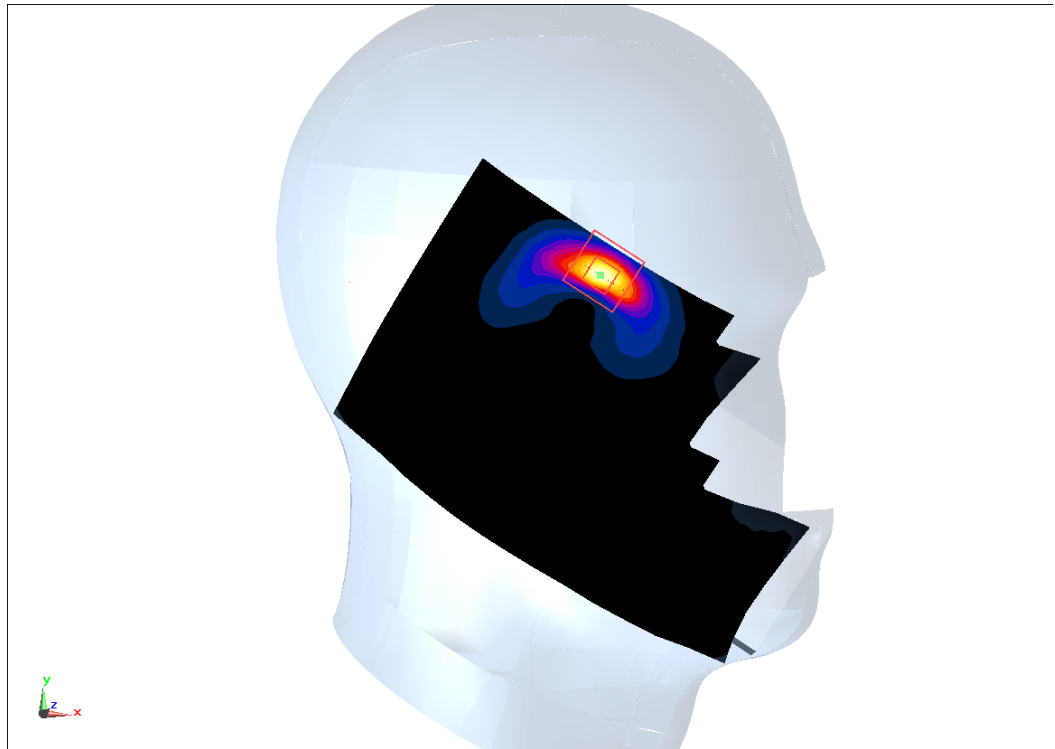
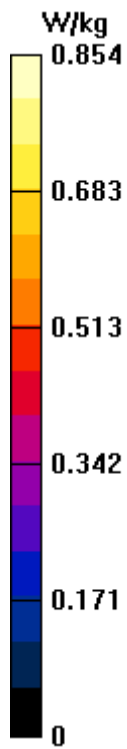
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.915 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.184 W/kg

Maximum value of SAR (measured) = 0.848 W/kg



N7 Body 10mm

Date: 2024-09-12

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2565$ MHz; $\sigma = 1.892$ S/m; $\epsilon_r = 39.51$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N7 15kHz (0) Frequency: 2567.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (81x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.652 W/kg

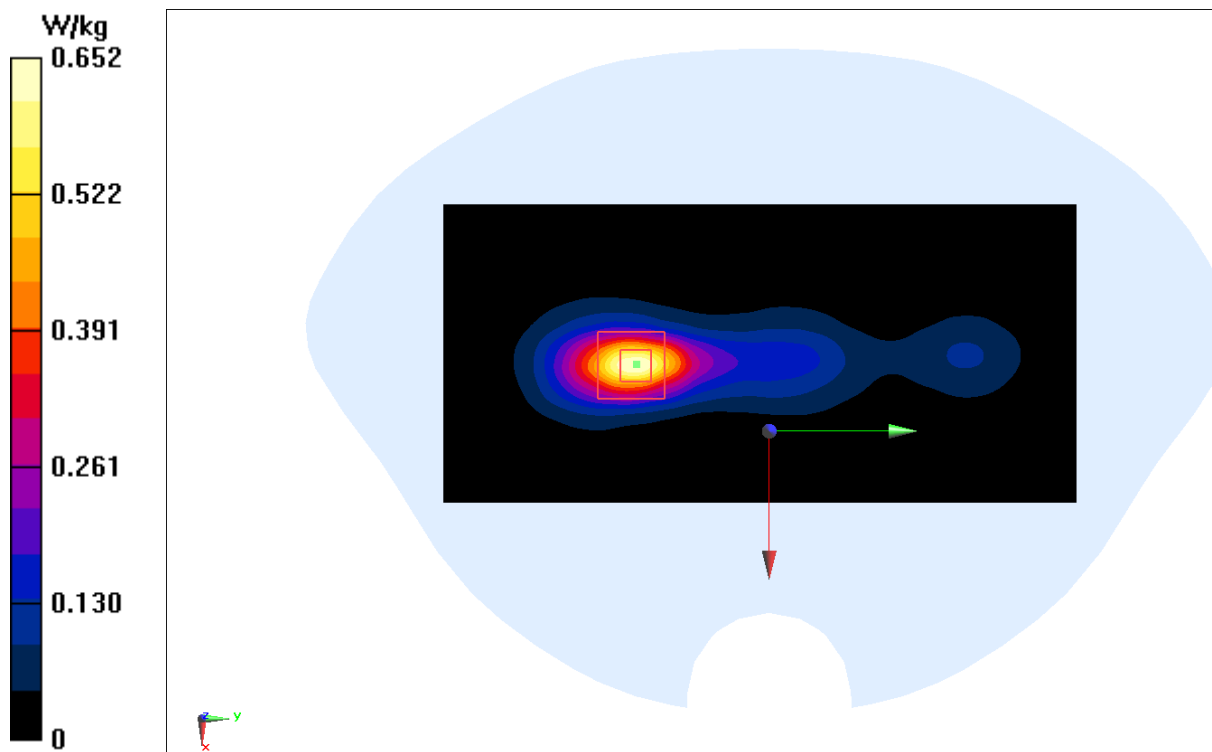
Zoom Scan (9x10x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 7.108 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.625 W/kg



N12 Head

Date: 2024-09-01

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 700$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 43.25$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N12 15kHz (0) Frequency: 701.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.473 W/kg

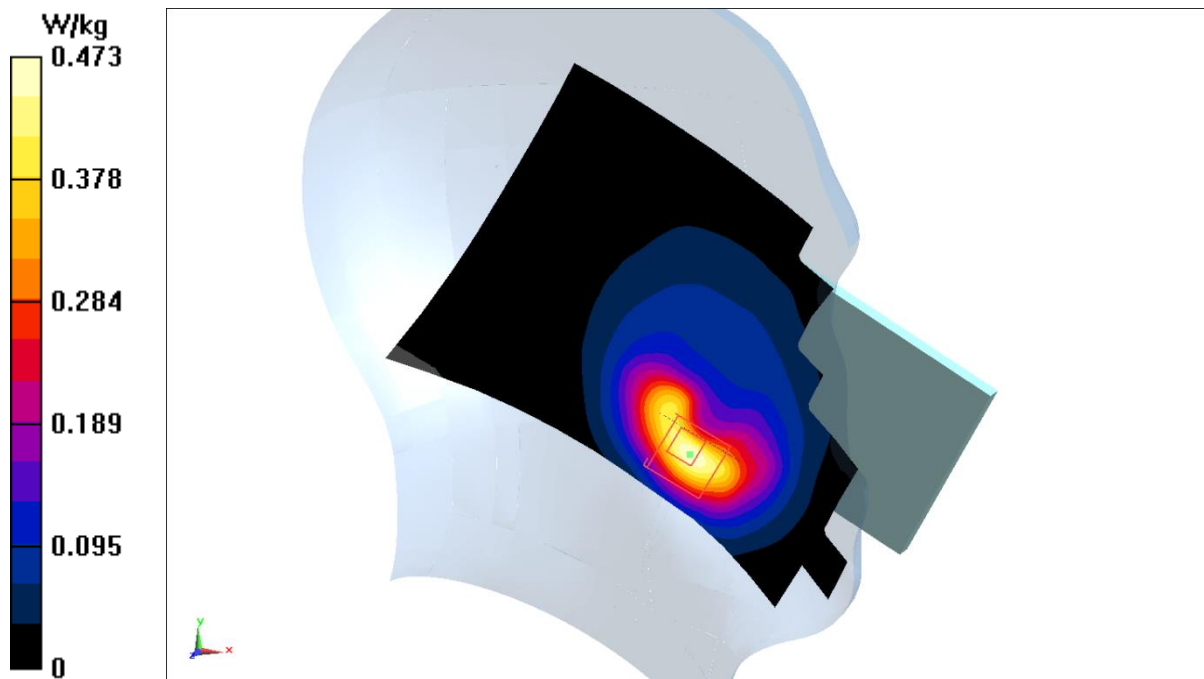
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.675 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.200 W/kg

Maximum value of SAR (measured) = 0.592 W/kg



N12 Body 10mm

Date: 2024-09-01

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 715\text{ MHz}$; $\sigma = 0.916\text{ S/m}$; $\epsilon_r = 43.19$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N12 15kHz (0) Frequency: 713.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x141x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Maximum value of SAR (interpolated) = 0.619 W/kg

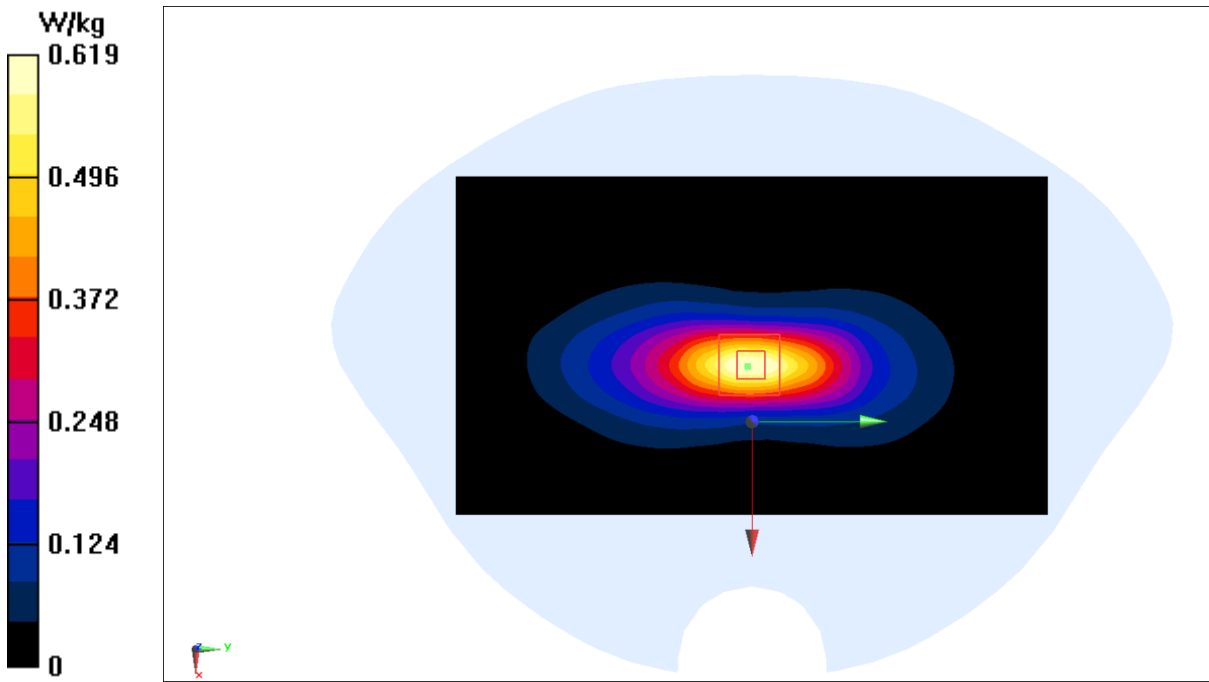
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.51 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.803 W/kg

SAR(1 g) = 0.448 W/kg; SAR(10 g) = 0.263 W/kg

Maximum value of SAR (measured) = 0.671 W/kg



N25 Head

Date: 2024-09-04

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1850$ MHz; $\sigma = 1.397$ S/m; $\epsilon_r = 40.29$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N25 15kHz (0) Frequency: 1852.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.718 W/kg

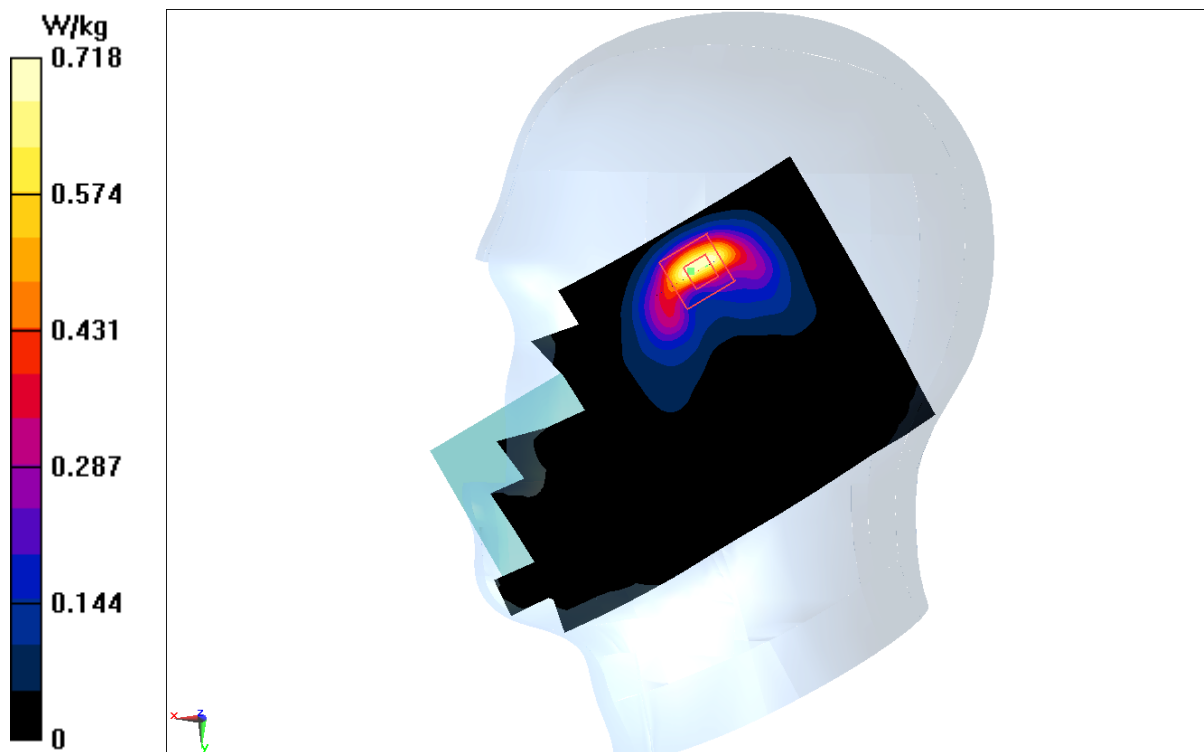
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.653 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.615 W/kg; SAR(10 g) = 0.277 W/kg

Maximum value of SAR (measured) = 0.924 W/kg



N25 Body 10mm

Date: 2024-09-04

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1850\text{ MHz}$; $\sigma = 1.397\text{ S/m}$; $\epsilon_r = 40.29$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N25 15kHz (0) Frequency: 1852.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (81x141x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$

Maximum value of SAR (interpolated) = 0.937 W/kg

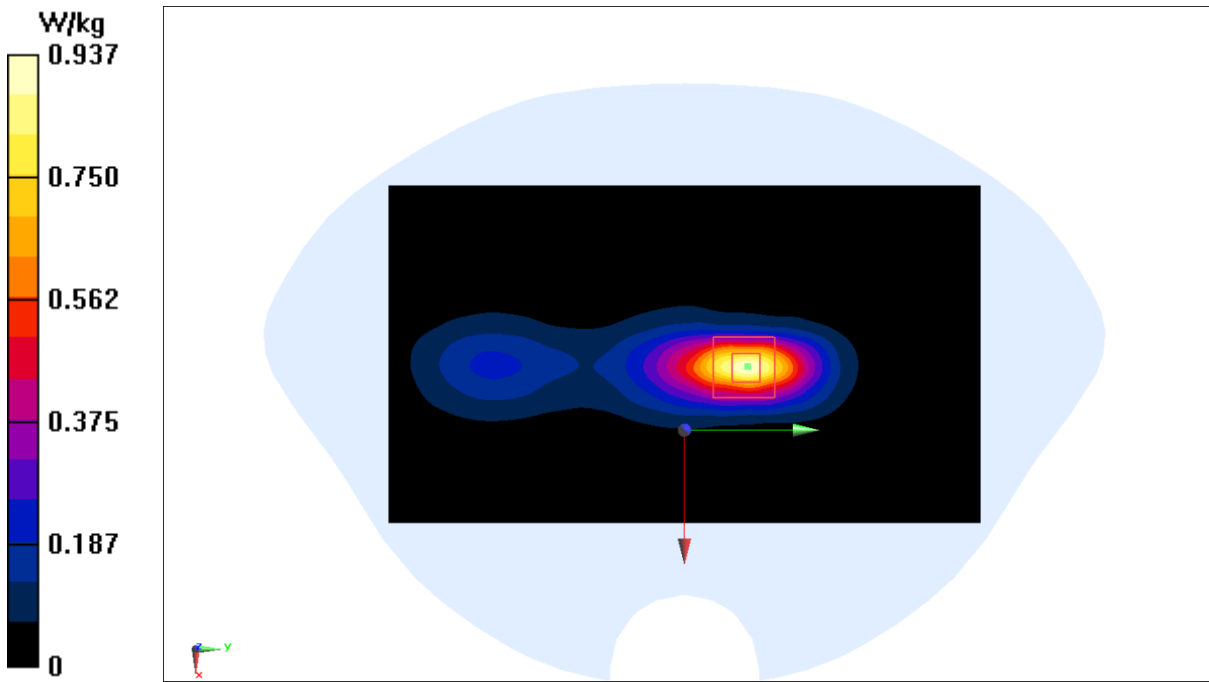
Zoom Scan (6x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.93 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.988 W/kg

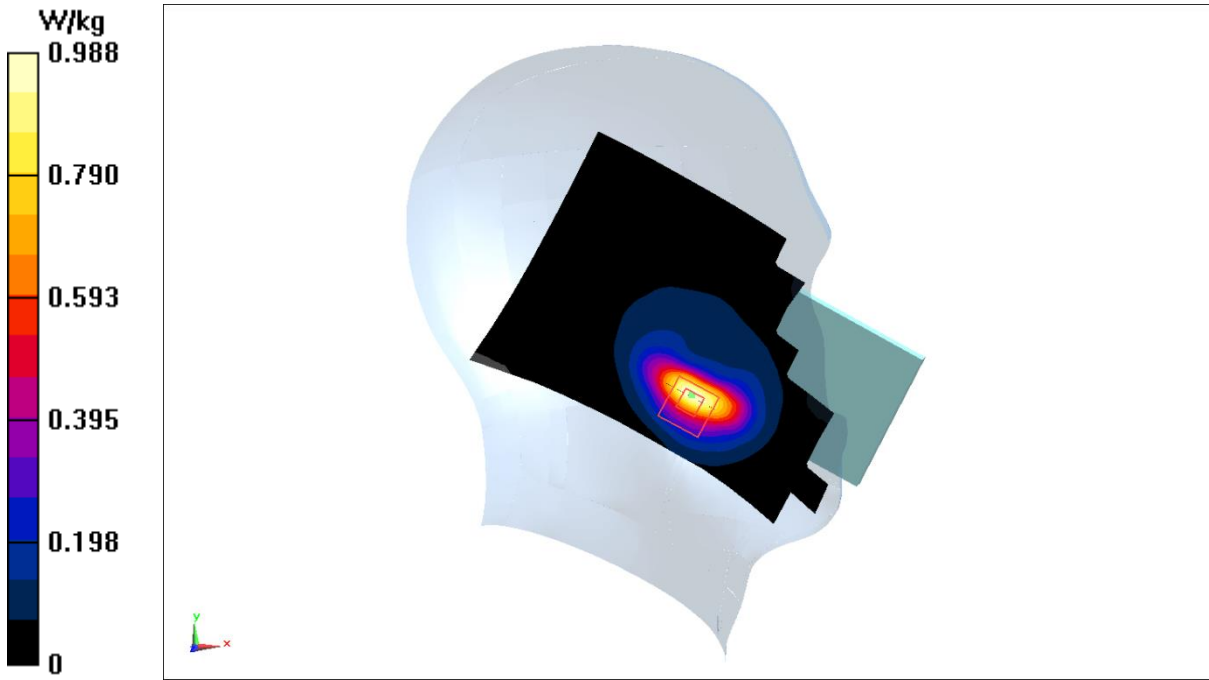


N26 Head

Date: 2024-09-16
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used: $f = 815\text{ MHz}$; $\sigma = 0.914\text{ S/m}$; $\epsilon_r = 42.17$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature:23.3°C Liquid Temperature: 22.5°C
Communication System: 5G NR N26 15kHz (0) Frequency: 816.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x121x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$
Maximum value of SAR (interpolated) = 0.988 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.031 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.35 W/kg
 $\text{SAR}(1\text{ g}) = 0.591\text{ W/kg}$; $\text{SAR}(10\text{ g}) = 0.295\text{ W/kg}$
Maximum value of SAR (measured) = 1.03 W/kg



N26 Body 10mm

Date: 2024-09-16

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 815 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 42.17$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N26 15kHz (0) Frequency: 816.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (81x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.623 W/kg

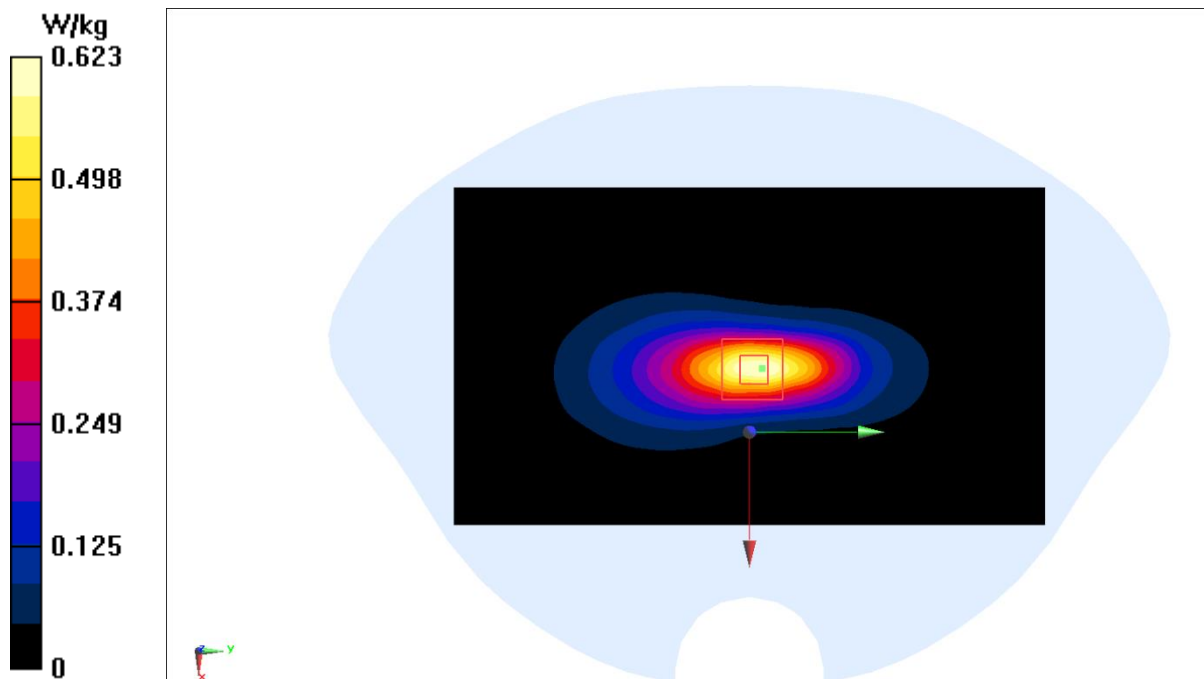
Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.15 V/m ; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.419 W/kg ; SAR(10 g) = 0.236 W/kg

Maximum value of SAR (measured) = 0.631 W/kg



N38 Head

Date: 2024-09-18

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.936$ S/m; $\epsilon_r = 39.87$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N38 30kHz (0) Frequency: 2595 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (101x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.816 W/kg

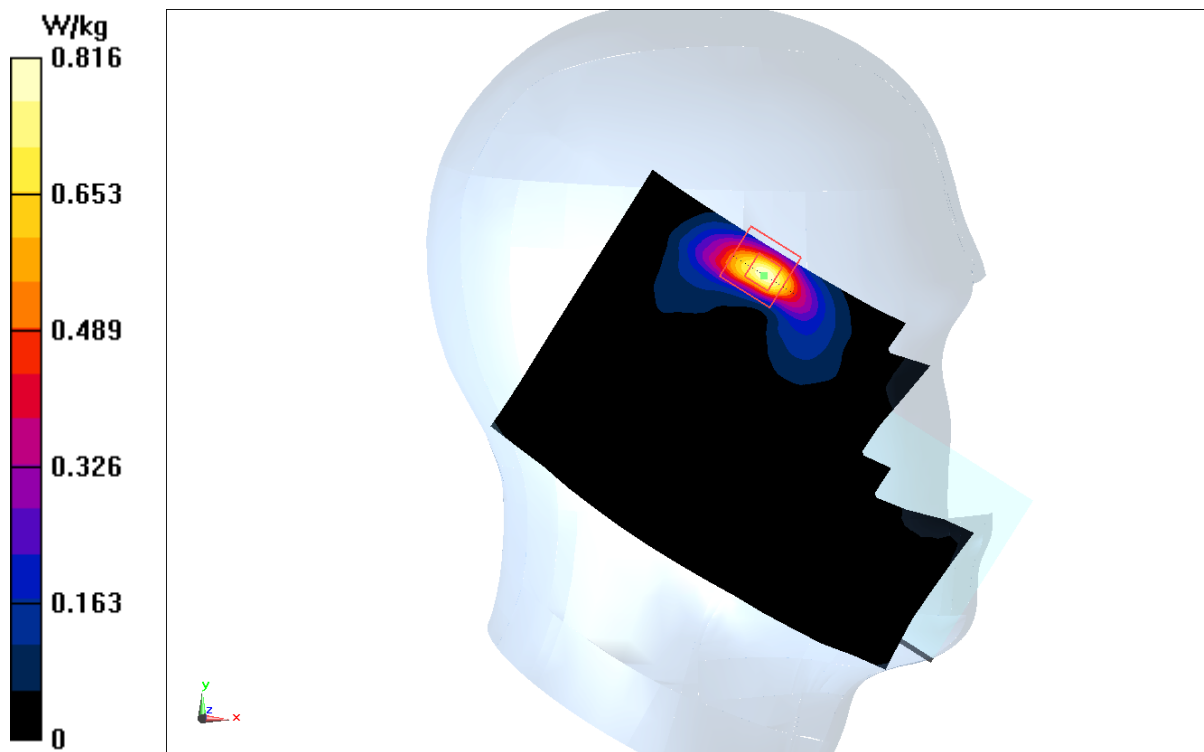
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.698 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.184 W/kg

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



N38 Body 10mm

Date: 2024-09-18

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2575 \text{ MHz}$; $\sigma = 1.92 \text{ S/m}$; $\epsilon_r = 39.9$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G n38 (0) Frequency: 2575 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (91x171x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

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

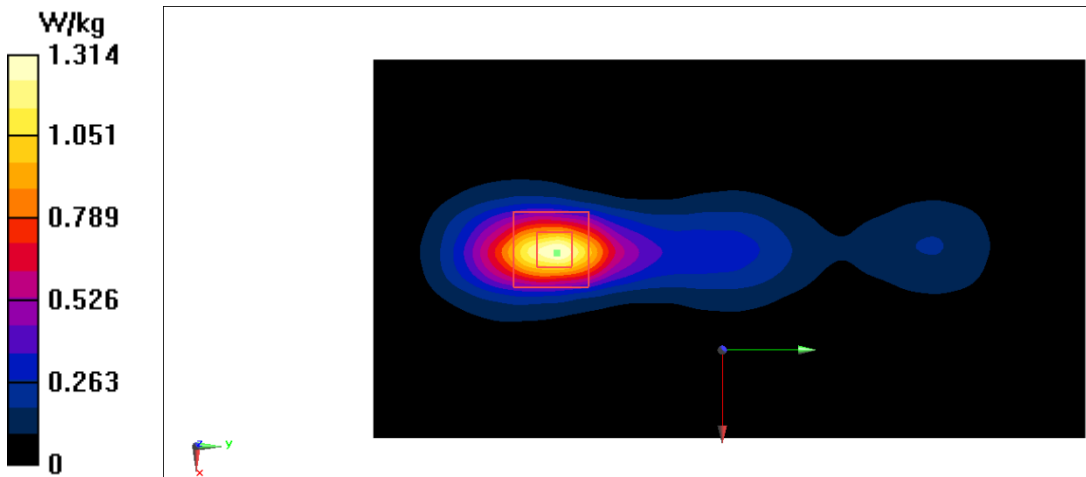
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.87 V/m ; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.780 W/kg ; SAR(10 g) = 0.349 W/kg

Maximum value of SAR (measured) = 1.32 W/kg

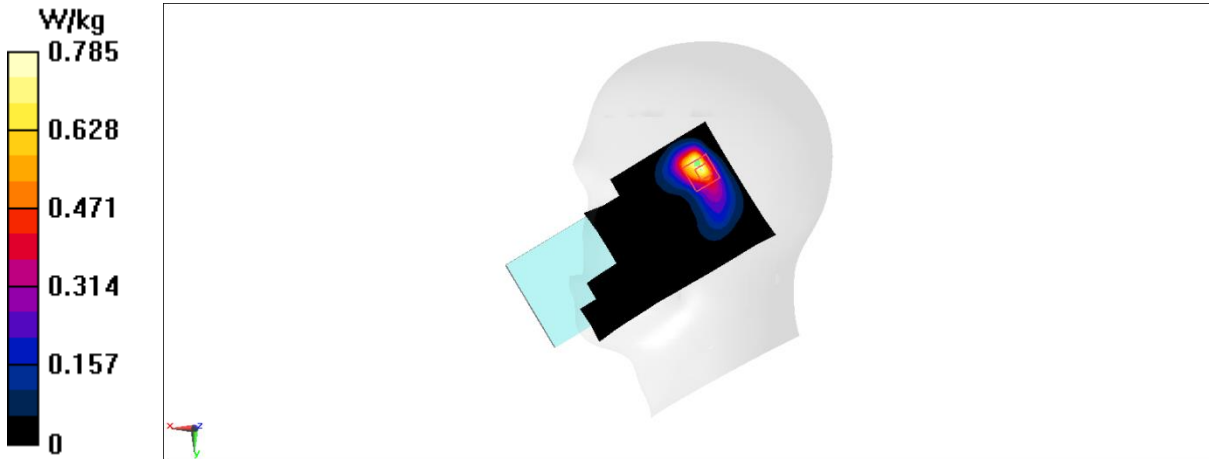


N41 Head

Date: 2024-09-20
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used (interpolated): $f = 2500\text{ MHz}$; $\sigma = 1.881\text{ S/m}$; $\epsilon_r = 40.41$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature:23.3°C Liquid Temperature: 22.5°C
Communication System: 5G n41 (0) Frequency: 2501.01 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (101x151x1): Interpolated grid: $dx=1.200\text{ mm}$, $dy=1.200\text{ mm}$
Maximum value of SAR (interpolated) = 0.785 W/kg

Zoom Scan (8x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 14.72 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.987 W/kg
 $\text{SAR}(1\text{ g}) = 0.428\text{ W/kg}$; $\text{SAR}(10\text{ g}) = 0.197\text{ W/kg}$
Maximum value of SAR (measured) = 0.751 W/kg



N41 Body 10mm

Date: 2024-09-20

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2455$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 40.48$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G NR N41 30kHz (0) Frequency: 2455.02 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (81x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.874 W/kg

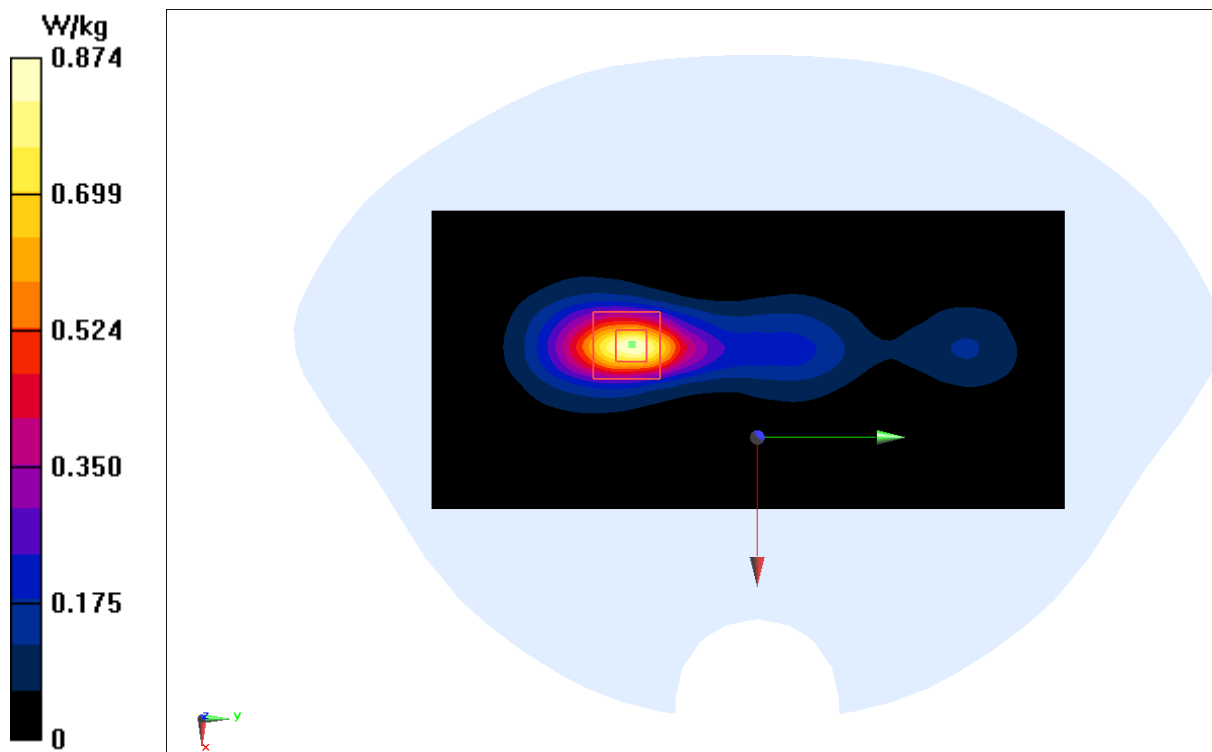
Zoom Scan (9x10x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.083 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.232 W/kg

Maximum value of SAR (measured) = 0.826 W/kg

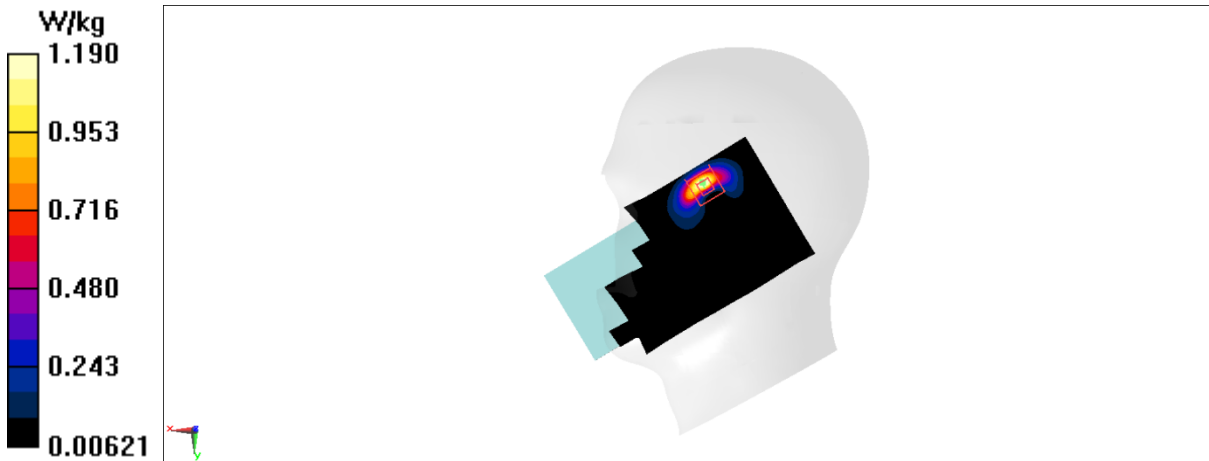


N66 Head

Date: 9/6/2024
Electronics: DAE4 Sn1331
Medium: H700-6000M
Medium parameters used (interpolated): $f = 1777.5\text{ MHz}$; $\sigma = 1.383\text{ S/m}$; $\epsilon_r = 41.12$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature:23.3°C Liquid Temperature: 22.5°C
Communication System: 5G N66 (0) Frequency: 1777.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7673 ConvF(8.45, 8.45, 8.45)

Area Scan (71x121x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$
Maximum value of SAR (interpolated) = 1.30 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 4.345 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.71 W/kg
 $\text{SAR}(1\text{ g}) = 0.754\text{ W/kg}$; $\text{SAR}(10\text{ g}) = 0.320\text{ W/kg}$
Maximum value of SAR (measured) = 1.19 W/kg



N66 Body 10mm

Date: 9/6/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1777.5$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 41.12$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 5G N66 (0) Frequency: 1777.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.45, 8.45, 8.45)

Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.854 W/kg

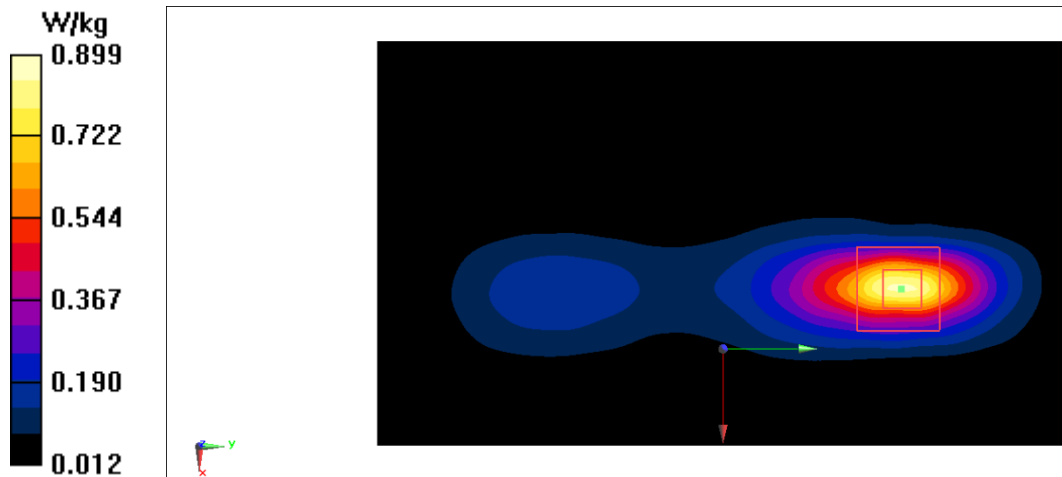
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.089 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.289 W/kg

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



WIFI2.4G Head

Date: 2024-09-21

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2470\text{ MHz}$; $\sigma = 1.879\text{ S/m}$; $\epsilon_r = 40.86$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: WIFI 2450 (0) Frequency: 2472 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (91x171x1): Interpolated grid: $dx=1.200\text{ mm}$, $dy=1.200\text{ mm}$

Maximum value of SAR (interpolated) = 0.946 W/kg

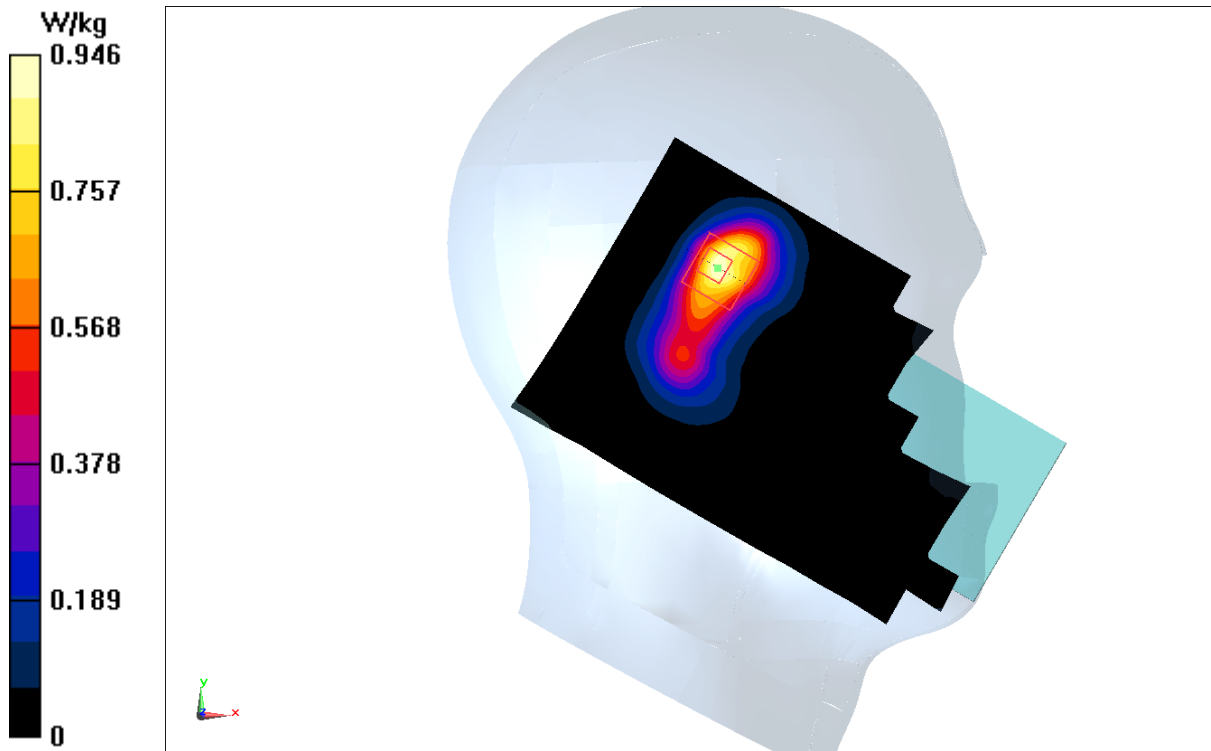
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.52 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.323 W/kg

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



WiFi2.4G Body 10mm

Date: 2024-09-21

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2410$ MHz; $\sigma = 1.833$ S/m; $\epsilon_r = 40.96$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: 1WiFi 2450 (0) Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (91x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.455 W/kg

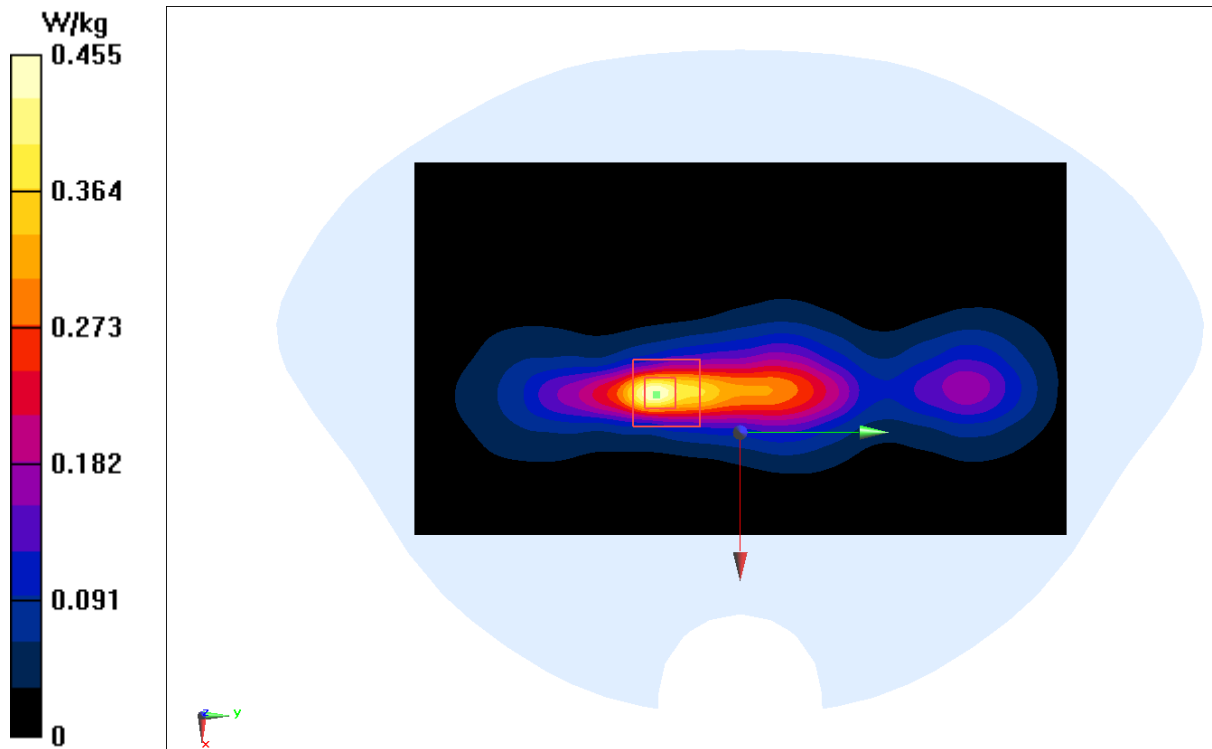
Zoom Scan (9x11x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.45 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.567 W/kg

SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.126 W/kg

Maximum value of SAR (measured) = 0.450 W/kg



WIFI5G Head

Date: 2024-09-23

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 5765 \text{ MHz}$; $\sigma = 5.169 \text{ S/m}$; $\epsilon_r = 35.53$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WLan 11a (0) Frequency: 5765 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(4.9, 4.9, 4.9)

Area Scan (111x171x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

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

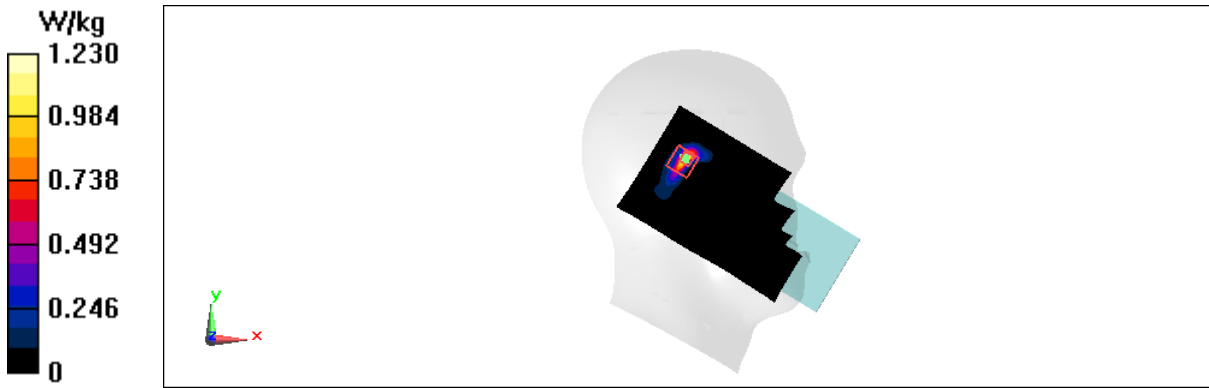
Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 3.208 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.72 W/kg

$\text{SAR}(1 \text{ g}) = 0.467 \text{ W/kg}$; $\text{SAR}(10 \text{ g}) = 0.124 \text{ W/kg}$

Maximum value of SAR (measured) = 1.42 W/kg



WIFI5G Body 10mm

Date: 2024-09-23

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.081$ S/m; $\epsilon_r = 35.65$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: WLAN 11a (0) Frequency: 5690 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(4.75, 4.75, 4.75)

Area Scan (121x221x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.839 W/kg

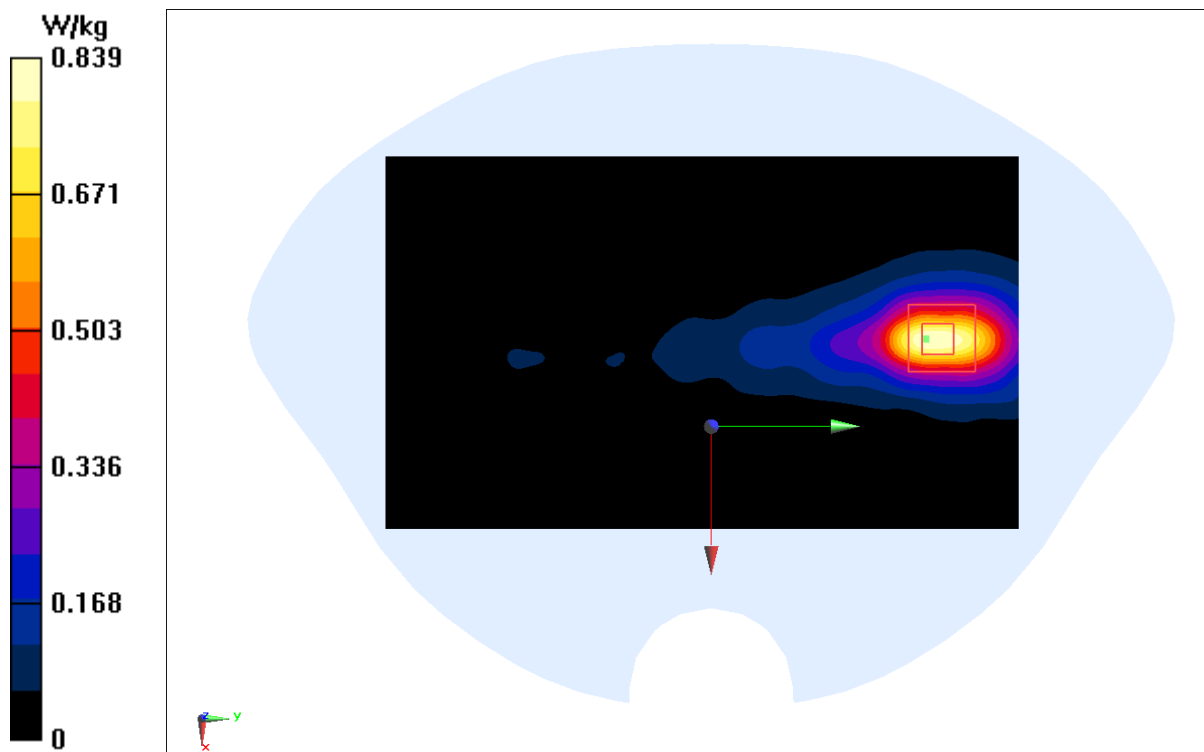
Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 1.998 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.139 W/kg

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



BT Head

Date: 2024-09-21

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2400\text{ MHz}$; $\sigma = 1.825\text{ S/m}$; $\epsilon_r = 40.97$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, BT (0) Frequency: 2402 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (91x171x1): Interpolated grid: $dx=1.200\text{ mm}$, $dy=1.200\text{ mm}$

Maximum value of SAR (interpolated) = 0.0580 W/kg

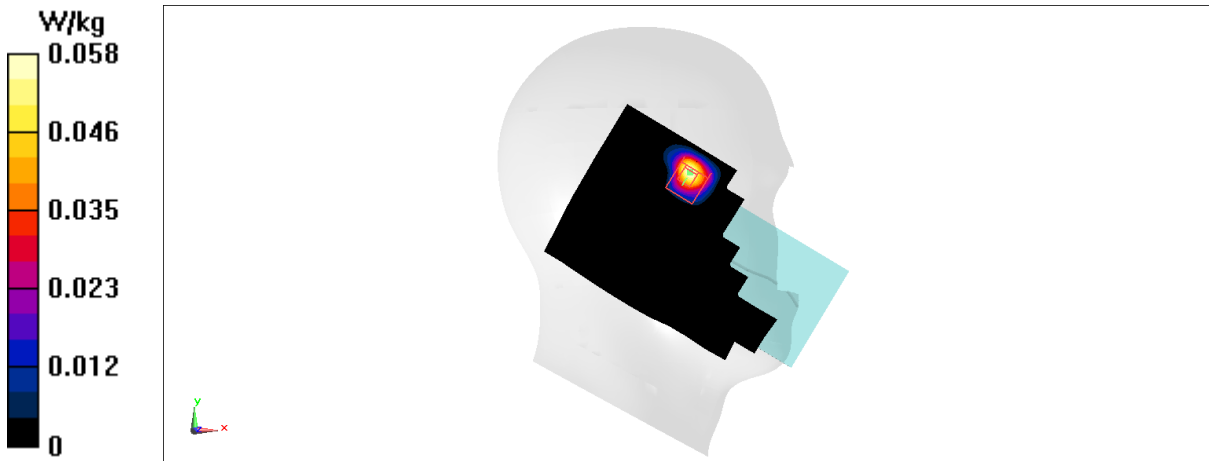
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.252 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.190 W/kg

SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.021 W/kg

Maximum value of SAR (measured) = 0.130 W/kg



ANNEX B System Verification Results

750MHz

Date: 2024-09-01

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.928 \text{ S/m}$; $\epsilon_r = 43.11$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (131x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.79 W/kg

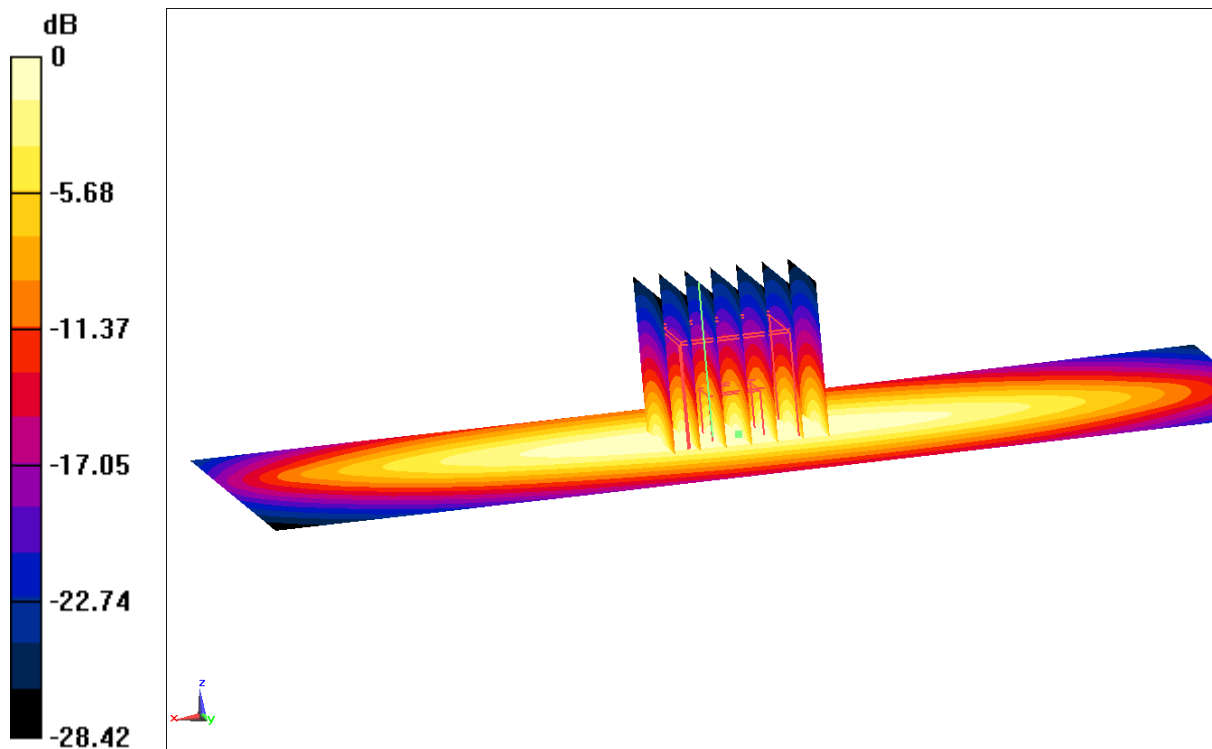
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.68 V/m ; Power Drift = -0.7 dB

Peak SAR (extrapolated) = 3.17 W/kg

SAR(1 g) = 2.15 W/kg ; SAR(10 g) = 1.44 W/kg

Maximum value of SAR (measured) = 2.82 W/kg



0 dB = 2.77 W/kg = 4.42 dBW/kg

835MHz

Date: 2024-08-30

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.938 \text{ S/m}$; $\epsilon_r = 42.88$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (131x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.22 W/kg

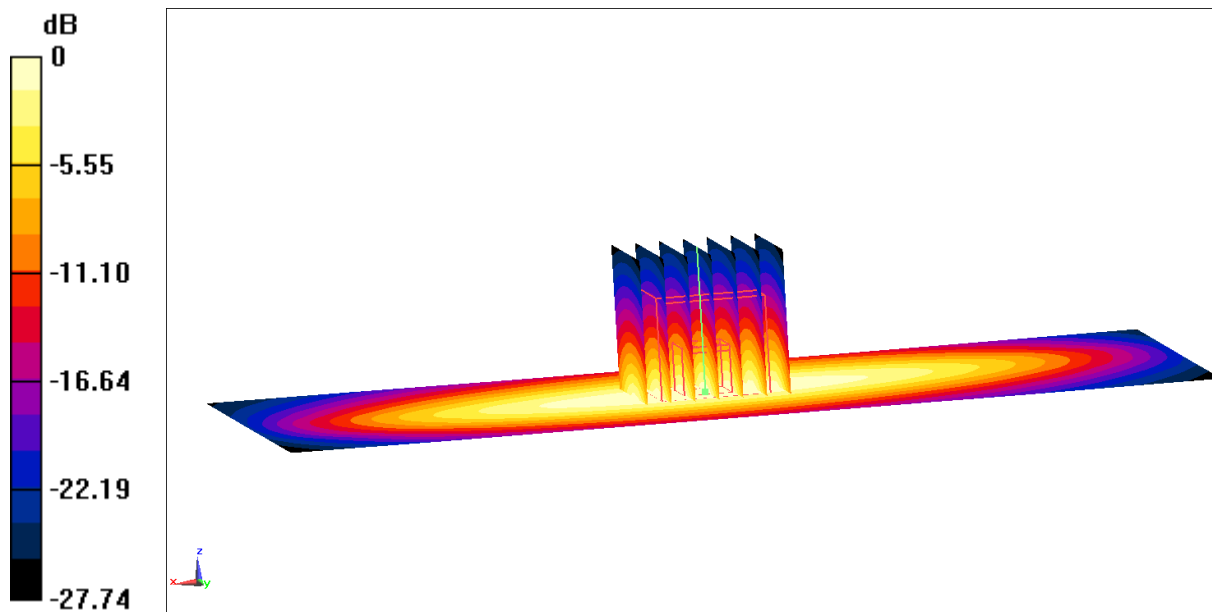
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.69 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 2.43 W/kg ; SAR(10 g) = 1.61 W/kg

Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.19 W/kg = 5.04 dBW/kg

835MHz

Date: 9/14/2024

Electronics: DAE4 Sn549

Medium: H700-6000M

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.928 \text{ S/m}$; $\epsilon_r = 42.49$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.85, 9.85, 9.85)

Area Scan (131x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.23 W/kg

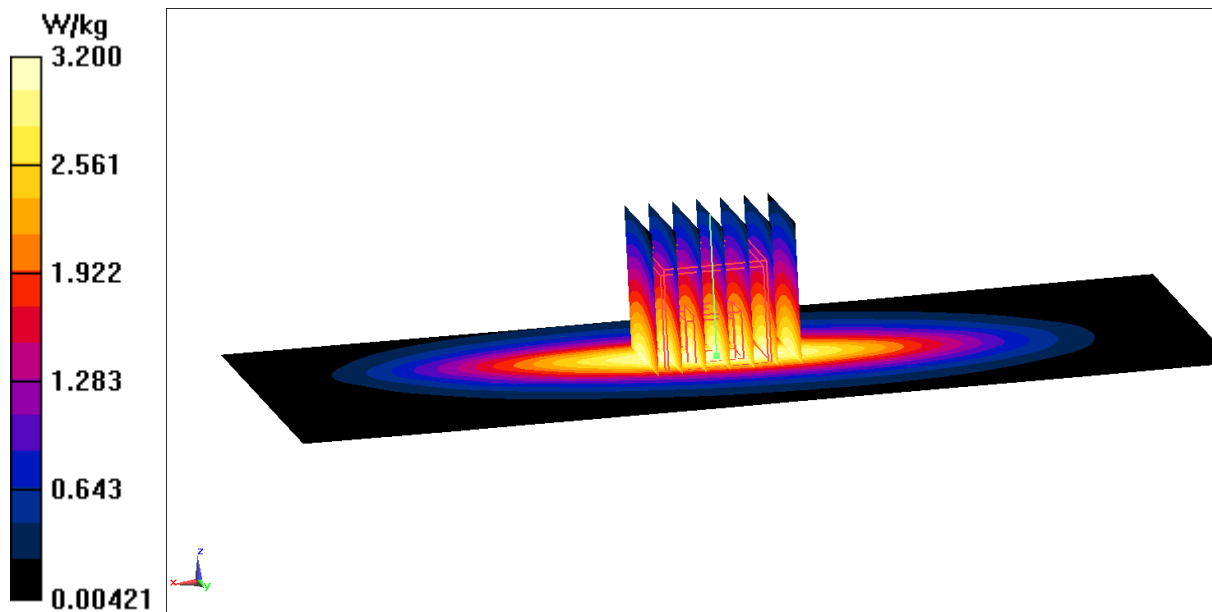
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.81 V/m ; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.45 W/kg ; SAR(10 g) = 1.62 W/kg

Maximum value of SAR (measured) = 3.23 W/kg



835MHz

Date: 2024-09-16

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.921 \text{ S/m}$; $\epsilon_r = 42.14$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.89, 9.89, 9.89)

Area Scan (131x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.28 W/kg

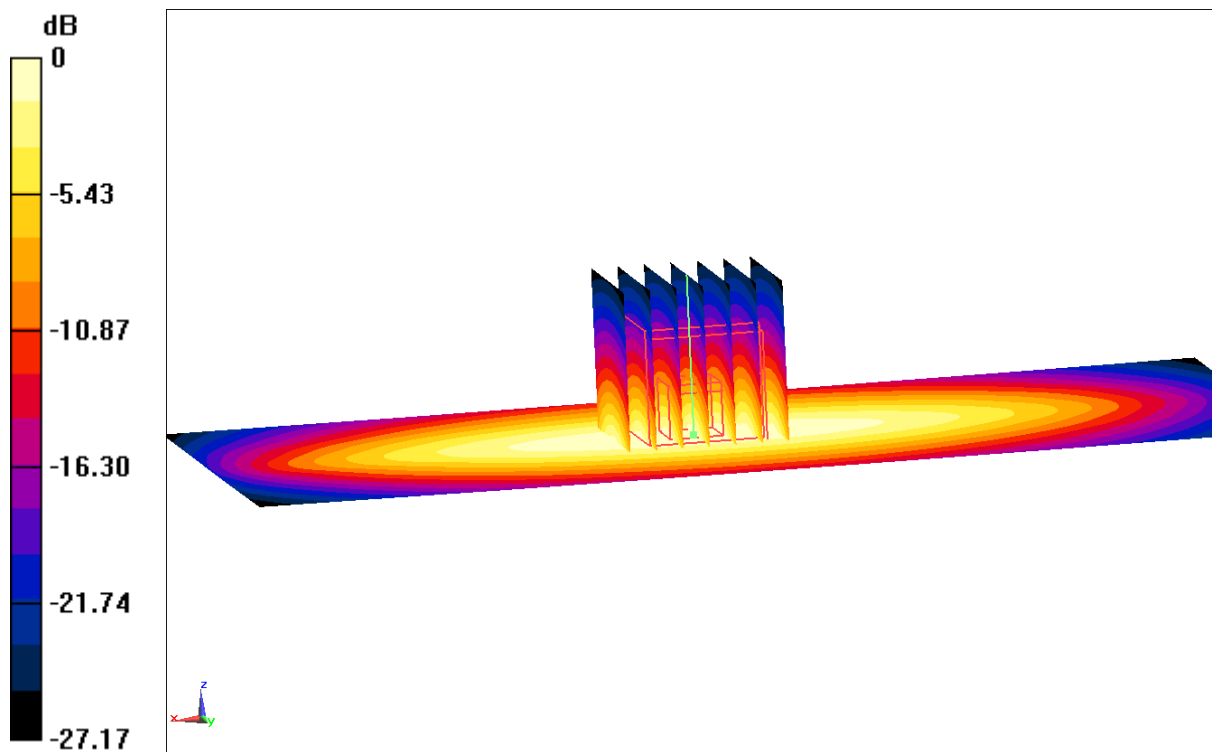
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.25 V/m ; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.74 W/kg

SAR(1 g) = 2.43 W/kg ; SAR(10 g) = 1.59 W/kg

Maximum value of SAR (measured) = 3.27 W/kg

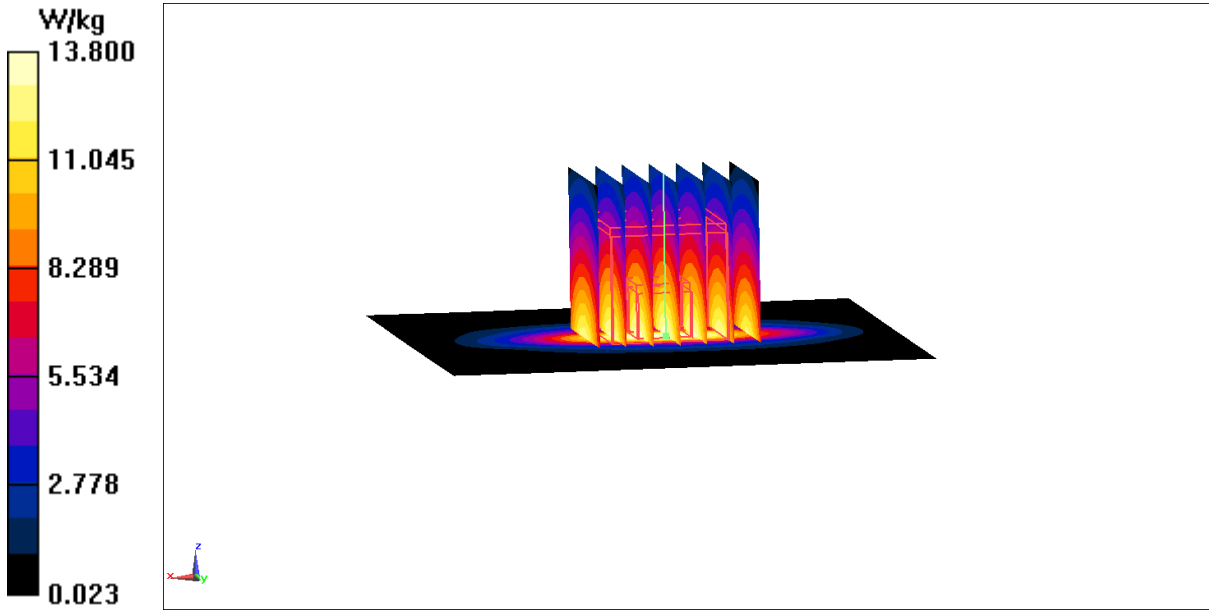


1750MHz

Date: 2024-08-31
Electronics: DAE4 Sn1807
Medium: H700-6000M
Medium parameters used: $f = 1750\text{ MHz}$; $\sigma = 1.393\text{ S/m}$; $\epsilon_r = 41.77$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature:23.3°C Liquid Temperature: 22.5°C
Communication System: CW (0) Frequency: 1750 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN3846 ConvF(8.25, 8.25, 8.25)

Area Scan (61x61x1): Interpolated grid: $dx=1.500\text{ mm}$, $dy=1.500\text{ mm}$
Maximum value of SAR (interpolated) = 13.9 W/kg

Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 97.58 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 16.4 W/kg
 $\text{SAR}(1\text{ g}) = 9.09\text{ W/kg}$; $\text{SAR}(10\text{ g}) = 4.89\text{ W/kg}$
Maximum value of SAR (measured) = 13.8 W/kg



1750MHz

Date: 9/6/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.372$ S/m; $\epsilon_r = 41.14$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.45, 8.45, 8.45)

Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 13.9 W/kg

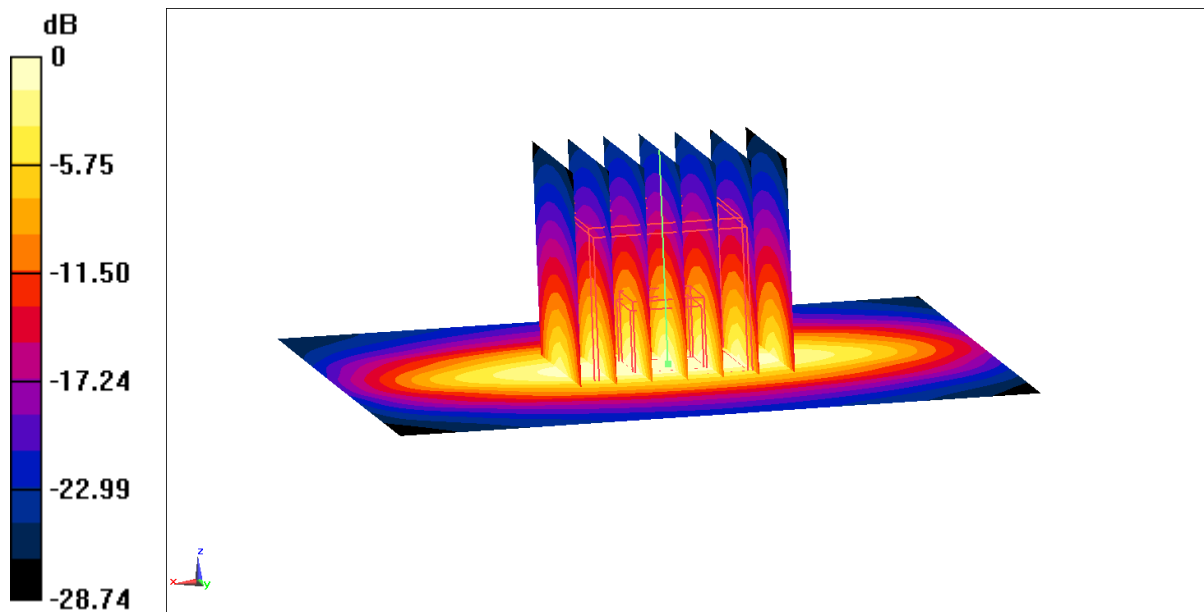
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 96.14 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 9.13 W/kg; SAR(10 g) = 4.91 W/kg

Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.8 W/kg = 11.40 dBW/kg

1900MHz

Date: 2024-09-06

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.462$ S/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 15.2 W/kg

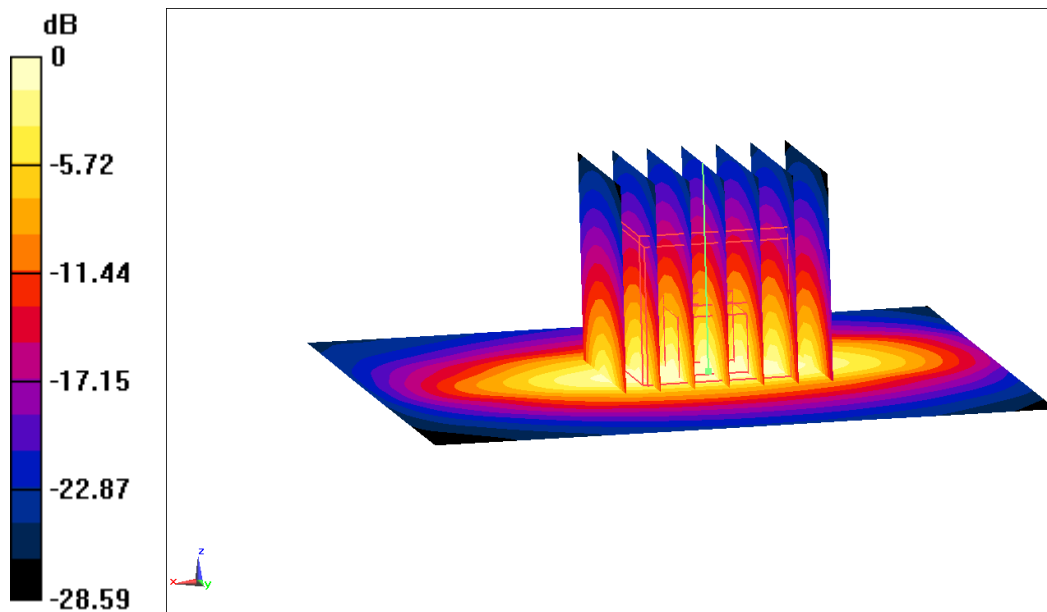
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 95.89 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 9.93 W/kg; SAR(10 g) = 5.19 W/kg

Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg = 11.85 dBW/kg

1900MHz

Date: 2024-09-07

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.448$ S/m; $\epsilon_r = 40.68$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 15.1 W/kg

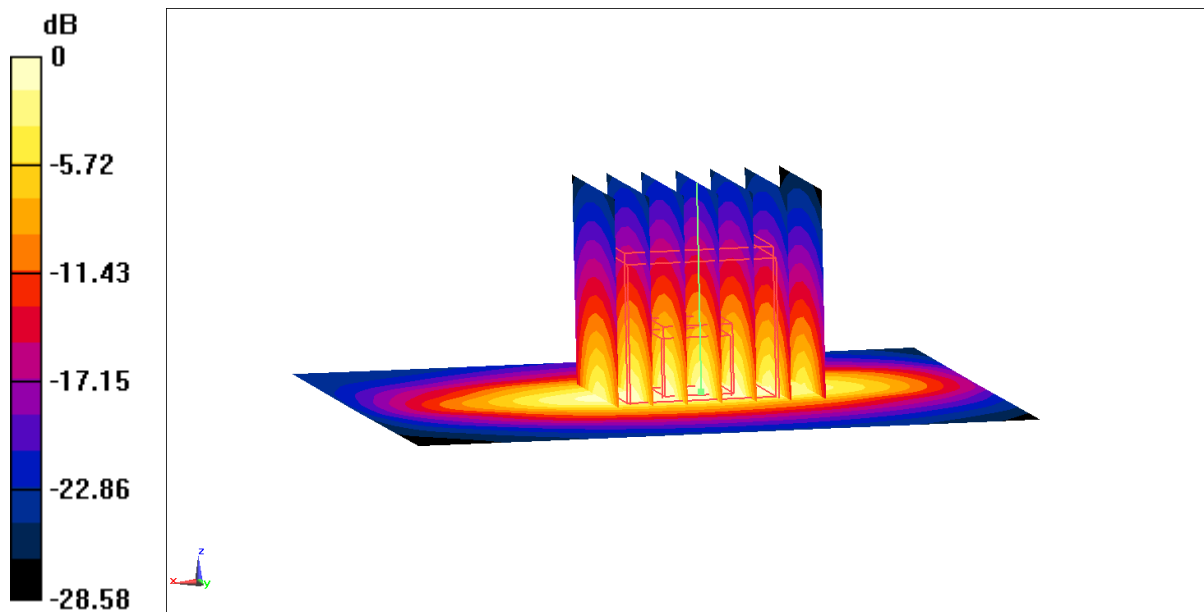
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 95.65 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 9.87 W/kg; SAR(10 g) = 5.15 W/kg

Maximum value of SAR (measured) = 15.2 W/kg



0 dB = 15.1 W/kg = 11.79 dBW/kg

1900MHz

Date: 2024-09-04

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 40.22$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.95, 7.95, 7.95)

Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 15.6 W/kg

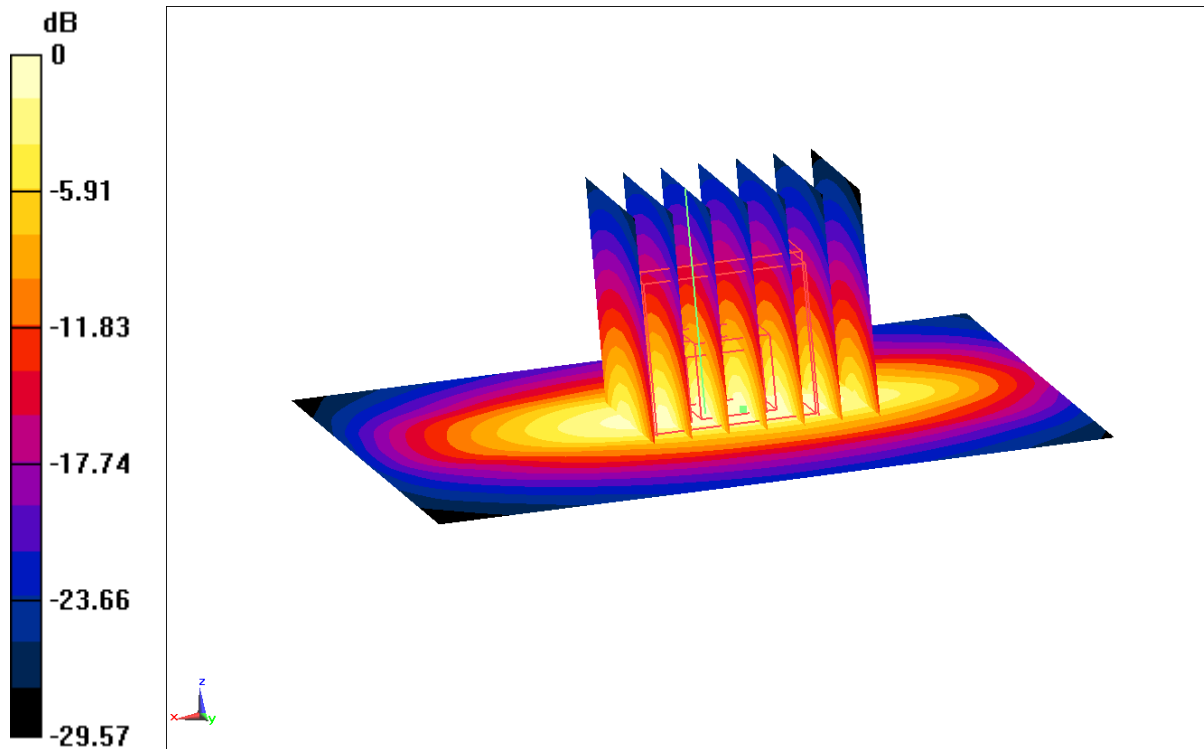
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 98.68 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 19.1 W/kg

SAR(1 g) = 9.94 W/kg; SAR(10 g) = 5.14 W/kg

Maximum value of SAR (measured) = 15.4 W/kg



0 dB = 15.5 W/kg = 11.90 dBW/kg

2450MHz

Date: 2024-09-21

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.864$ S/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.43, 7.43, 7.43)

Area Scan (61x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 21.8 W/kg

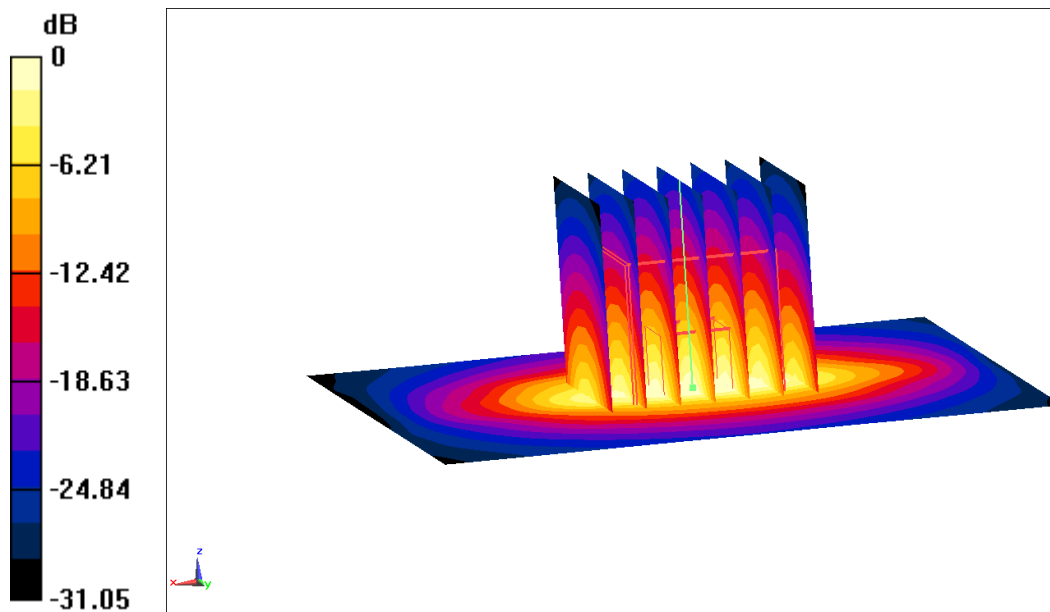
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 106.2 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 27.7 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.39 W/kg

Maximum value of SAR (measured) = 22.6 W/kg



0 dB = 21.9 W/kg = 13.40 dBW/kg

2600MHz

Date: 2024-09-14

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.949$ S/m; $\epsilon_r = 40.07$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (61x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 22.7 W/kg

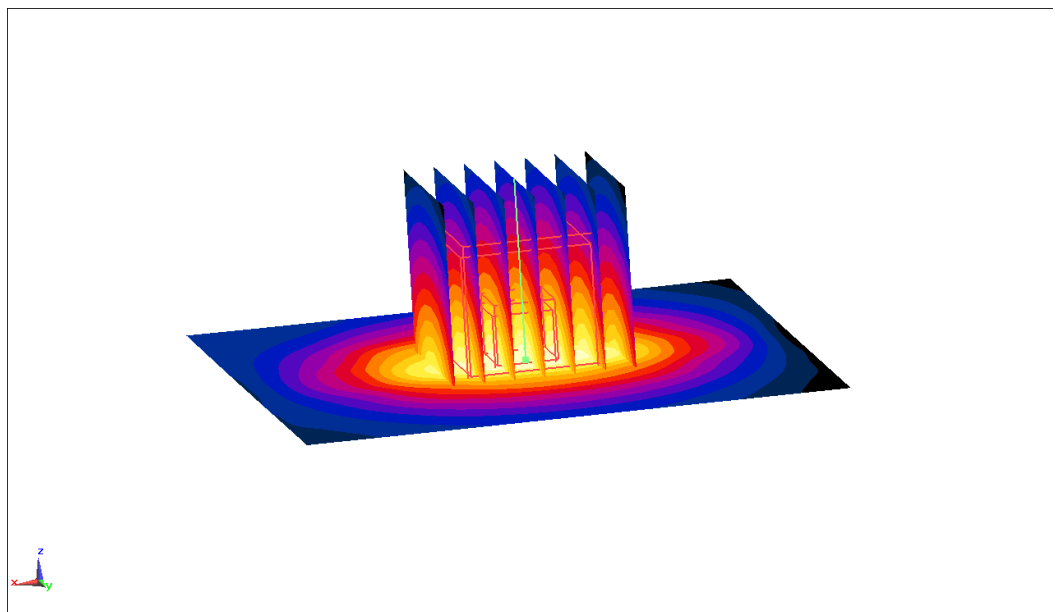
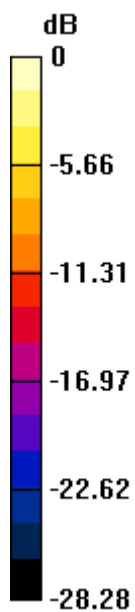
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 102.9 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 28.3 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.14 W/kg

Maximum value of SAR (measured) = 22.8 W/kg



0 dB = 22.7 W/kg = 13.56 dBW/kg

2600MHz

Date: 2024-09-09

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.969$ S/m; $\epsilon_r = 40.48$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (61x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 23.8 W/kg

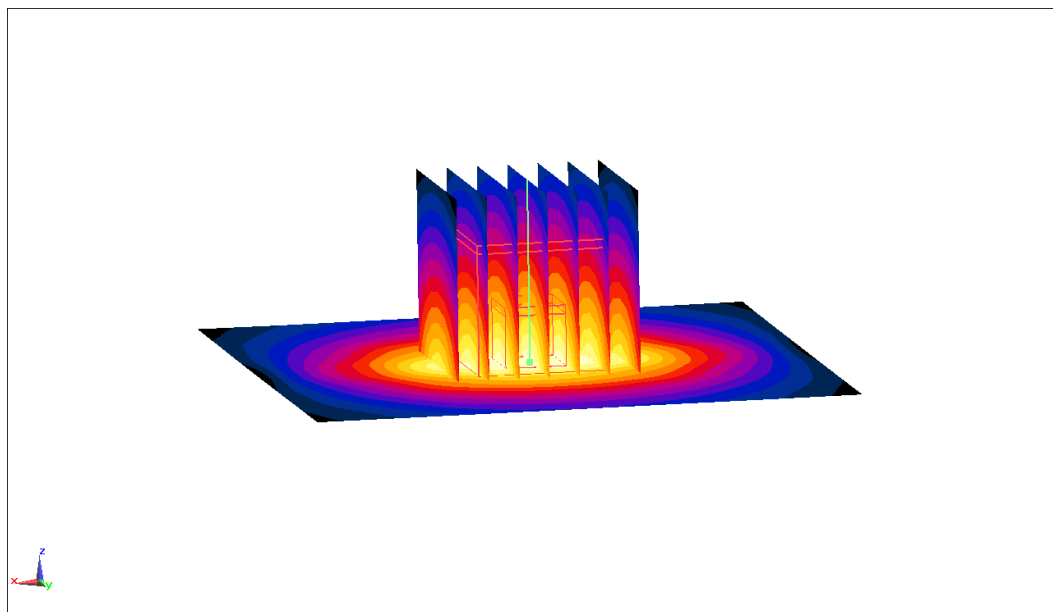
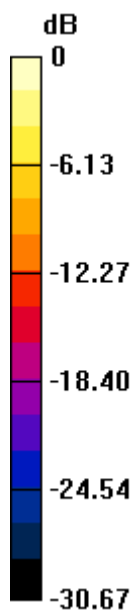
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 102.5 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.31 W/kg

Maximum value of SAR (measured) = 23.7 W/kg



0 dB = 23.9 W/kg = 13.78 dBW/kg

2600MHz

Date: 2024-09-10

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.932$ S/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (61x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 23.9 W/kg

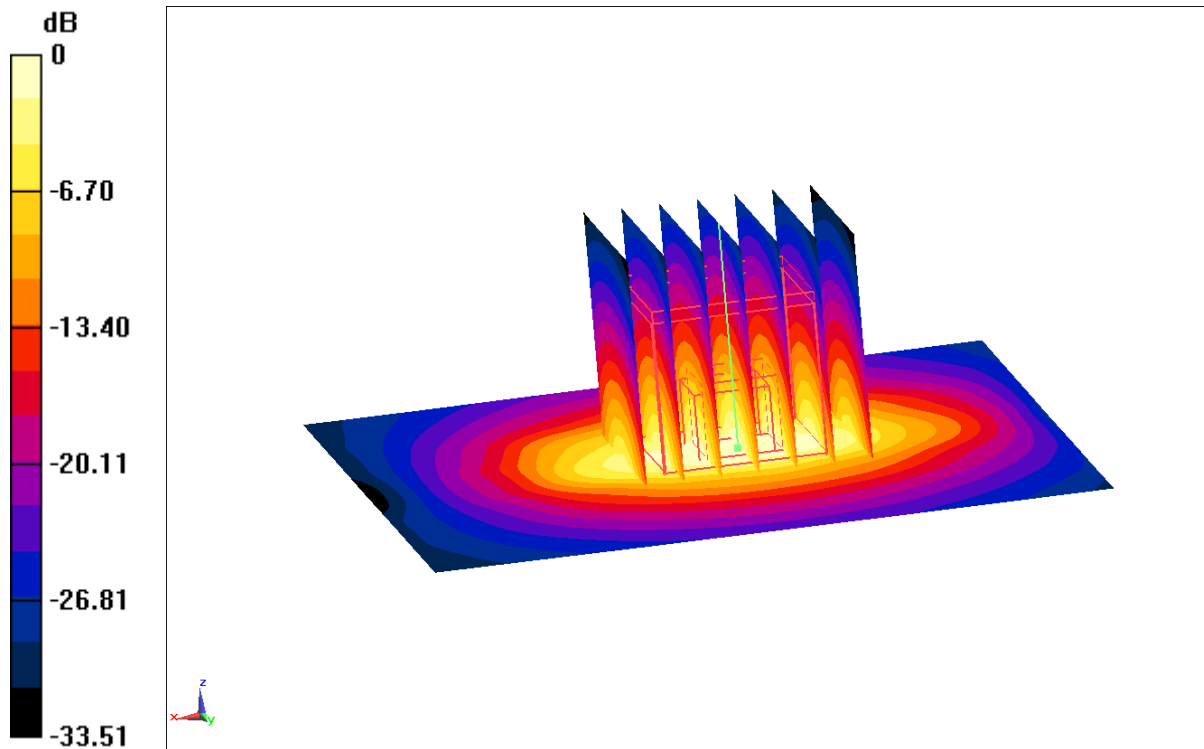
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 102.5 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 31.6 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.15 W/kg

Maximum value of SAR (measured) = 24.4 W/kg



0 dB = 23.8 W/kg = 13.77 dBW/kg

2600MHz

Date: 2024-09-12

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.92$ S/m; $\epsilon_r = 39.46$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (61x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 24.1 W/kg

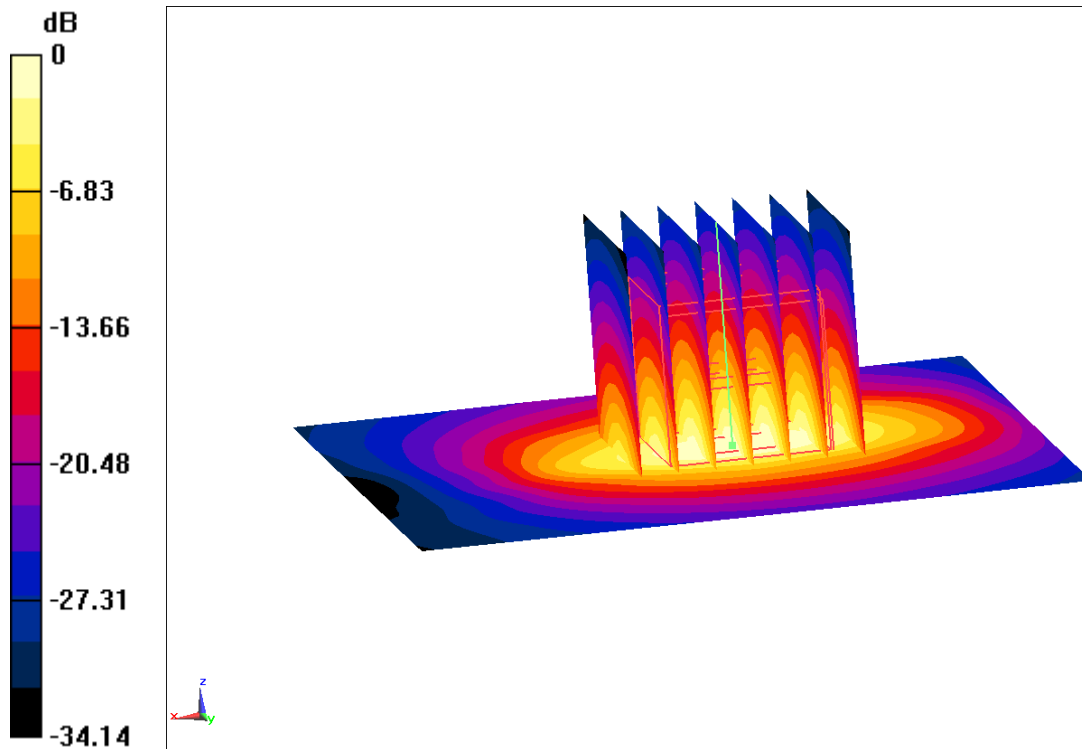
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 101.8 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 31.1 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.17 W/kg

Maximum value of SAR (measured) = 24.0 W/kg



0 dB = 24.0 W/kg = 13.80 dBW/kg

2600MHz

Date: 2024-09-18

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.939$ S/m; $\epsilon_r = 39.87$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (61x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 24.5 W/kg

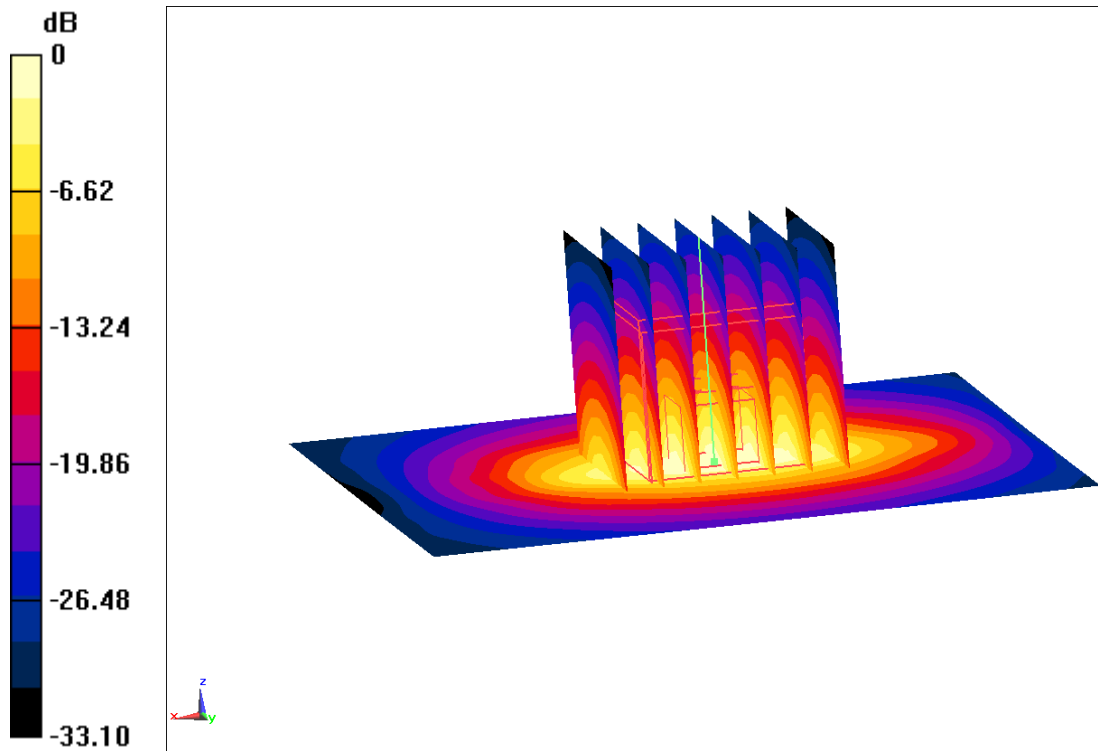
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 107.2 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 31.2 W/kg

SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.35 W/kg

Maximum value of SAR (measured) = 24.7 W/kg



0 dB = 24.4 W/kg = 13.87 dBW/kg

2600MHz

Date: 2024-09-20

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 40.27$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.28, 7.28, 7.28)

Area Scan (61x61x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 23.5 W/kg

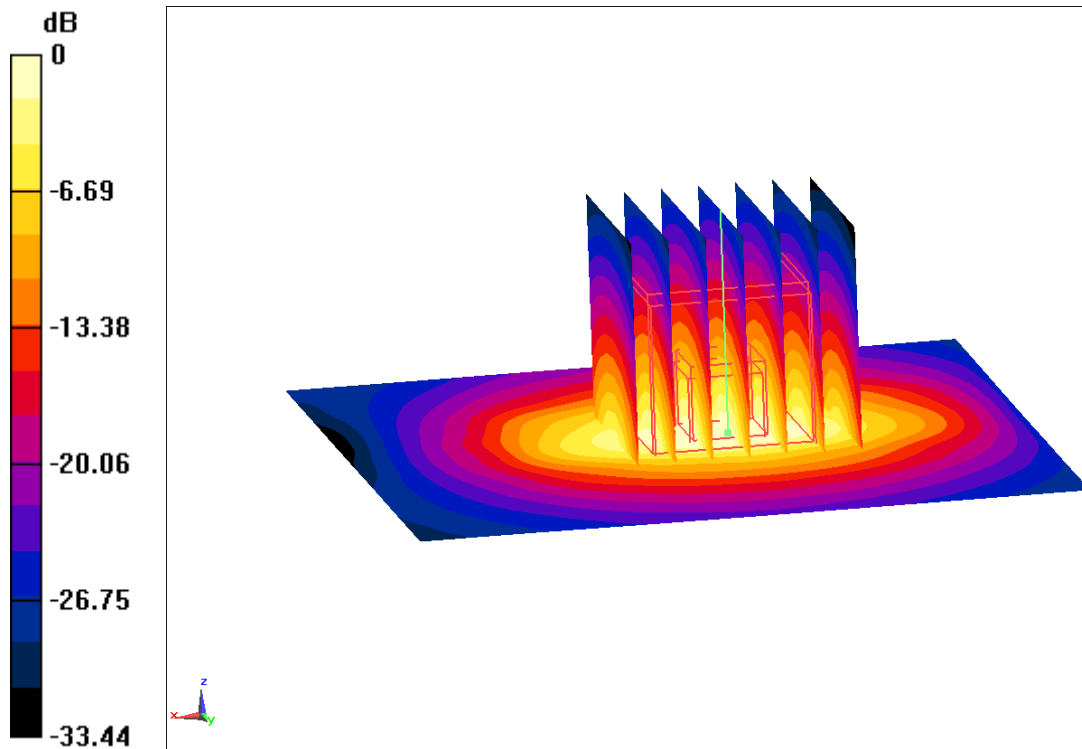
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 101.7 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.15 W/kg

Maximum value of SAR (measured) = 23.6 W/kg



0 dB = 23.4 W/kg = 13.69 dBW/kg

5250MHz

Date: 2024-09-23

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 5250\text{ MHz}$; $\sigma = 4.587\text{ S/m}$; $\epsilon_r = 36.39$; $\rho = 1000\text{ kg/m}^3$

Ambient Temperature:23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 5250 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(5.45, 5.45, 5.45)

Area Scan (91x91x1): Interpolated grid: $dx=1.000\text{ mm}$, $dy=1.000\text{ mm}$

Maximum value of SAR (interpolated) = 18.7 W/kg

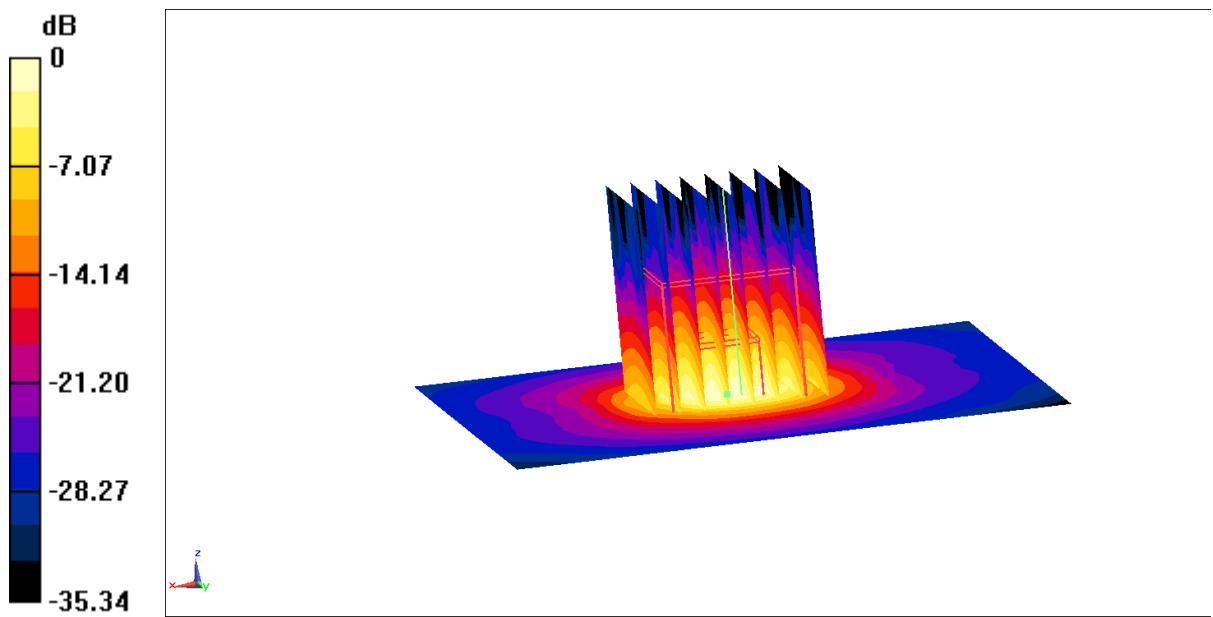
Zoom Scan (4x4x1.4mm, graded), $dist=1.4\text{mm}$ (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 67.11 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.28 W/kg

Maximum value of SAR (measured) = 18.5 W/kg



0 dB = 18.7 W/kg = 12.72 dBW/kg

5250MHz

Date: 2024-09-25

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.559$ S/m; $\epsilon_r = 36.17$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 5250 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(5.45, 5.45, 5.45)

Area Scan (91x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 18.1 W/kg

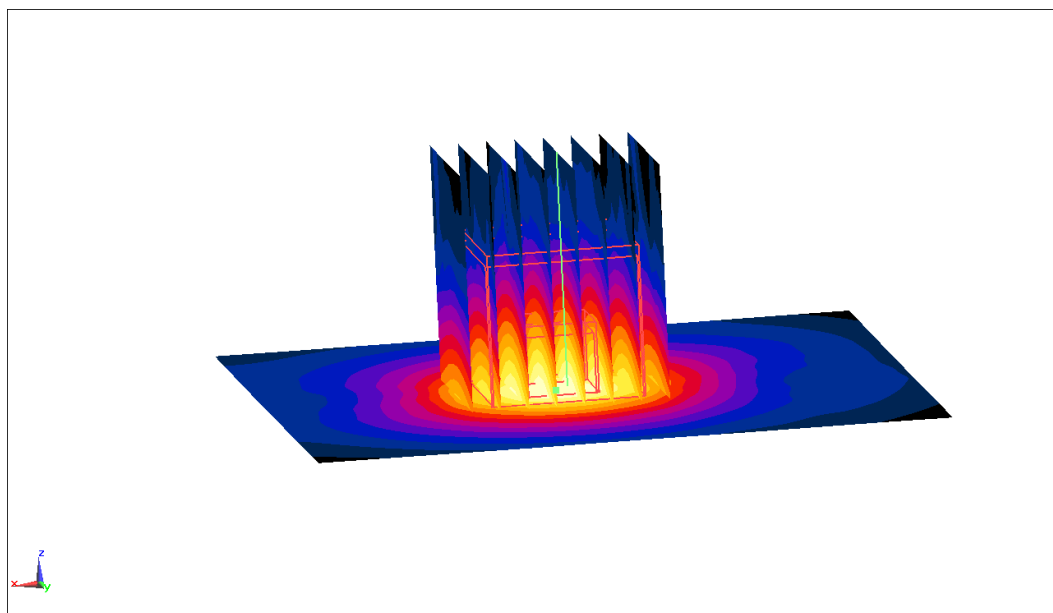
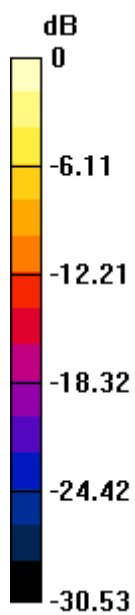
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 65.67 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 31.6 W/kg

SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 17.9 W/kg



0 dB = 18.0 W/kg = 12.55 dBW/kg

5600MHz

Date: 2024-09-23

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.98$ S/m; $\epsilon_r = 35.77$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(4.75, 4.75, 4.75)

Area Scan (91x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 19.9 W/kg

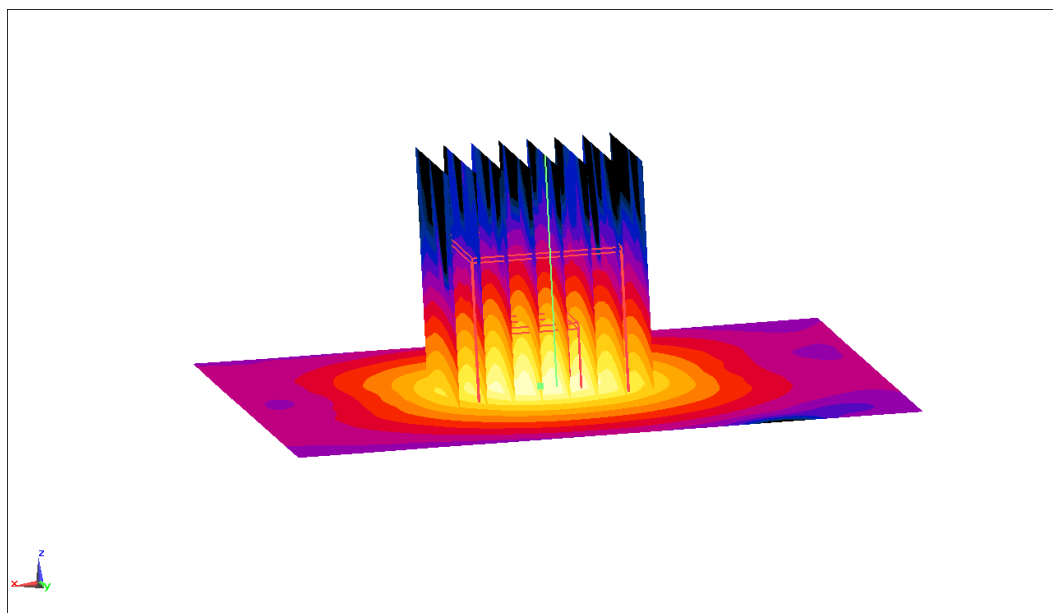
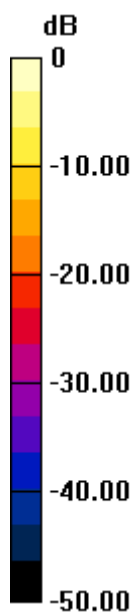
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 67.15 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 36.1 W/kg

SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.34 W/kg

Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

5600MHz

Date: 2024-09-25

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.95$ S/m; $\epsilon_r = 35.56$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(4.75, 4.75, 4.75)

Area Scan (91x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 19.8 W/kg

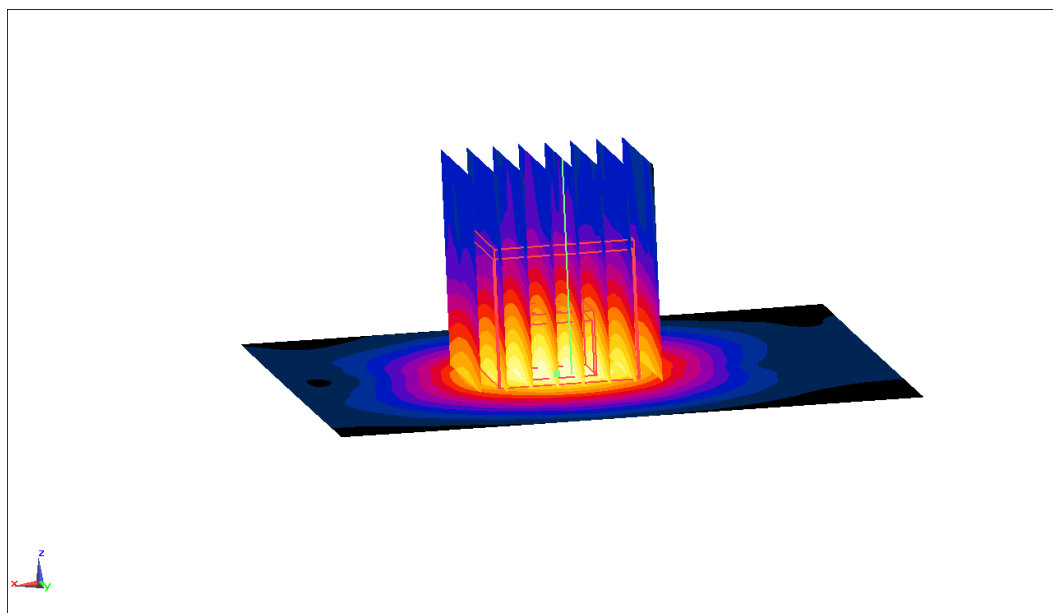
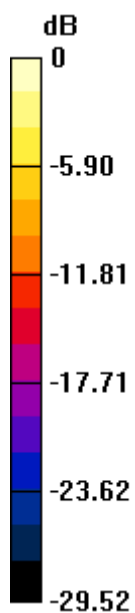
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 66.59 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 35.8 W/kg

SAR(1 g) = 8.13 W/kg; SAR(10 g) = 2.32 W/kg

Maximum value of SAR (measured) = 19.2 W/kg



0 dB = 19.8 W/kg = 12.97 dBW/kg

5750MHz

Date: 2024-09-23

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.151$ S/m; $\epsilon_r = 35.56$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 5750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(4.9, 4.9, 4.9)

Area Scan (91x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 19.5 W/kg

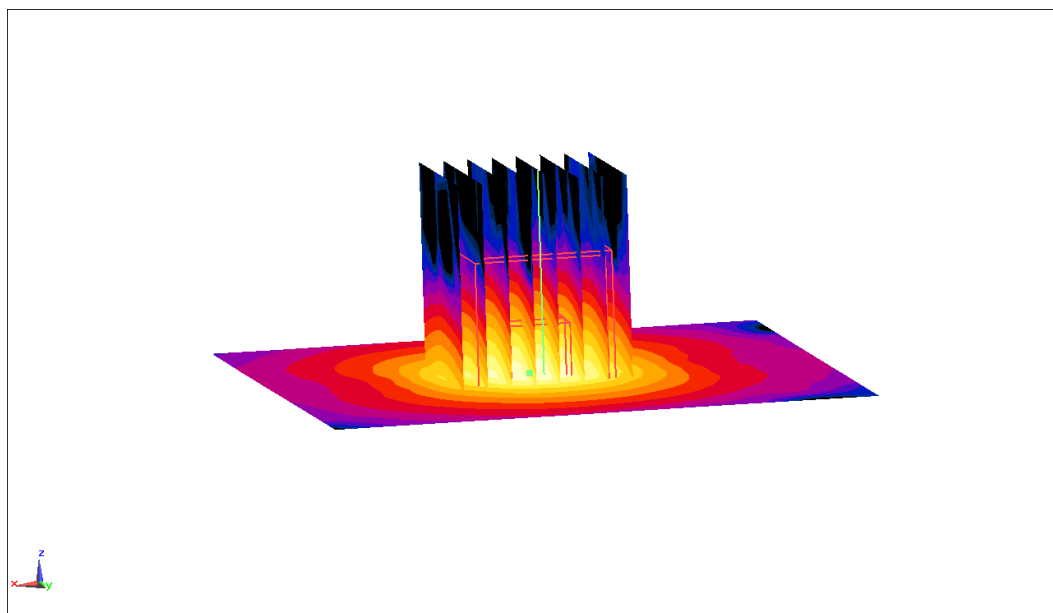
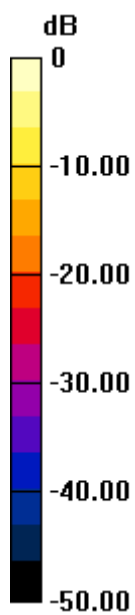
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 65.35 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 36.9 W/kg

SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.24 W/kg

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.4 W/kg = 12.88 dBW/kg

5750MHz

Date: 2024-09-25

Electronics: DAE4 Sn1807

Medium: H700-6000M

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.12$ S/m; $\epsilon_r = 35.35$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: CW (0) Frequency: 5750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(4.9, 4.9, 4.9)

Area Scan (91x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 19.4 W/kg

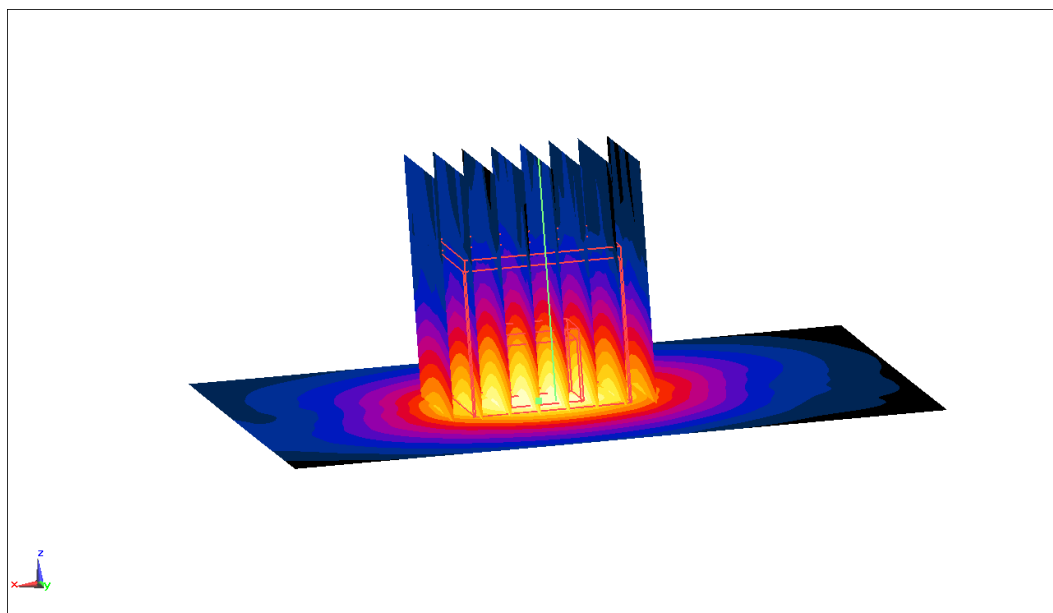
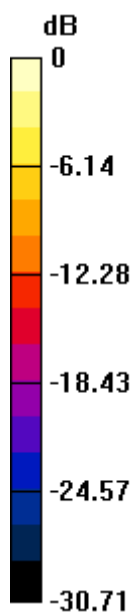
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 64.91 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 36.8 W/kg

SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.27 W/kg

Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.3 W/kg = 12.86 dBW/kg

6.5GHz

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	20.0 x 20.0 x 8.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, -	EDGE TOP, 5.00	Validation band	CW, 0--	6500.000, 6500	5.18	6.22	33.2

Hardware Setup

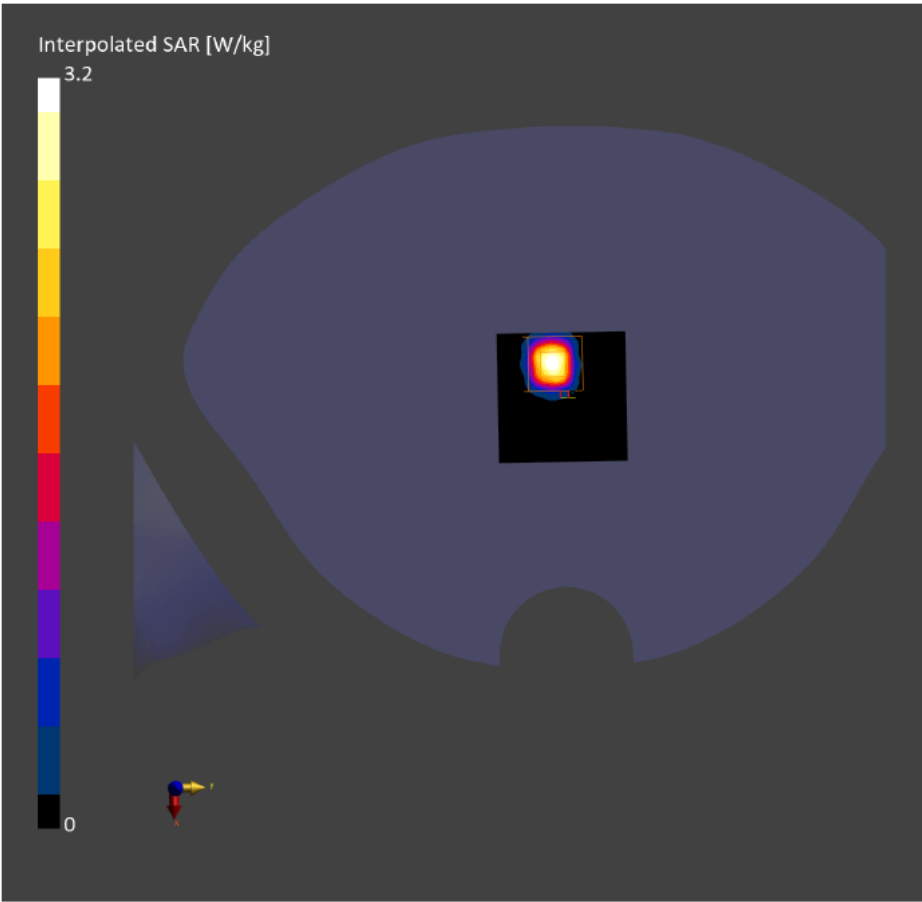
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg probe tilt) - xxxx	H650-7000M	EX3DV4 - SN7464, 2024-01-22	DAE4 Sn1556, 2024-01-03

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 51.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-09-27, 17:02	2024-09-27, 17:19
psSAR1g [W/Kg]	2.37	28.6
psSAR10g [W/Kg]	0.604	5.16
Power Drift [dB]	0.06	0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		4.6



13MHz

Date: 9/30/2024

Electronics: DAE4 Sn1524

Medium: 13M

Medium parameters used: $f = 13 \text{ MHz}$; $\sigma = 0.716 \text{ S/m}$; $\epsilon_r = 52.35$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, CW (0) Frequency: 13 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7464 ConvF(17.62, 17.62, 17.62)

Area Scan (101x111x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.194 W/kg

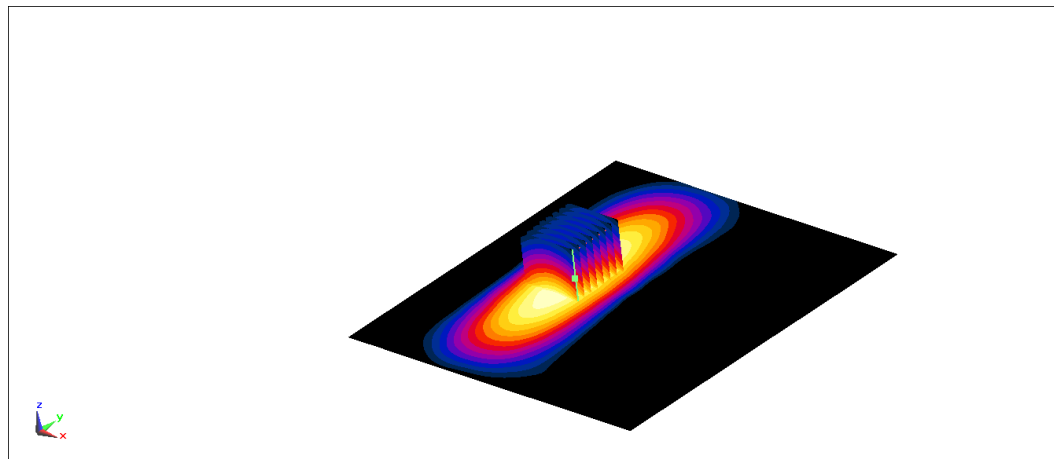
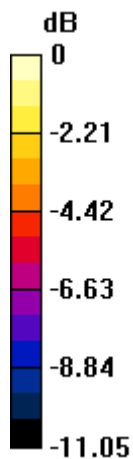
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 4.005 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.274 W/kg

SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.322 W/kg

Maximum value of SAR (measured) = 0.187 W/kg



$$0 \text{ dB} = 0.187 \text{ W/kg} = -7.28 \text{ dBW/kg}$$

10GHz

Measurement Report for Device, FRONT, Validation band, CW, Channel 10000 (10000.0 MHz)

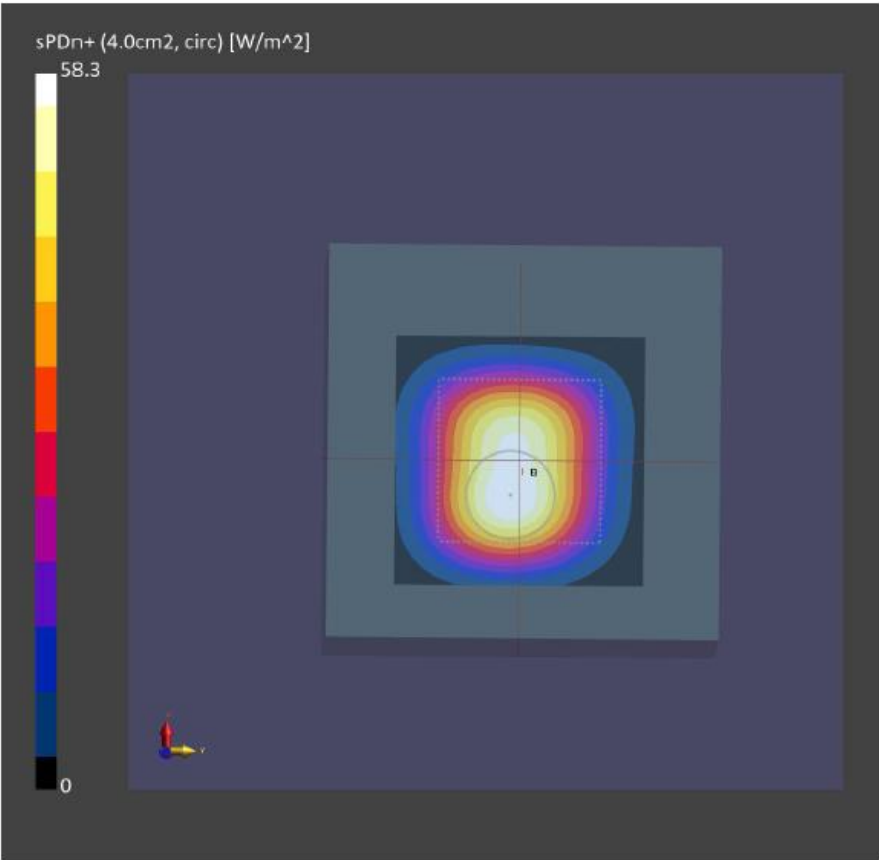
Device Under Test Properties			
Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	100.0 x 100.0 x 100.0		Phone

Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 2.00	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - xxxx	Air -	EUmmWV4 - SN9492_F1-55GHz, 2024-05-28	DAE4 Sn1556, 2024-01-03

Scans Setup	
Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.06808848581238543 x 0.06808848581238543
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2024-10-01, 12:43
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	58.3
psPDtot+ [W/m2]	58.4
psPDmod+ [W/m2]	58.8
E _{max} [V/m]	159
Power Drift [dB]	0.01



- A standard high precision 6-axis robot (Stäubli TX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY5 or DASY8 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

C.2 Dasy5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY5 or DASY8 software reads the reflection during a software approach and looks for the maximum using 2nd curve fitting. The approach is stopped at reaching the maximum.

Probe Specifications:

Model: EX3DV4
Frequency 10MHz — 6.0GHz(EX3DV4)
Range:
Calibration: In head and body simulating tissue at
Frequencies from 835 up to 5800MHz
Linearity: ± 0.2 dB(30 MHz to 6 GHz) for EX3DV4

DynamicRange: 10 mW/kg — 100W/kg

Probe Length: 330 mm

Probe Tip

Length: 20 mm

Body Diameter: 12 mm

Tip Diameter: 2.5 mm

Tip-Center: 1 mm

Application:SAR Dosimetry Testing

Compliance tests ofmobile phones

Dosimetry in strong gradient fields



Picture C.2Near-field Probe



Picture C.3E-field Probe

C.3 E-field Probe Calibration

Each E-Probe/Probe Amplifier combination has unique calibration parameters. A TEM cell calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an RF Signal generator, TEM cell, and RF Power Meter.

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees until the three channels show the maximum reading. The power density readings equate to 1 mW/cm².

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:

Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

ΔT = Temperature increase due to RF exposure.

$$SAR = \frac{|E|^2 \cdot \sigma}{\rho}$$

Where:

σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m³).

C.4 Other Test Equipment

C.4.1 Data Acquisition Electronics(DAE)

The data acquisition electronics consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



PictureC.4: DAE

C.4.2 Robot

The SPEAG DASY system uses the high precision robots (DASY5: RX160L; DASY8: TX2-90XL spe) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchron motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)



Picture C.5 DASY 5



Picture C.6 DASY 8

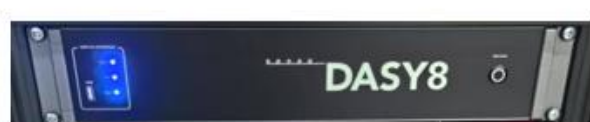
C.4.3 Measurement Server

The Measurement server is based on a PC/104 CPU board with CPU (DASY5/DASY8: 400 MHz, Intel Celeron), chipdisk (DASY5/DASY8: 128MB), RAM (DASY5/DASY8: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.



Picture C.7 Server for DASY 5



Picture C.8 Server for DASY 8

C.4.4 Device Holder for Phantom

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5mm distance, a positioning uncertainty of $\pm 0.5\text{mm}$ would produce a SAR uncertainty of $\pm 20\%$. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-loss

POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

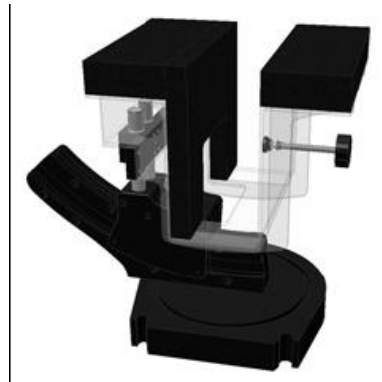
The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

<Laptop Extension Kit>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin-SAM and ELI phantoms.



Picture C.9: Device Holder



Picture C.10: Laptop Extension Kit

C.4.5 Phantom

The SAM Twin Phantom V4.0 is constructed of a fiberglass shell integrated in a table. The shape of the shell is based on data from an anatomical study designed to represent the 90th percentile of the population. The phantom enables the dissymmetric evaluation of SAR for both left and right handed handset usage, as well as body-worn usage using the flat phantom region. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. The shell phantom has a 2mm shell thickness (except the ear region where shell thickness increases to 6 mm).

Shell Thickness: 2 ± 0.2 mm

Filling Volume: Approx. 25 liters

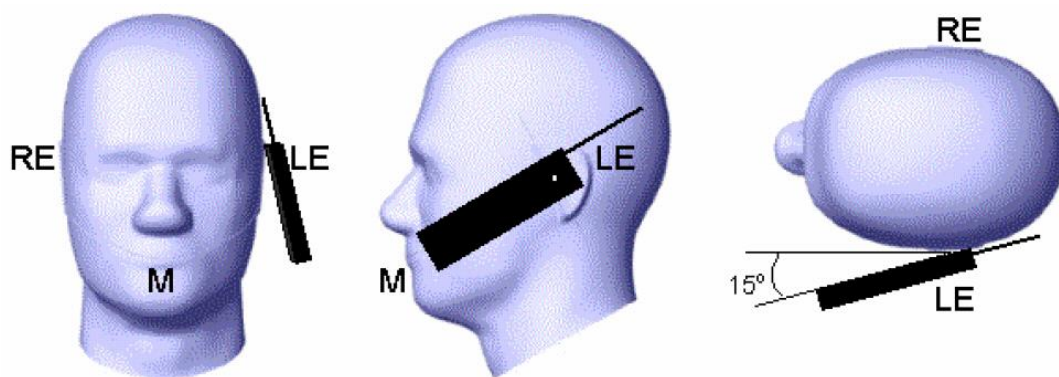
Dimensions: 810 x 1000 x 500 mm (H x L x W)

Available: Special



Picture C.11: SAM Twin Phantom

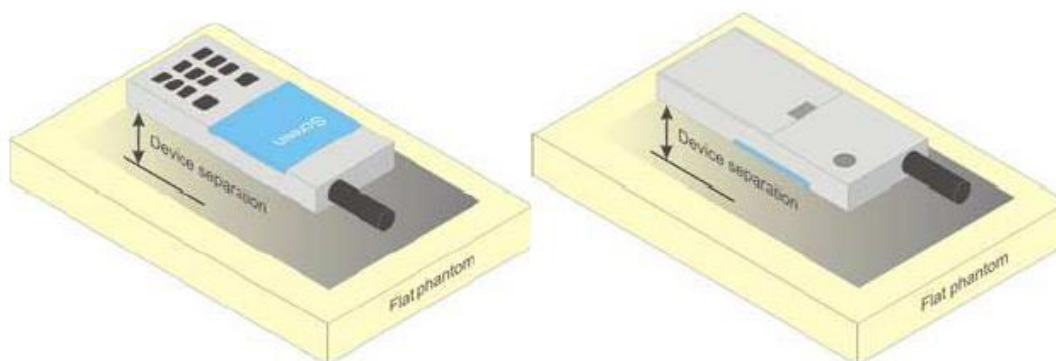
Picture D.2 Cheek position of the wireless device on the left side of SAM



Picture D.3 Tilt position of the wireless device on the left side of SAM

D.2 Body-worn device

A typical example of a body-worn device is a mobile phone, wireless enabled PDA or other battery operated wireless device with the ability to transmit while mounted on a person's body using a carry accessory approved by the wireless device manufacturer.

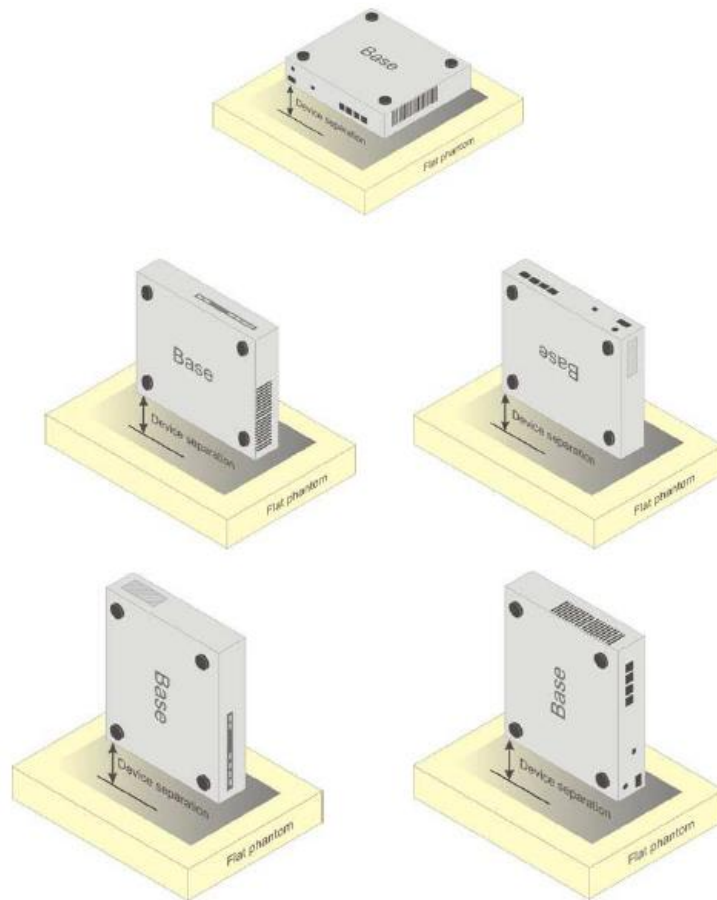


Picture D.4 Test positions for body-worn devices

D.3 Desktop device

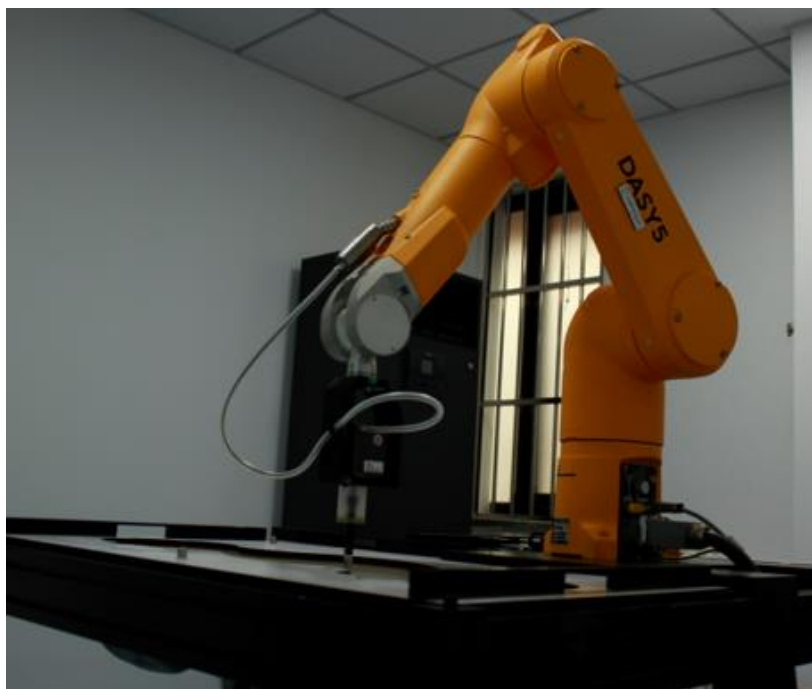
A typical example of a desktop device is a wireless enabled desktop computer placed on a table or desk when used.

The DUT shall be positioned at the distance and in the orientation to the phantom that corresponds to the intended use as specified by the manufacturer in the user instructions. For devices that employ an external antenna with variable positions, tests shall be performed for all antenna positions specified. Picture 8.5 shows positions for desktop device SAR tests. If the intended use is not specified, the device shall be tested directly against the flat phantom.



Picture D.5 Test positions for desktop devices

D.4 DUT Setup Photos



Picture D.6

ANNEX E Equivalent Media Recipes

The liquid used for the frequency range of 800-3000 MHz consisted of water, sugar, salt, preventol, glycol monobutyl and Cellulose. The liquid has been previously proven to be suited for worst-case. The Table E.1 shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209.

TableE.1: Composition of the Tissue Equivalent Matter

Frequency (MHz)	835Head	835Body	1900 Head	1900 Body	2450 Head	2450 Body	5800 Head	5800 Body
Ingredients (% by weight)								
Water	41.45	52.5	55.242	69.91	58.79	72.60	65.53	65.53
Sugar	56.0	45.0	\	\	\	\	\	\
Salt	1.45	1.4	0.306	0.13	0.06	0.18	\	\
Preventol	0.1	0.1	\	\	\	\	\	\
Cellulose	1.0	1.0	\	\	\	\	\	\
Glycol Monobutyl	\	\	44.452	29.96	41.15	27.22	\	\
Diethylenglycol monohexylether	\	\	\	\	\	\	17.24	17.24
Triton X-100	\	\	\	\	\	\	17.24	17.24
Dielectric Parameters Target Value	$\epsilon=41.5$ $\sigma=0.90$	$\epsilon=55.2$ $\sigma=0.97$	$\epsilon=40.0$ $\sigma=1.4$ 0	$\epsilon=53.3$ $\sigma=1.5$ 2	$\epsilon=39.2$ $\sigma=1.8$ 0	$\epsilon=52.7$ $\sigma=1.9$ 5	$\epsilon=35.3$ $\sigma=5.2$ 7	$\epsilon=48.2$ $\sigma=6.0$ 0

Note: There are a little adjustment respectively for 750, 1750, 2600, 5200, 5300 and 5600 based on the recipe of closest frequency in table E.1.

ANNEX F System Validation

The SAR system must be validated against its performance specifications before it is deployed. When SAR probes, system components or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such components.

Table F.1: System Validation for 7464

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
7464	Head 13MHz	February 26,2024	13MHz	OK
7464	Head 64MHz	February 26,2024	64MHz	OK
7464	Head 150MHz	February 26,2024	150MHz	OK
7464	Head 300MHz	February 26,2024	300MHz	OK
7464	Head 450MHz	February 26,2024	450MHz	OK
7464	Head 750MHz	February 26,2024	750MHz	OK
7464	Head 835MHz	February 26,2024	835MHz	OK
7464	Head 900MHz	February 26,2024	900MHz	OK
7464	Head 1450MHz	February 26,2024	1450MHz	OK
7464	Head 1640MHz	February 26,2024	1640MHz	OK
7464	Head 1750MHz	February 26,2024	1750MHz	OK
7464	Head 1810MHz	February 26,2024	1810MHz	OK
7464	Head 1900MHz	February 26,2024	1900MHz	OK
7464	Head 2000MHz	February 27,2024	2000MHz	OK
7464	Head 2100MHz	February 27,2024	2100MHz	OK
7464	Head 2300MHz	February 27,2024	2300MHz	OK
7464	Head 2450MHz	February 27,2024	2450MHz	OK
7464	Head 2600MHz	February 27,2024	2600MHz	OK
7464	Head 3300MHz	February 28,2024	3300MHz	OK
7464	Head 3500MHz	February 28,2024	3500MHz	OK
7464	Head 3700MHz	February 28,2024	3700MHz	OK
7464	Head 3900MHz	February 28,2024	3900MHz	OK
7464	Head 4100MHz	February 28,2024	4100MHz	OK
7464	Head 4200MHz	February 28,2024	4200MHz	OK
7464	Head 4400MHz	February 28,2024	4400MHz	OK
7464	Head 4600MHz	February 28,2024	4600MHz	OK
7464	Head 4800MHz	February 28,2024	4800MHz	OK
7464	Head 4950MHz	February 28,2024	4950MHz	OK
7464	Head 5200MHz	February 29,2024	5200MHz	OK
7464	Head 5250MHz	February 29,2024	5250MHz	OK
7464	Head 5300MHz	February 29,2024	5300MHz	OK
7464	Head 5500MHz	February 29,2024	5500MHz	OK
7464	Head 5600MHz	February 29,2024	5600MHz	OK
7464	Head 5750MHz	February 29,2024	5750MHz	OK
7464	Head 5800MHz	February 29,2024	5800MHz	OK
7464	Head 6500MHz	March 01,2024	6500MHz	OK
7464	Head 7000MHz	March 01,2024	7000MHz	OK

Table F.1: System Validation for 3846

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
3846	Head 750MHz	July 20,2024	750MHz	OK
3846	Head 900MHz	July 20,2024	900MHz	OK
3846	Head 1450MHz	July 20,2024	1450MHz	OK
3846	Head 1750MHz	July 20,2024	1750MHz	OK
3846	Head 1900MHz	July 20,2024	1900MHz	OK
3846	Head 2100MHz	July 21,2024	2100MHz	OK
3846	Head 2300MHz	July 21,2024	2300MHz	OK
3846	Head 2450MHz	July 21,2024	2450MHz	OK
3846	Head 2600MHz	July 21,2024	2600MHz	OK
3846	Head 3300MHz	July 22,2024	3300MHz	OK
3846	Head 3500MHz	July 22,2024	3500MHz	OK
3846	Head 3700MHz	July 22,2024	3700MHz	OK
3846	Head 3900MHz	July 22,2024	3900MHz	OK
3846	Head 4100MHz	July 22,2024	4100MHz	OK
3846	Head 4200MHz	July 22,2024	4200MHz	OK
3846	Head 4400MHz	July 22,2024	4400MHz	OK
3846	Head 4600MHz	July 22,2024	4600MHz	OK
3846	Head 4800MHz	July 22,2024	4800MHz	OK
3846	Head 4950MHz	July 22,2024	4950MHz	OK
3846	Head 5250MHz	July 23,2024	5250MHz	OK
3846	Head 5600MHz	July 23,2024	5600MHz	OK
3846	Head 5750MHz	July 23,2024	5750MHz	OK

Table F.1: System Validation for 7673

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
7673	Head 750MHz	July.30,2024	750 MHz	OK
7673	Head 900MHz	July.30,2024	900 MHz	OK
7673	Head 1750MHz	July.30,2024	1750 MHz	OK
7673	Head 1900MHz	July.30,2024	1900 MHz	OK
7673	Head 2000MHz	July.30,2024	2000 MHz	OK
7673	Head 2300MHz	July.30,2024	2300 MHz	OK
7673	Head 2450MHz	July.30,2024	2450 MHz	OK
7673	Head 2600MHz	July.30,2024	2600 MHz	OK
7673	Head 3500MHz	July.30,2024	3500 MHz	OK
7673	Head 3700MHz	July.30,2024	3700 MHz	OK
7673	Head 5250MHz	July.30,2024	5250 MHz	OK
7673	Head 5600MHz	July.30,2024	5600 MHz	OK
7673	Head 5750MHz	July.30,2024	5750 MHz	OK

Table F.3: System Validation for 7517

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
7517	Head 750MHz	March 09,2024	750 MHz	OK
7517	Head 900MHz	March 09,2024	900 MHz	OK
7517	Head 1450MHz	March 09,2024	1450 MHz	OK
7517	Head 1750MHz	March 09,2024	1750 MHz	OK
7517	Head 1900MHz	March 09,2024	1900 MHz	OK
7517	Head 2100MHz	March 09,2024	2100 MHz	OK
7517	Head 2300MHz	March 09,2024	2300 MHz	OK
7517	Head 2450MHz	March 09,2024	2450 MHz	OK
7517	Head 2600MHz	March 09,2024	2600 MHz	OK
7517	Head 3300MHz	March 10,2024	3300 MHz	OK
7517	Head 3500MHz	March 10,2024	3500 MHz	OK
7517	Head 3700MHz	March 10,2024	3700 MHz	OK
7517	Head 3900MHz	March 10,2024	3900 MHz	OK
7517	Head 4100MHz	March 10,2024	4100 MHz	OK
7517	Head 4200MHz	March 10,2024	4200 MHz	OK
7517	Head 4400MHz	March 10,2024	4400 MHz	OK
7517	Head 4600MHz	March 11,2024	4600 MHz	OK
7517	Head 4800MHz	March 11,2024	4800 MHz	OK
7517	Head 4950MHz	March 11,2024	4950 MHz	OK
7517	Head 5250MHz	March 11,2024	5250 MHz	OK
7517	Head 5600MHz	March 11,2024	5600 MHz	OK
7517	Head 5750MHz	March 11,2024	5750 MHz	OK