ANNEX A GRAPH RESULTS

GSM850 Body 5mm ANT0

Date: 2023/8/2

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.884 S/m; εr = 42.627; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: GSM850 3TX (0) Frequency: 848.8 MHz Duty Cycle: 1:2.66993

Probe: EX3DV4 - SN7517 ConvF(9.84, 8.48, 8.98)

Area Scan (161x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.680 W/kg

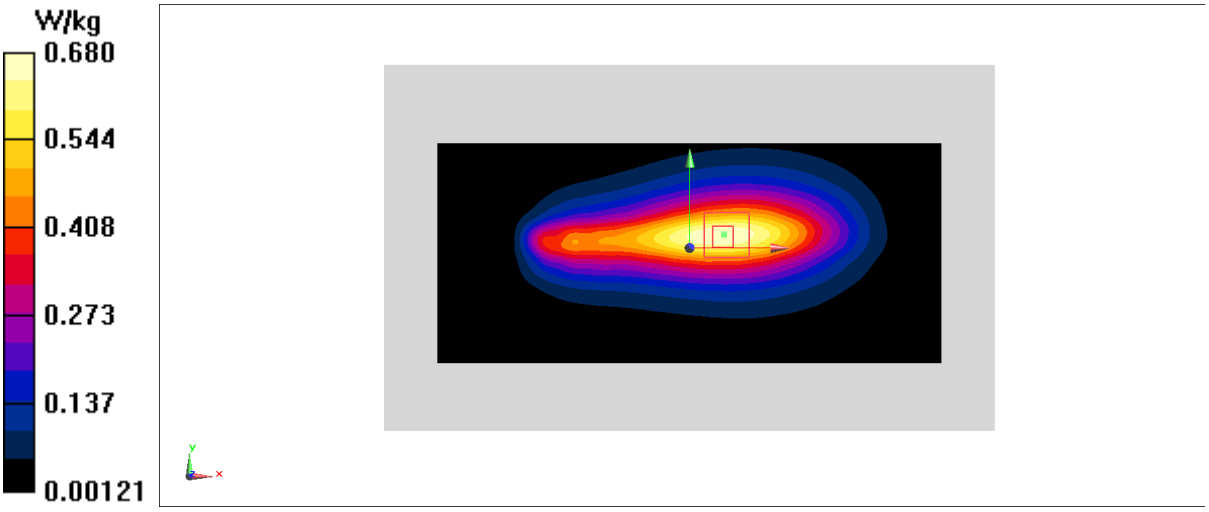
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.95 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.766 W/kg

SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.327 W/kg

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



GSM1900 Body 0mm ANT0

Date: 2023/8/4

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1910 MHz; σ = 1.459 S/m; ε_r = 40.915; ρ = 1000 kg/m^3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: GSM 1900MHz GPRS-2 (0) Frequency: 1909.8 MHz Duty Cycle: 1:4.00037

Probe: EX3DV4 - SN7517 ConvF(8.34, 7.75, 7.97)

Area Scan (181x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.01 W/kg

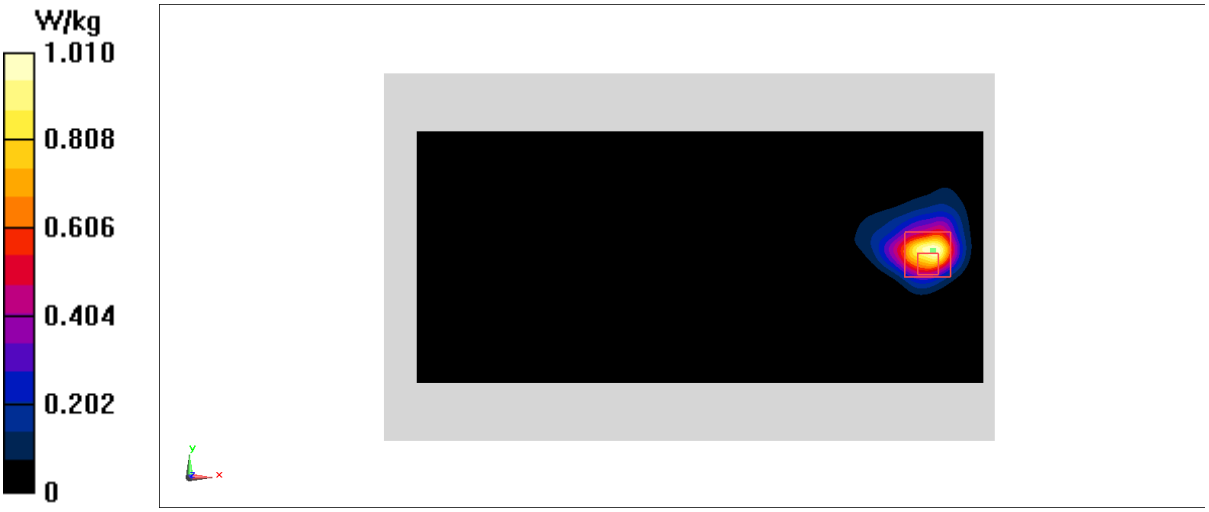
Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.963 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.673 W/kg; SAR(10 g) = 0.262 W/kg

Maximum value of SAR (measured) = 1.56 W/kg



WCDMA1900 Body 20mm ANT0

Date: 2023/8/4

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1880 MHz; σ = 1.442 S/m; εr = 40.953; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: WCDMA 1900 (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.34, 7.75, 7.97)

Area Scan (181x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.938 W/kg

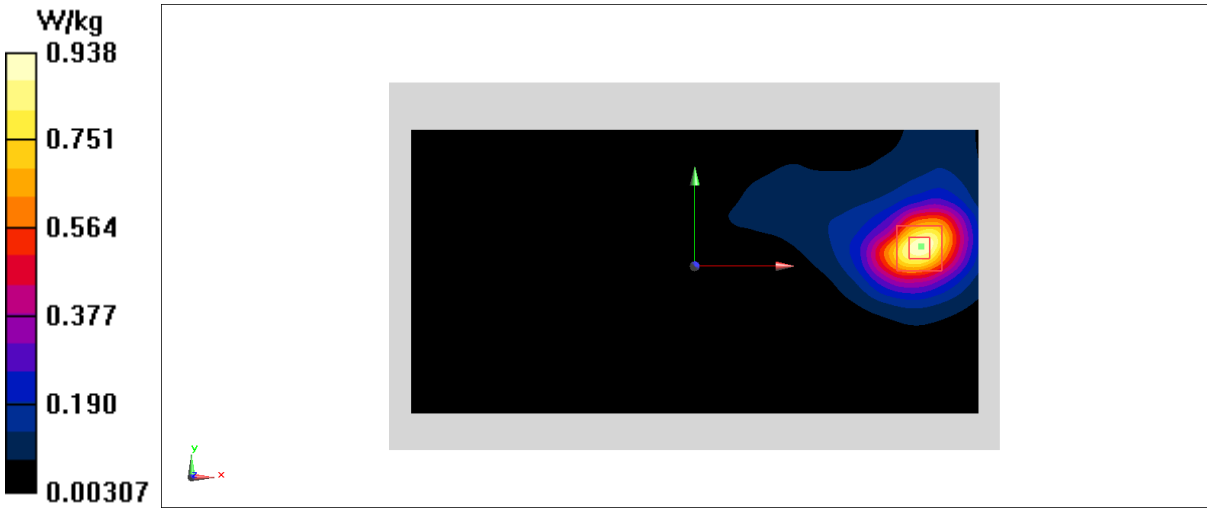
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.688 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.368 W/kg

Maximum value of SAR (measured) = 0.923 W/kg



WCDMA1700 Body 0mm ANT0

Date: 2023/7/29

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.389 S/m; εr = 41.254; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: WCDMA1700(B4) (0) Frequency: 1712.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.43, 7.84, 8.08)

Area Scan (131x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.830 W/kg

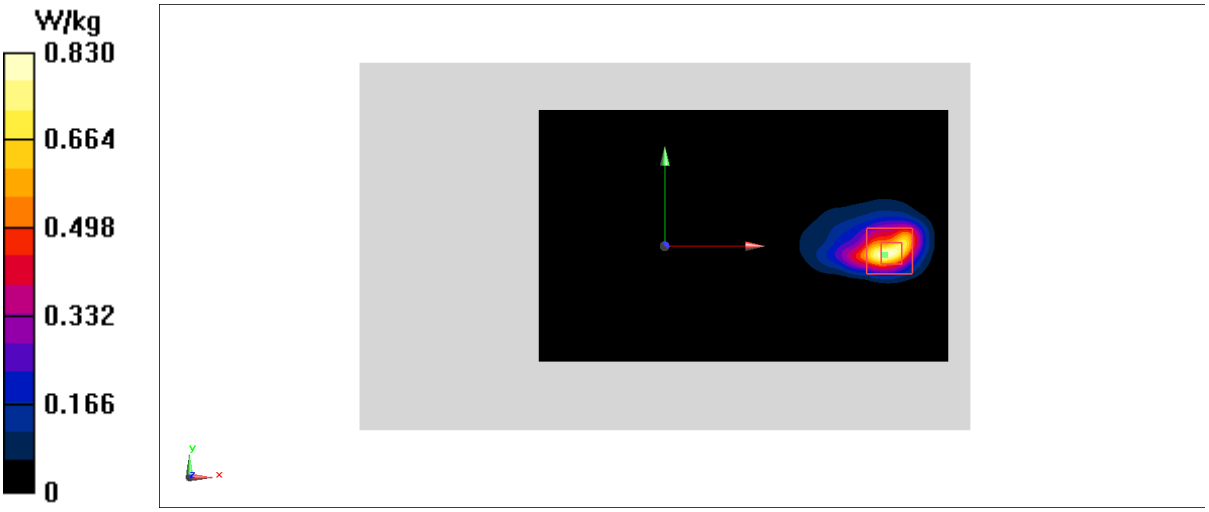
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.251 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.238 W/kg

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



WCDMA850 Body 0mm ANT0

Date: 2023/8/2

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.879 S/m; εr = 42.694; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: WCDMA850(B5) (0) Frequency: 836.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.84, 8.48, 8.98)

Area Scan (181x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

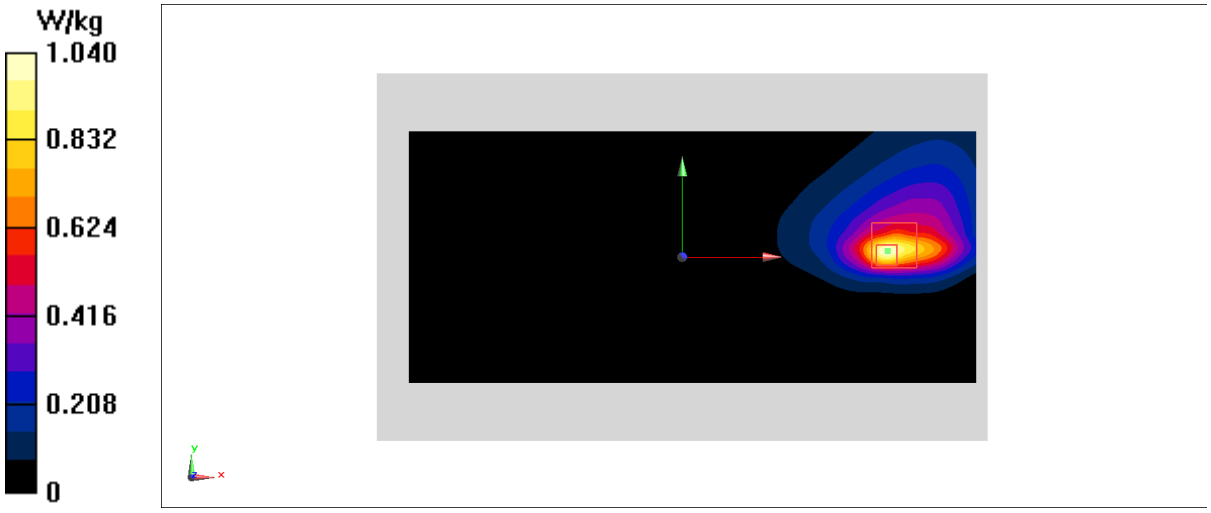
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.589 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.540 W/kg; SAR(10 g) = 0.315 W/kg

Maximum value of SAR (measured) = 0.809 W/kg



LTE Band2 Body 0mm ANT0

Date: 2023/8/4

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1900 MHz; σ = 1.453 S/m; εr = 40.93; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: LTE Band2(20MB) (0) Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.34, 7.75, 7.97)

Area Scan (191x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

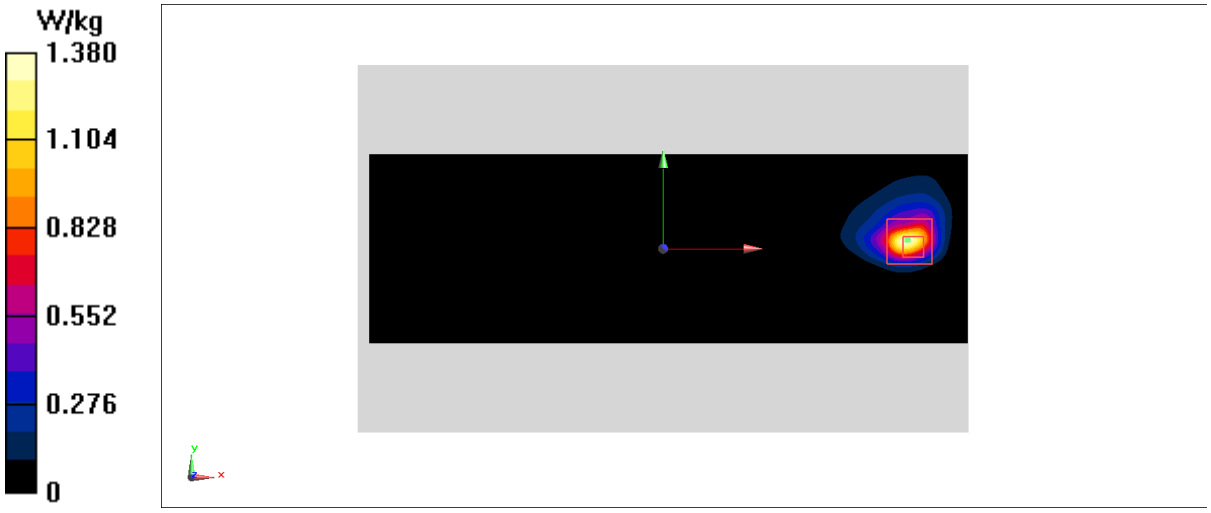
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.5700 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.209 W/kg

Maximum value of SAR (measured) = 0.887 W/kg



LTE Band4 Body 0mm ANT0

Date: 2023/7/29

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1745 MHz; σ = 1.409 S/m; εr = 41.215; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: LTE Band4 (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.43, 7.84, 8.08)

Area Scan (191x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.44 W/kg

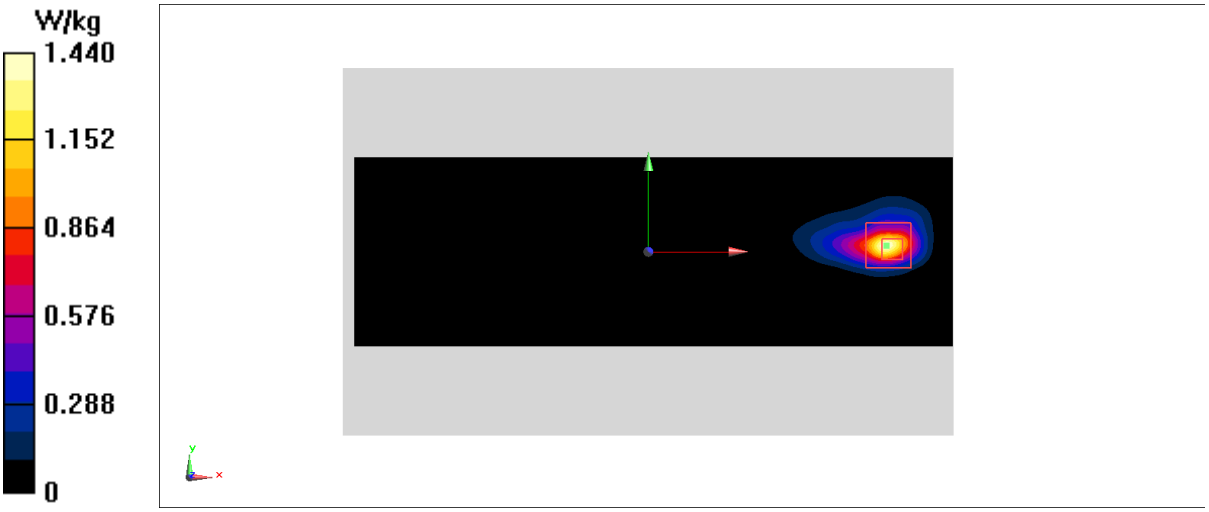
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.1020 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.552 W/kg; SAR(10 g) = 0.245 W/kg

Maximum value of SAR (measured) = 0.935 W/kg



LTE Band4 Body 10mm ANT4

Date: 2023/7/29

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.402 S/m; εr = 41.225; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: LTE Band4 (0) Frequency: 1732.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.43, 7.84, 8.08)

Area Scan (101x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.682 W/kg

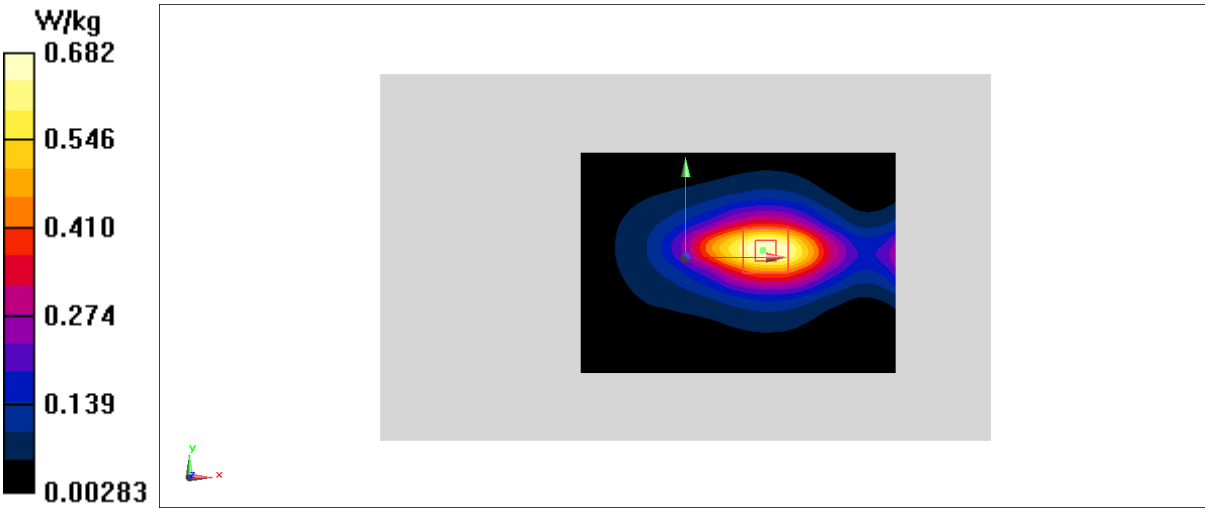
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.96 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.779 W/kg

SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 0.669 W/kg



LTE Band7 Body 0mm ANT1

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 2535 MHz; σ = 1.97 S/m; εr = 40.71; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 – SN7548 ConvF(7.32, 7.32, 7.32)

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

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

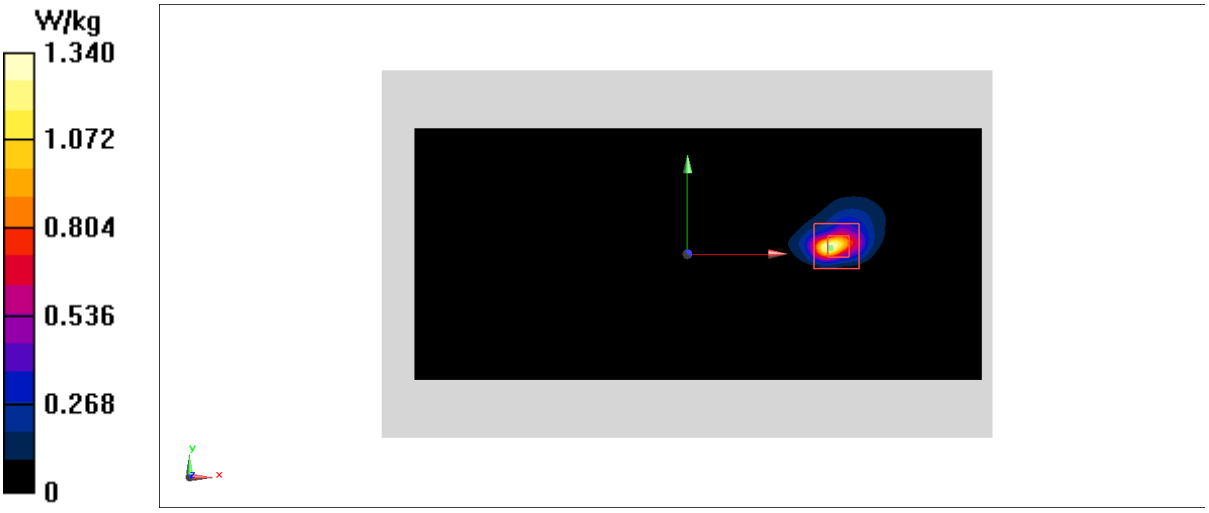
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.563 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.207 W/kg

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



LTE Band7 Body 19mm ANT4

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 2535 MHz; σ = 1.97 S/m; εr = 40.71; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 – SN7548 ConvF(7.32, 7.32, 7.32)

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

Maximum value of SAR (interpolated) = 0.833 W/kg

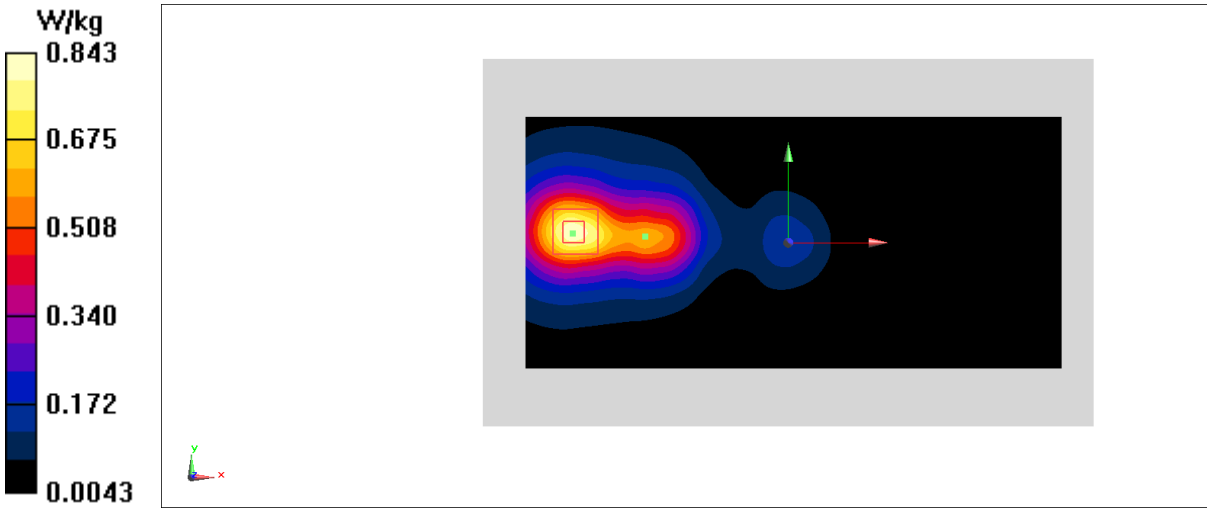
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.945 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.295 W/kg

Maximum value of SAR (measured) = 0.843 W/kg



LTE Band12 Body 0mm ANT0

Date: 2023/7/17

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 705 MHz; σ = 0.879 S/m; εr = 43.352; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: LTE Band12 (0) Frequency: 707.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(9.39, 8.81, 9.17)

Area Scan (191x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.880 W/kg

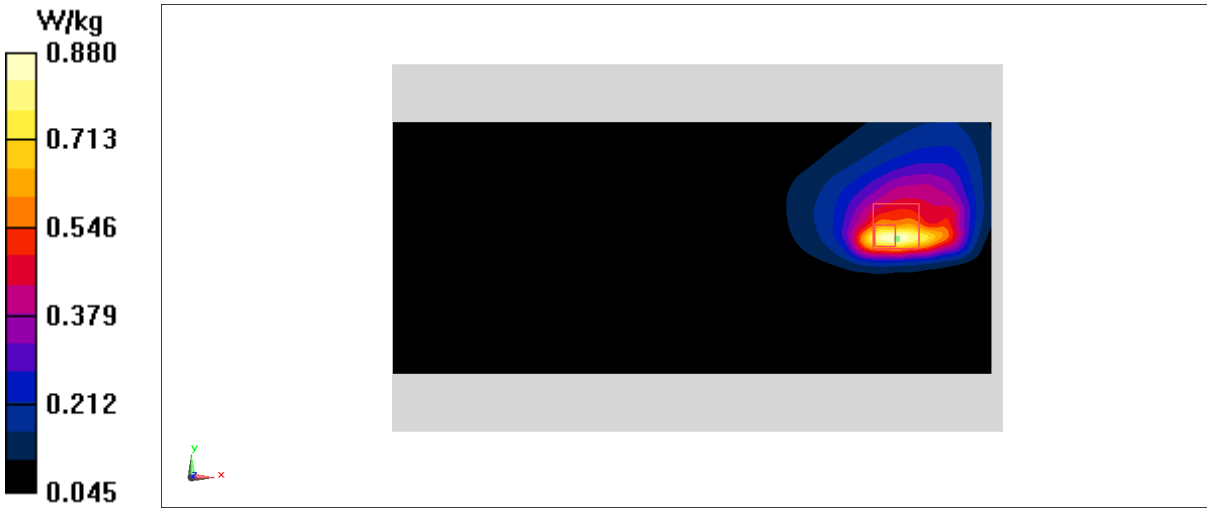
Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.125 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.337 W/kg

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



LTE Band13 Body 0mm ANT0

Date: 2023/7/17

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 780 MHz; σ = 0.907 S/m; εr = 43.024; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7517 ConvF(9.39, 8.81, 9.17)

Area Scan (191x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.954 W/kg

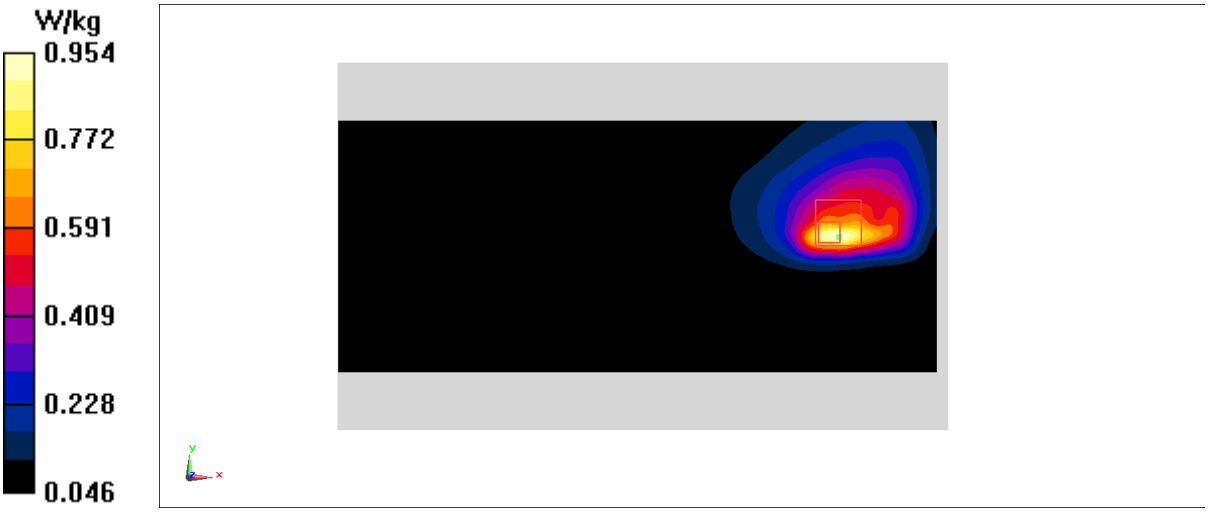
Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.093 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.370 W/kg

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



LTE Band26 Body 0mm ANT0

Date: 2023/8/2

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 830 MHz; σ = 0.875 S/m; εr = 42.763; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7517 ConvF(9.84, 8.48, 8.98)

Area Scan (191x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.734 W/kg

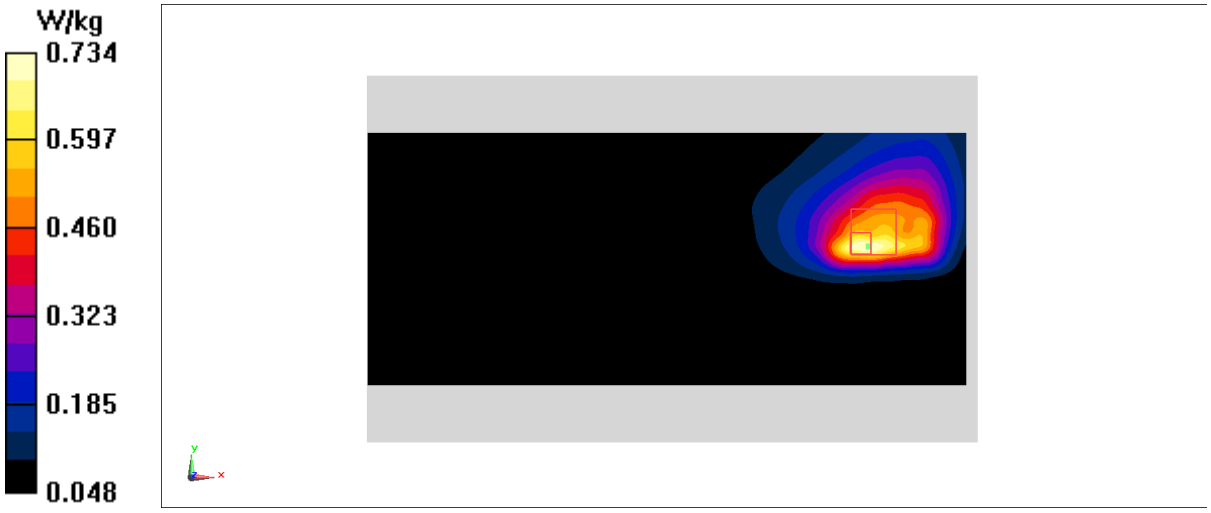
Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.097 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.534 W/kg; SAR(10 g) = 0.331 W/kg

Maximum value of SAR (measured) = 0.864 W/kg



LTE Band38 Body 20mm ANT1

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 2595 MHz; σ = 2.024 S/m; εr = 40.61; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: LTE Band38 20M (0) Frequency: 2595 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 – SN7548 ConvF(7.12, 7.12, 7.12)

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

Maximum value of SAR (interpolated) = 0.626 W/kg

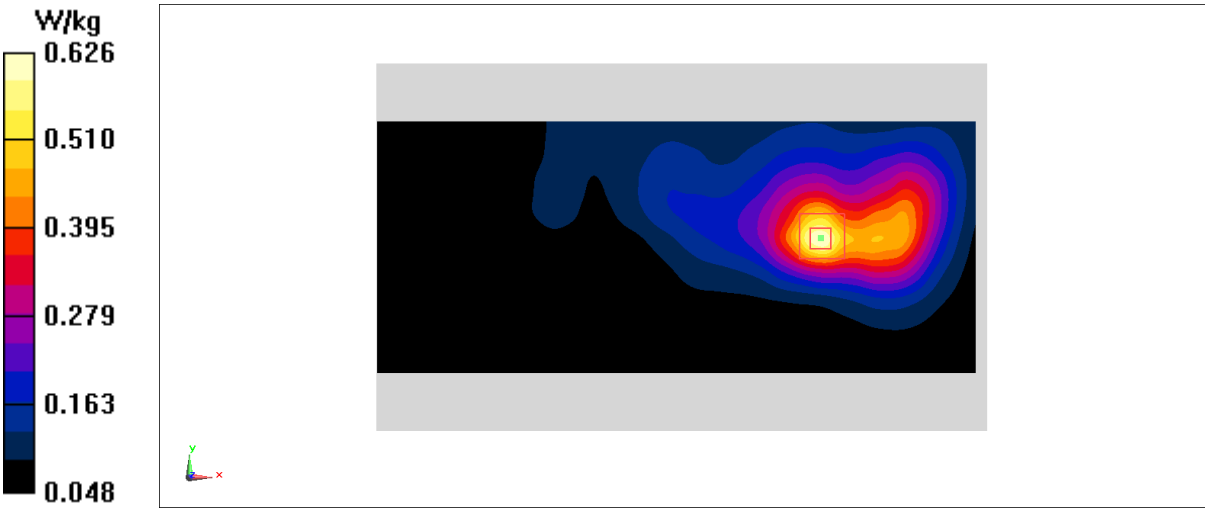
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.332 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.818 W/kg

SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.256 W/kg

Maximum value of SAR (measured) = 0.663 W/kg



LTE Band38 Body 19mm ANT4

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 2610 MHz; σ = 2.035 S/m; εr = 40.59; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: UID 0, LTE Band38 20M (0) Frequency: 2610 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 – SN7548 ConvF(7.12, 7.12, 7.12)

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

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

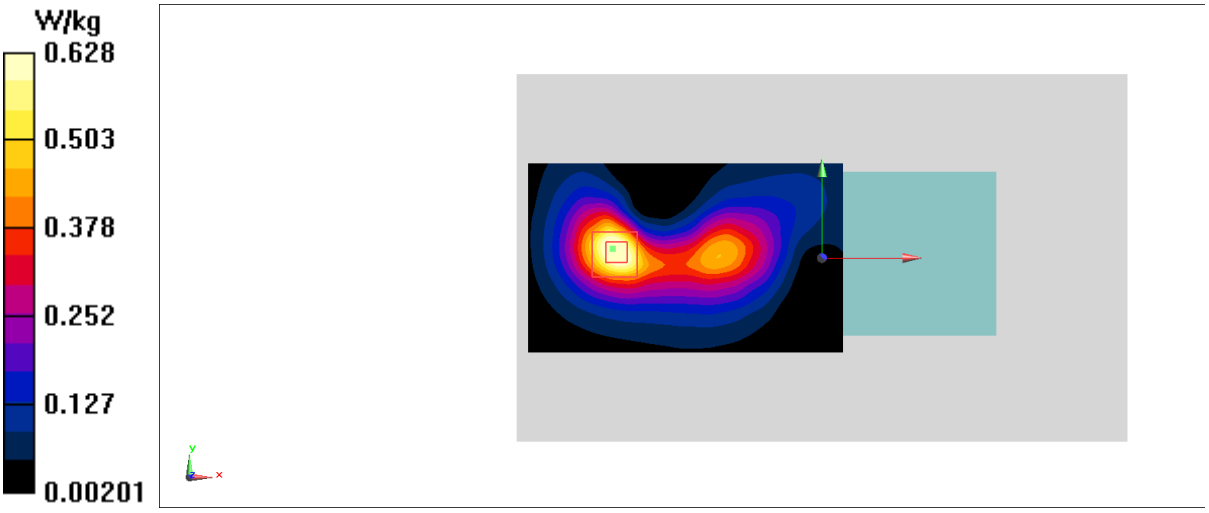
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.180 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.801 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 0.628 W/kg



LTE Band41 Body 0mm ANT1

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 2550 MHz; σ = 1.983 S/m; εr = 40.659; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: LTE Band41 PC2 (0) Frequency: 2549.5 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 – SN7548 ConvF(7.32, 7.32, 7.32)

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

Maximum value of SAR (interpolated) = 0.616 W/kg

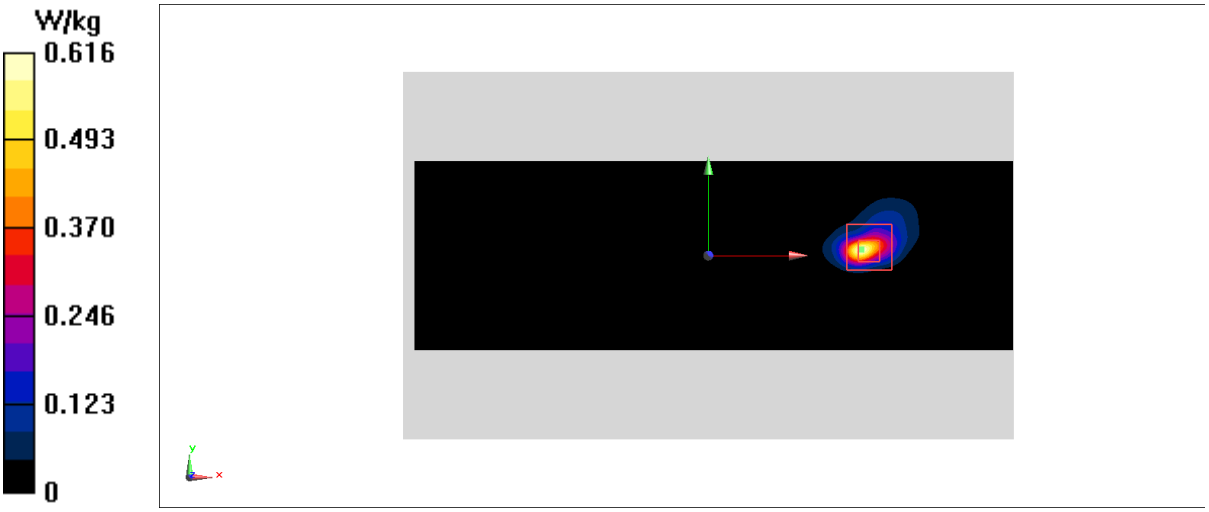
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.981 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.763 W/kg

SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.093 W/kg

Maximum value of SAR (measured) = 0.471 W/kg



LTE Band41 Body 0mm ANT4

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): f = 2593 MHz; σ = 2.024 S/m; εr = 40.61; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: LTE Band41 PC2 (0) Frequency: 2593 MHz Duty Cycle: 1:1.5787

Probe: EX3DV4 – SN7548 ConvF(7.12, 7.12, 7.12)

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

Maximum value of SAR (interpolated) = 0.588 W/kg

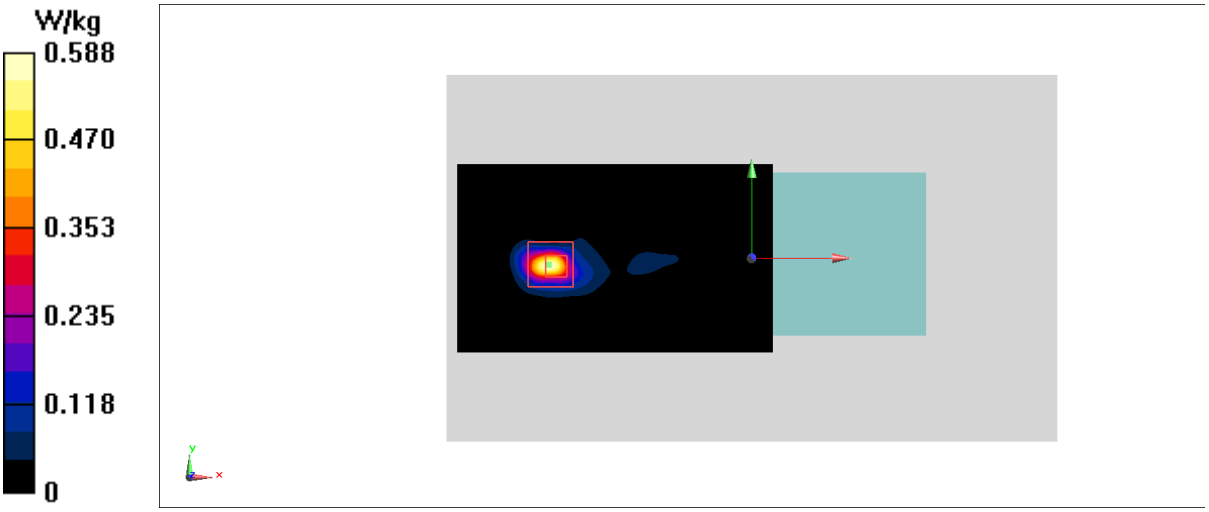
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.012 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.858 W/kg

SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.116 W/kg

Maximum value of SAR (measured) = 0.570 W/kg



LTE Band66 Body 0mm ANT0

Date: 2023/8/14

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1770 MHz; σ = 1.414 S/m; εr = 40.328; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: LTE Band66 (0) Frequency: 1770 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.43, 7.84, 8.08)

Area Scan (191x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.62 W/kg

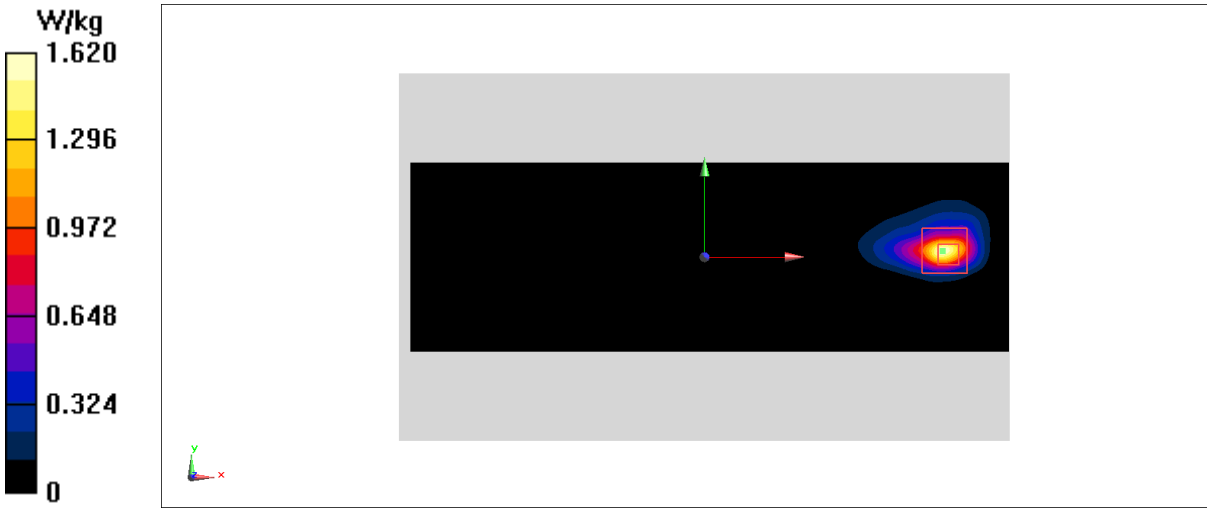
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.6000 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.265 W/kg

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



LTE Band66 Body 10mm ANT4

Date: 2023/8/14

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1745 MHz; σ = 1.395 S/m; εr = 40.366; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7517 ConvF(8.43, 7.84, 8.08)

Area Scan (181x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.601 W/kg

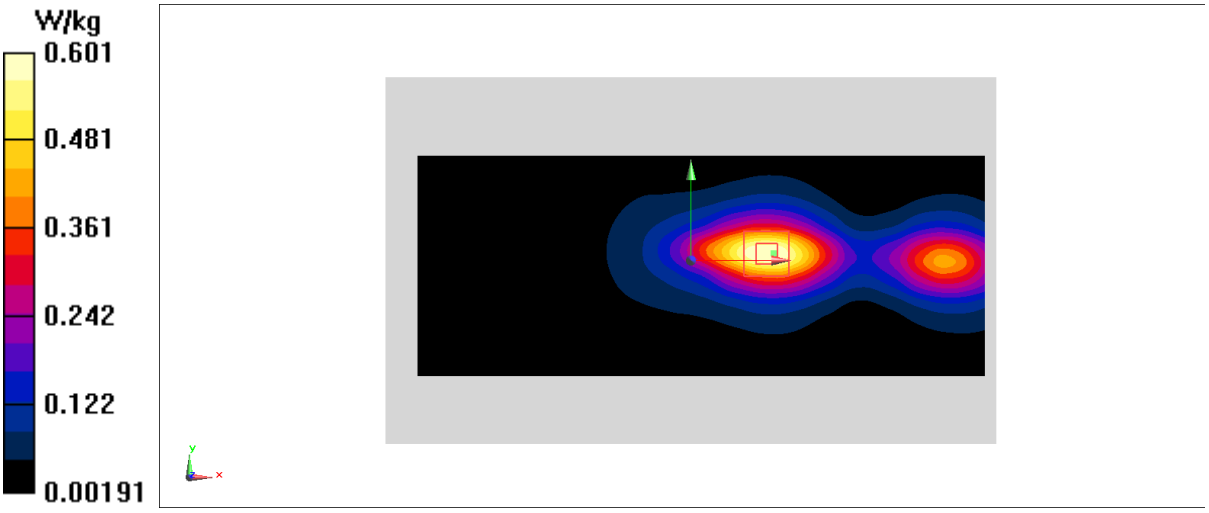
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.85 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.604 W/kg

SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.215 W/kg

Maximum value of SAR (measured) = 0.514 W/kg



N5 Body 0mm ANT0

Date: 2023/7/13

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.933 S/m; εr = 43.068; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: UID 0, 5G N5 (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7548 ConvF(10.3, 10.3, 10.3)

Area Scan (181x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.991 W/kg

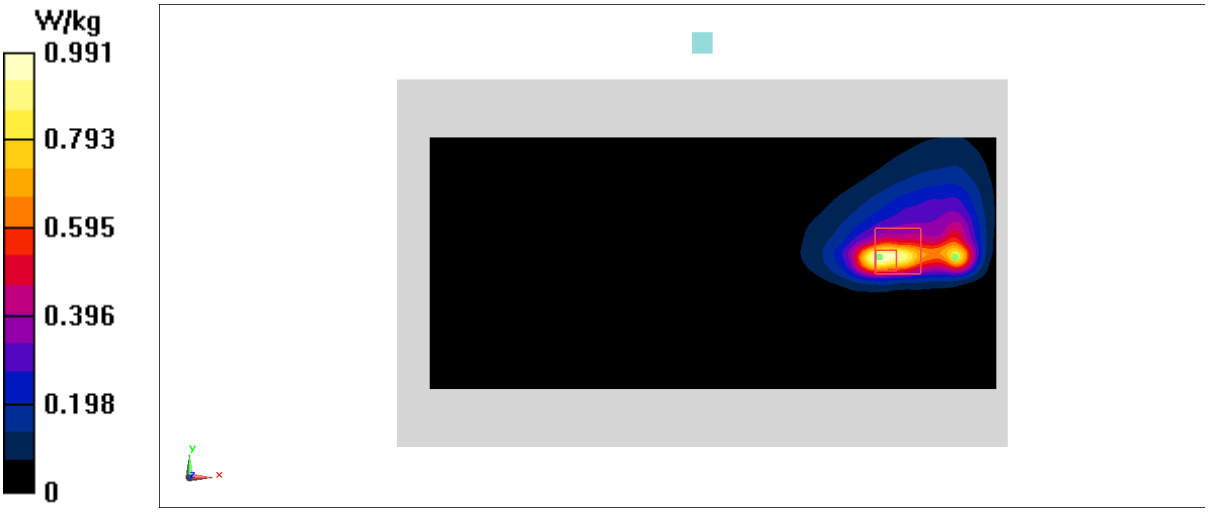
Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.099 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.251 W/kg

Maximum value of SAR (measured) = 0.762 W/kg



N7 Body 0mm ANT1

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 2535 MHz; σ = 1.97 S/m; εr = 40.71; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: UID 0, 5G N7 (0) Frequency: 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.32, 7.32, 7.32)

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

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

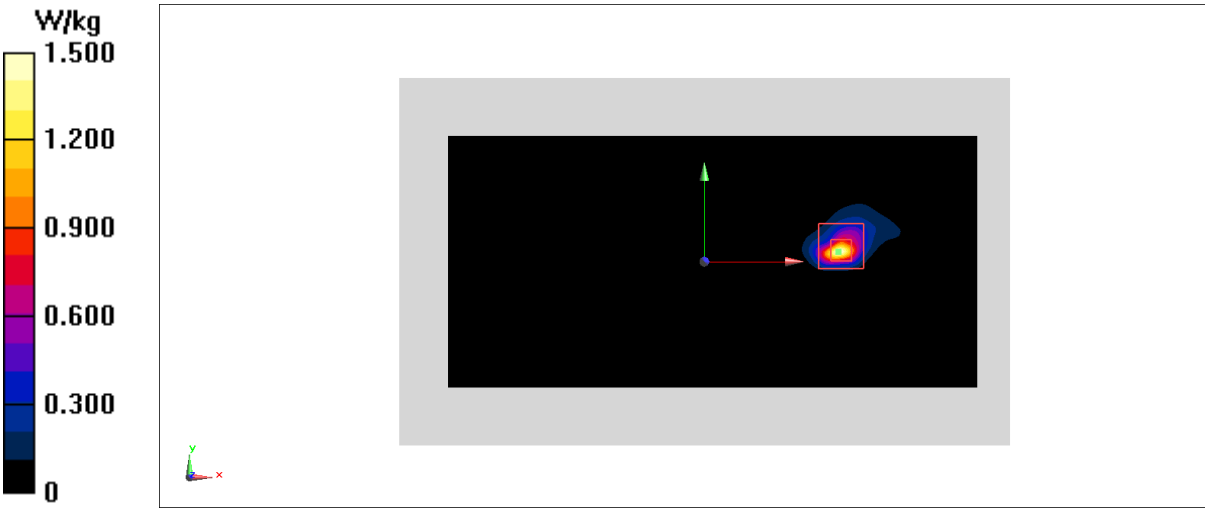
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.485 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 1.26 W/kg



N7 Body 0mm ANT4

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 2535 MHz; σ = 1.97 S/m; εr = 40.71; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: UID 0, 5G N7 (0) Frequency: 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.32, 7.32, 7.32)

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

Maximum value of SAR (interpolated) = 0.581 W/kg

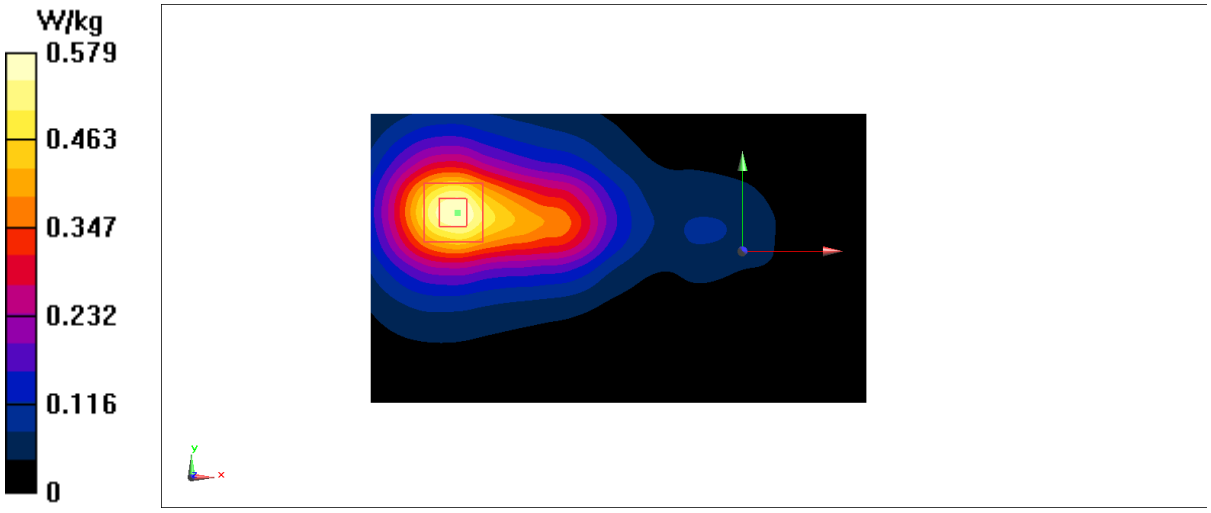
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.937 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.706 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.201 W/kg

Maximum value of SAR (measured) = 0.579 W/kg



N38 Body 0mm ANT4

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 2595 MHz; σ = 2.024 S/m; εr = 40.61; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: n38 (0) Frequency: 2595 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.12, 7.12, 7.12)

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

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

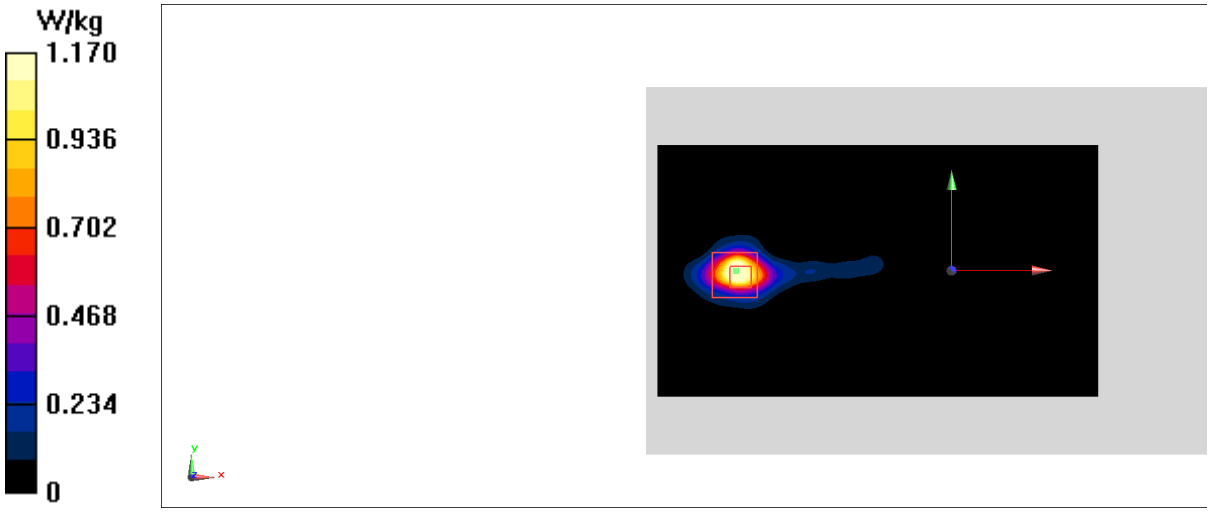
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.251 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.254 W/kg

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



N41 Body 0mm ANT4

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used (interpolated): f = 2592.99 MHz; σ = 2.024 S/m; εr = 40.61; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: 5G N41 (0) Frequency: 2592.99 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7548 ConvF(7.12, 7.12, 7.12)

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

Maximum value of SAR (interpolated) = 0.893 W/kg

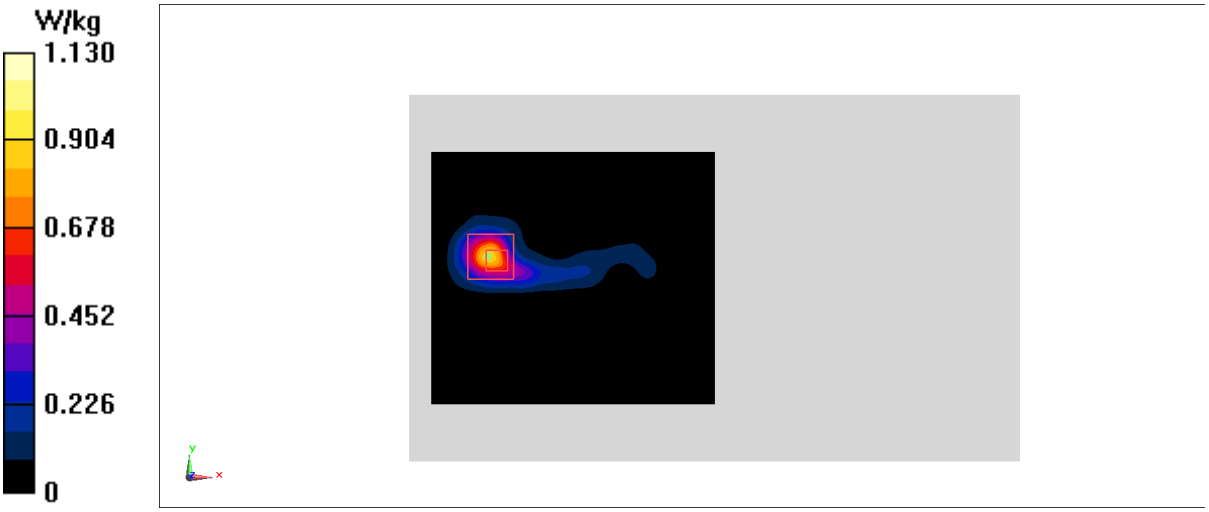
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.9190 V/m; Power Drift = 2.68 dB

Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.250 W/kg

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



N66 Body 0mm ANT0

Date: 2023/8/14

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1745 MHz; σ = 1.395 S/m; εr = 40.366; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: 5G N66 (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.43, 7.84, 8.08)

Area Scan (141x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.87 W/kg

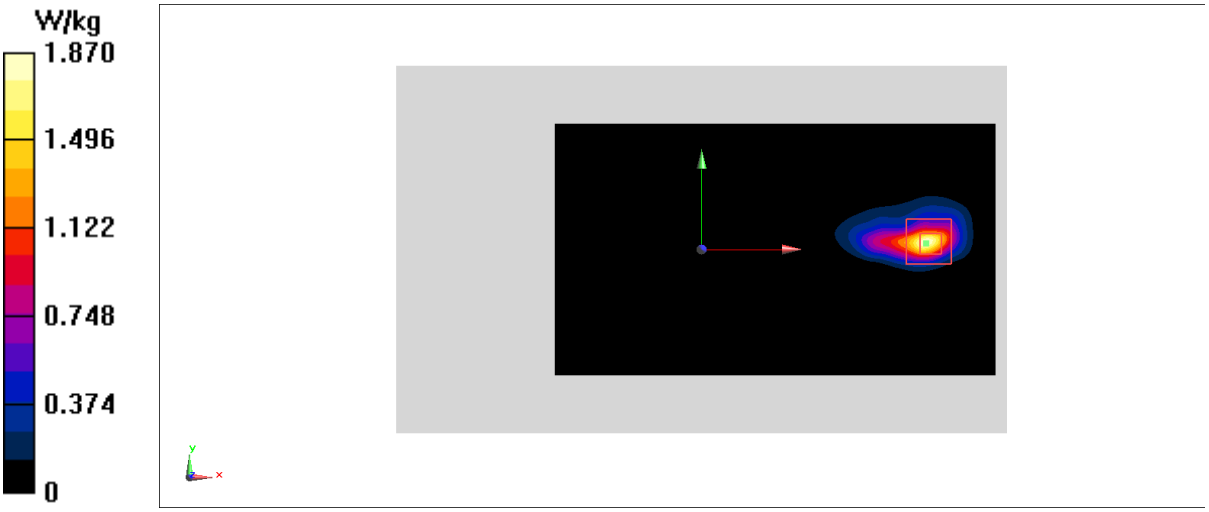
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.256 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.666 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) = 1.26 W/kg



N66 Body 10mm ANT4

Date: 2023/8/14

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1745 MHz; σ = 1.374 S/m; εr = 42.031; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: 5G N66 (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(8.43, 7.84, 8.08)

Area Scan (101x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.690 W/kg

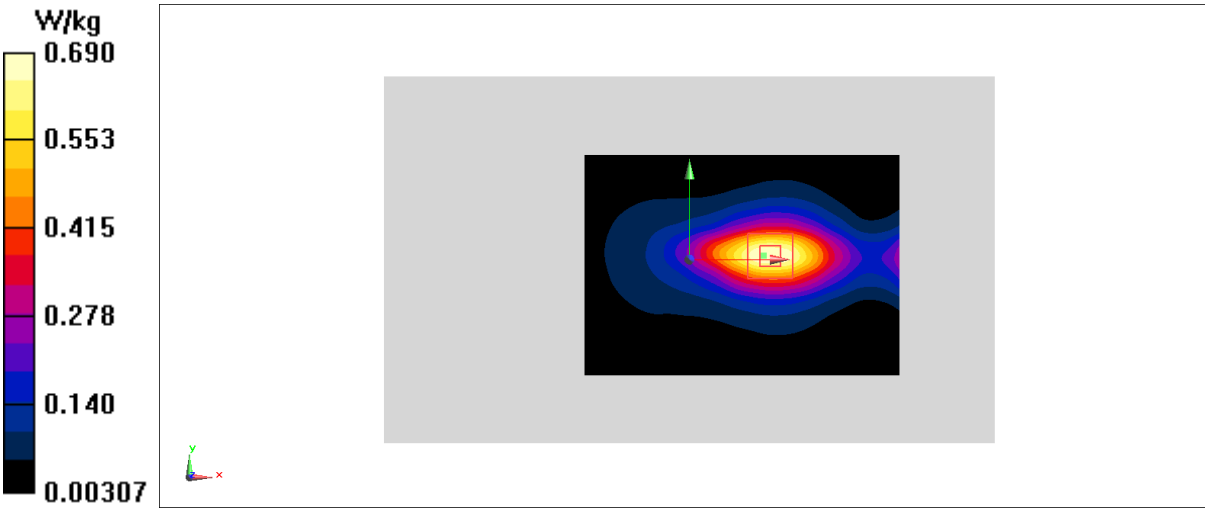
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.37 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.783 W/kg

SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.281 W/kg

Maximum value of SAR (measured) = 0.665 W/kg



N77L Body 0mm ANT5

Date: 2023/8/28

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): f = 3500.01 MHz; σ = 2.804 S/m; εr = 39.281; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: N77 (0) Frequency: 3500.01 MHz Duty Cycle: 1:2.49977

Probe: EX3DV4 - SN7517 ConvF(6.9, 6.34, 6.53)

Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.934 W/kg

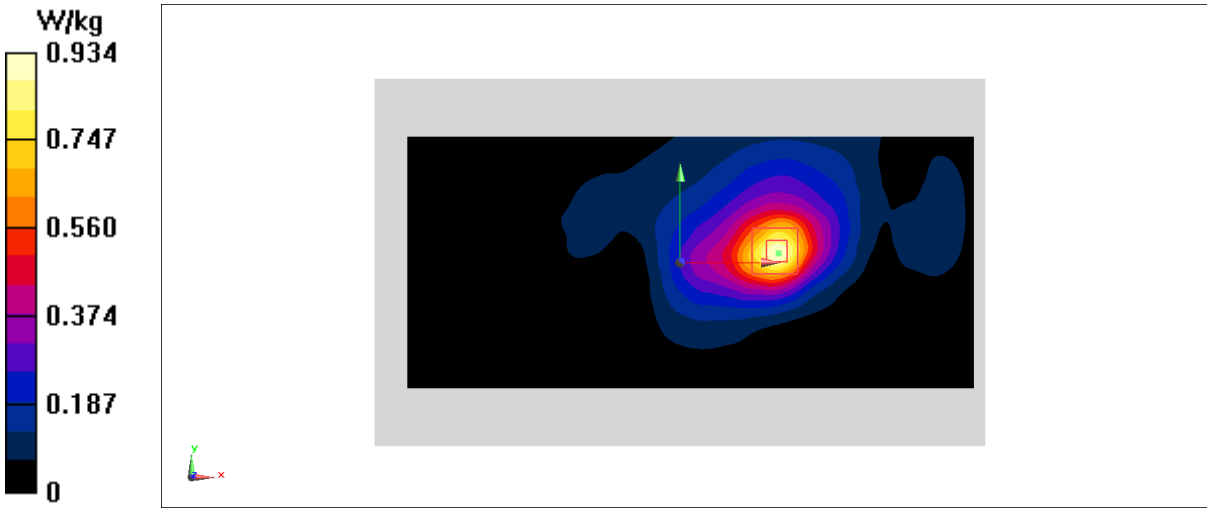
Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 10.56 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.254 W/kg

Maximum value of SAR (measured) = 0.955 W/kg



N77H Body 0mm ANT5

Date: 2023/8/28

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): f = 3762 MHz; σ = 3.026 S/m; εr = 38.86; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: 5G (0) Frequency: 3762 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(6.74, 6.21, 6.39)

Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

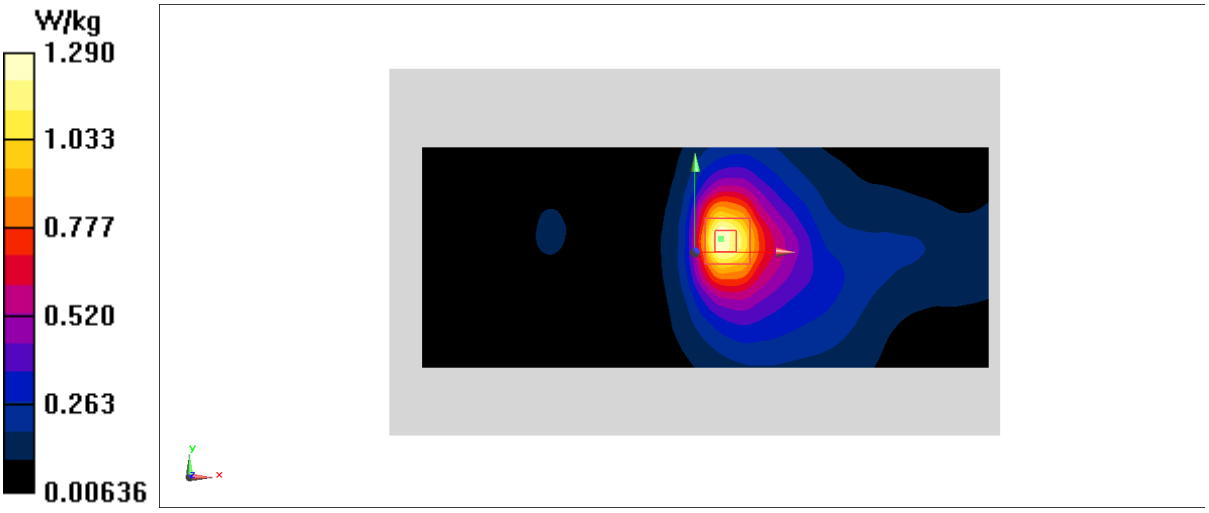
Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 14.73 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.324 W/kg

Maximum value of SAR (measured) = 1.19 W/kg



N78L Body 0mm ANT5

Date: 2023/8/28

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used (interpolated): f = 3500.01 MHz; σ = 2.804 S/m; εr = 39.281; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: 5G N78 (0) Frequency: 3500.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(6.9, 6.34, 6.53)

Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.978 W/kg

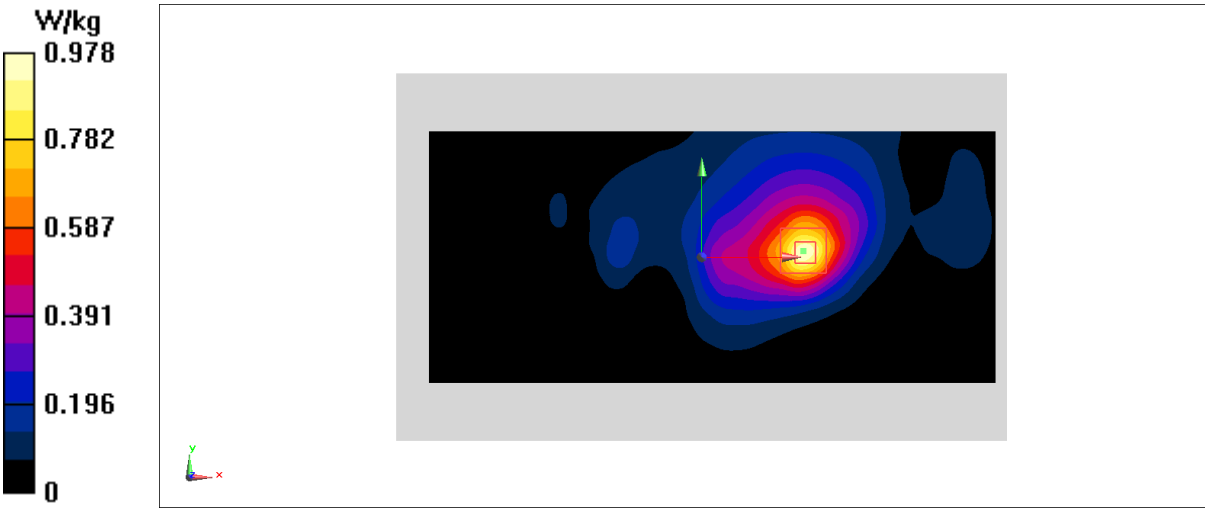
Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 10.43 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.245 W/kg

Maximum value of SAR (measured) = 0.938 W/kg



N78H Body 19mm ANT5

Date: 2023/8/28

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 3750 MHz; σ = 3.017 S/m; εr = 38.9; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: 5G n78 (0) Frequency: 3750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(6.74, 6.21, 6.39)

Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.779 W/kg

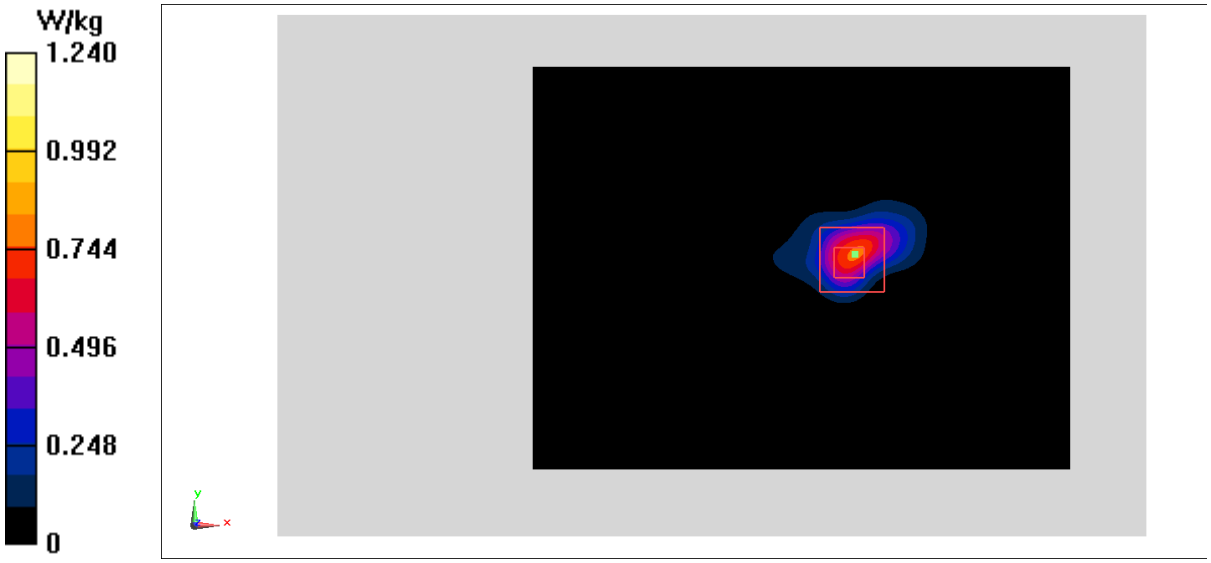
Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.910 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 0.626 W/kg; SAR(10 g) = 0.186 W/kg

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



WIFI2.4G Body 10mm ANT5

Date: 2023/8/7

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 2460 MHz; σ = 1.875 S/m; εr = 40.395; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: WLan 2450 (0) Frequency: 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.75, 7.16, 7.37)

Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.679 W/kg

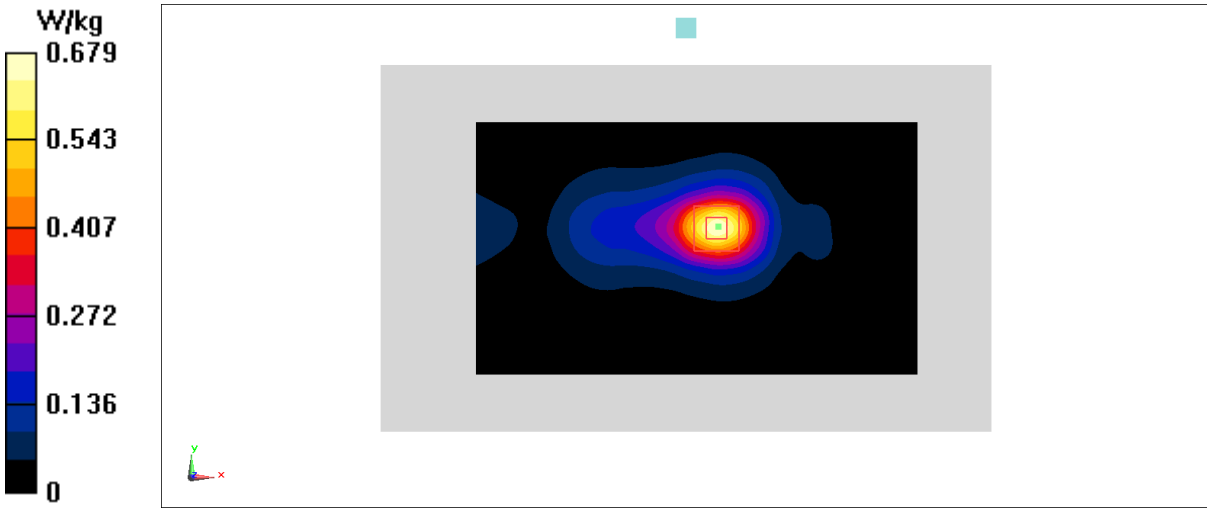
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.94 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.829 W/kg

SAR(1 g) = 0.441 W/kg; SAR(10 g) = 0.228 W/kg

Maximum value of SAR (measured) = 0.677 W/kg



WIFI5G Body 10mm ANT7

Date: 8/26/2023

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 5775 MHz; σ = 5.124 S/m; εr = 34.118; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: UID 0, WLan 11a (0) Frequency: 5775 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7517 ConvF(5.16, 4.72, 4.83)

Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.898 W/kg

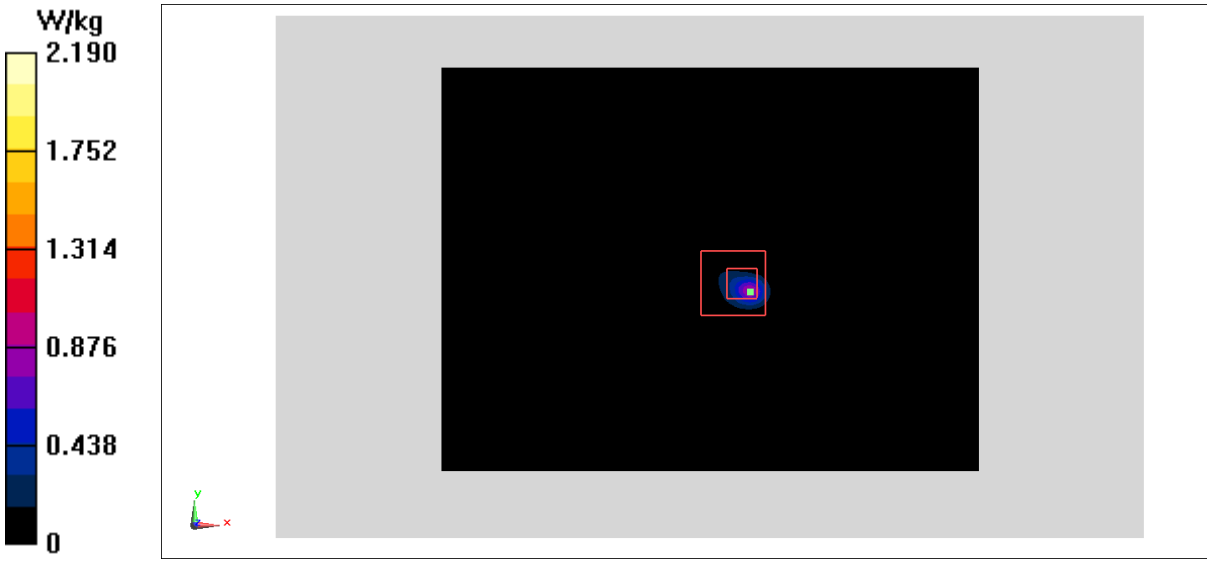
Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.848 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 9.17 W/kg

SAR(1 g) = 0.506 W/kg; SAR(10 g) = 0.075 W/kg

Maximum value of SAR (measured) = 2.19 W/kg



BT Body 10mm ANT6

Date: 2023/8/7

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 2441 MHz; σ = 1.857 S/m; εr = 40.444; ρ = 1000 kg/m3

Ambient Temperature:23.3oC Liquid Temperature: 22.5oC

Communication System: UID 0, Bluetooth (0) Frequency: 2441 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(7.75, 7.16, 7.37)

Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.563 W/kg

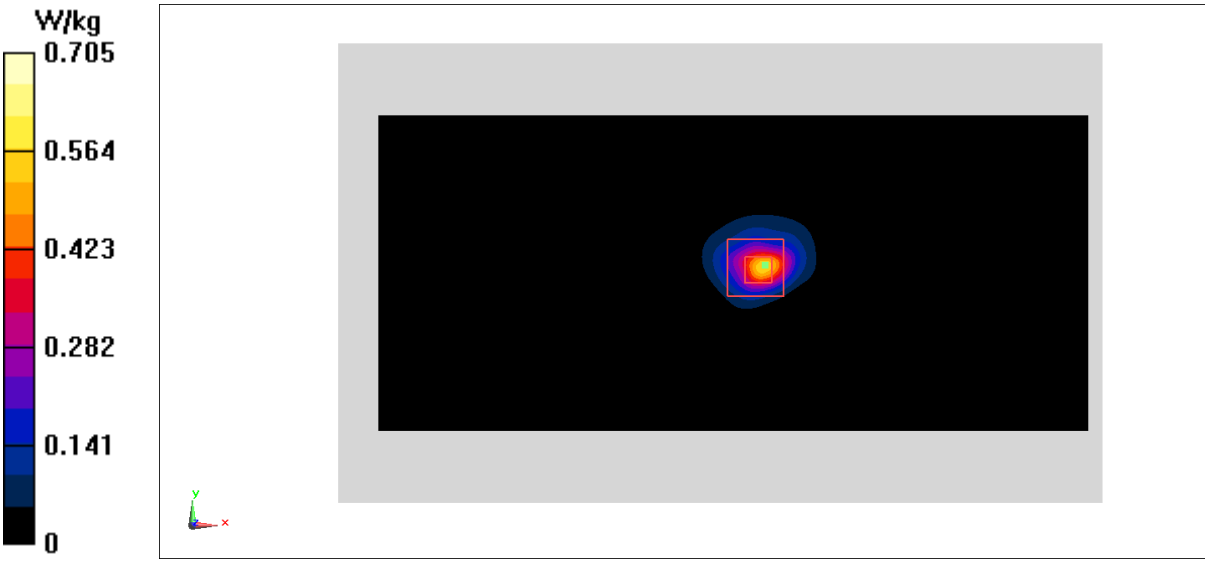
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

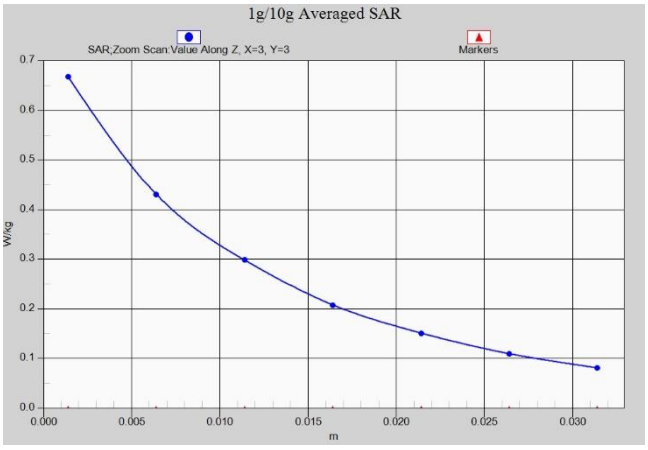
Reference Value = 6.944 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.01 W/kg

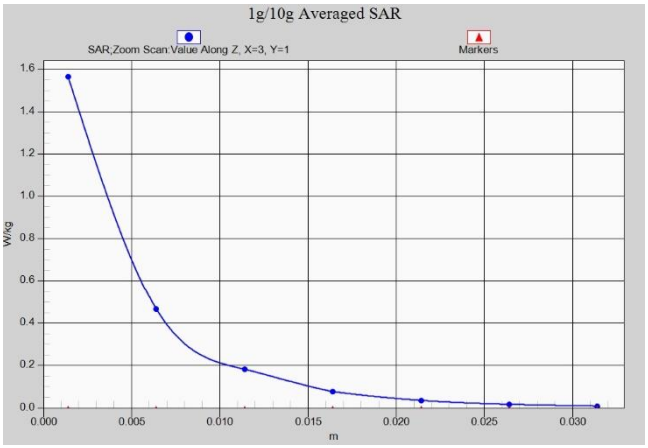
SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.105 W/kg

Maximum value of SAR (measured) = 0.705 W/kg

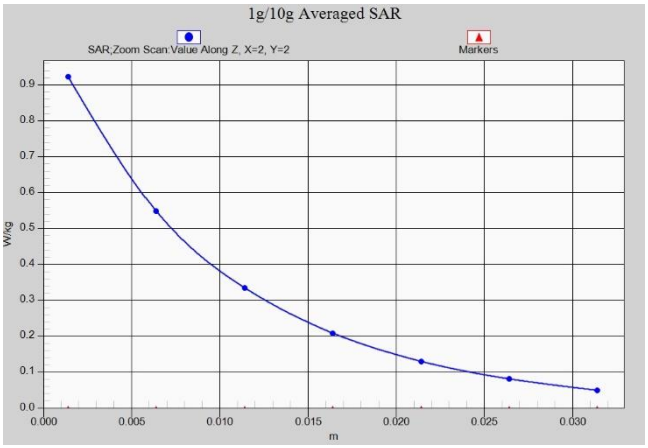




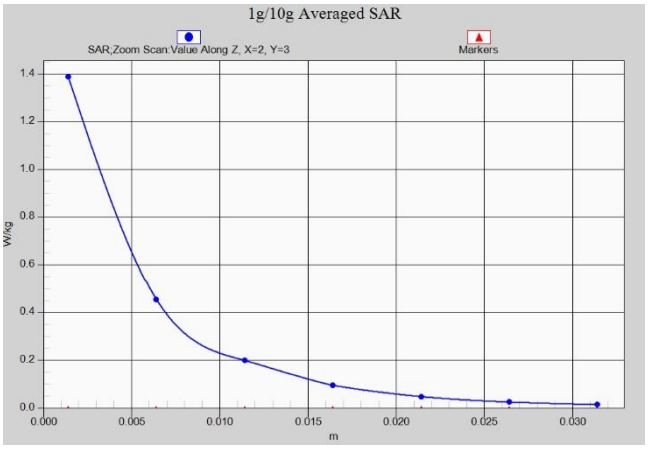
GSM850 Body 5mm ANT0



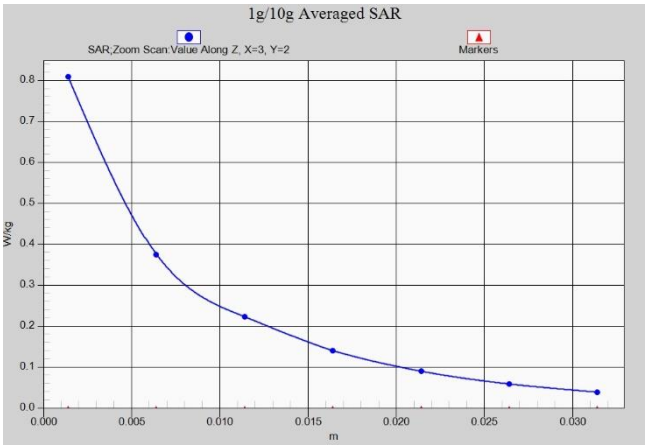
GSM1900 Body 0mm ANT0



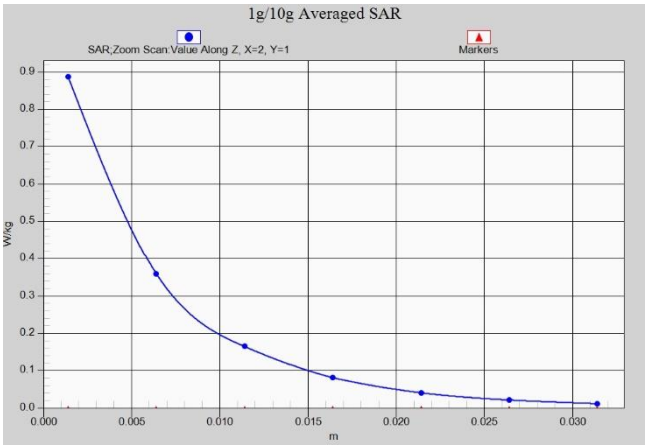
WCDMA1900 Body 20mm ANT0



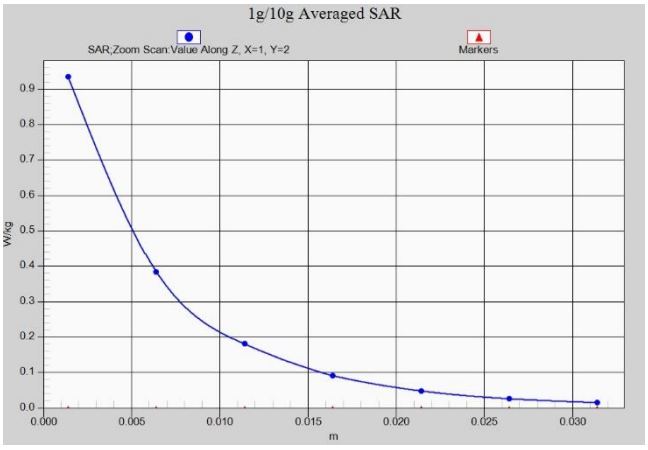
WCDMA1700 Body 0mm ANT0



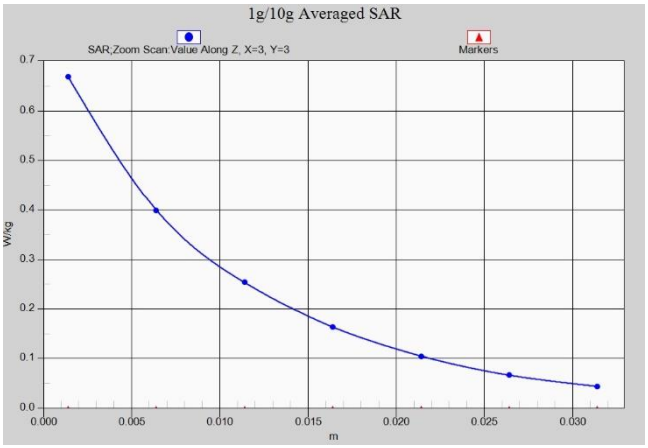
WCDMA850 Body 0mm ANT0



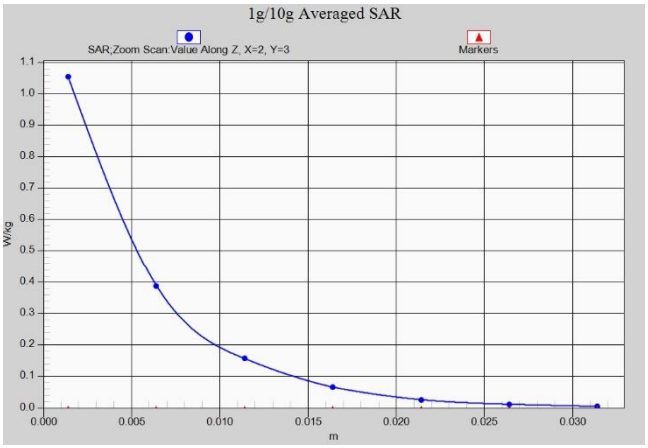
LTE Band2 Body 0mm ANT0



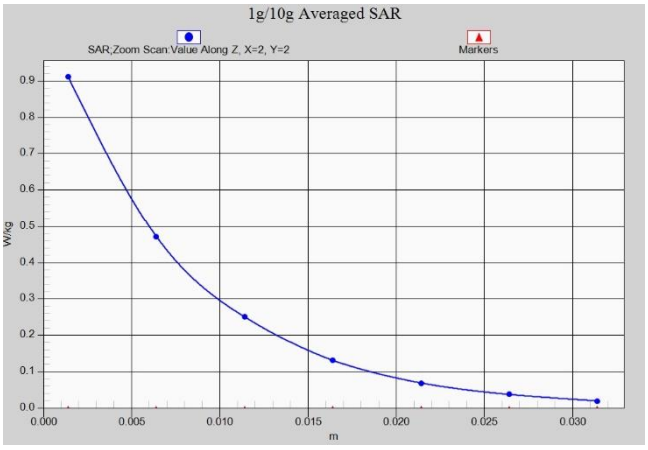
LTE Band4 Body 0mm ANT0



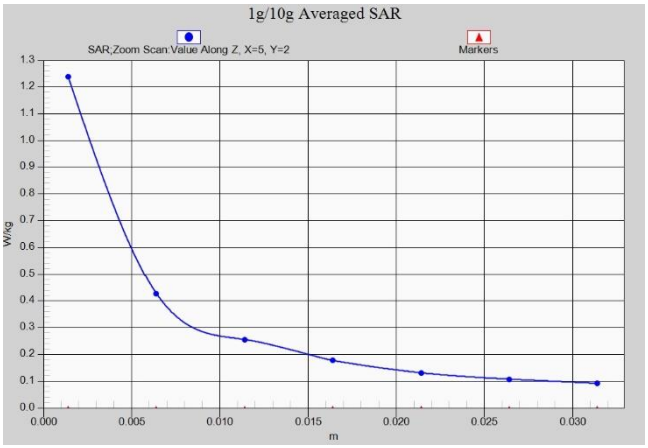
LTE Band4 Body 10mm ANT4



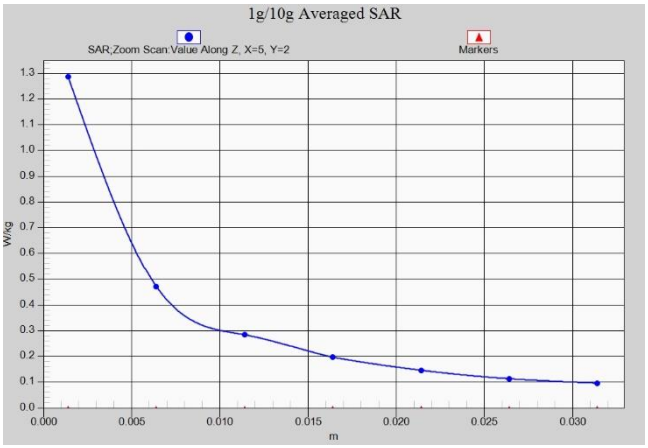
LTE Band7 Body 0mm ANT1



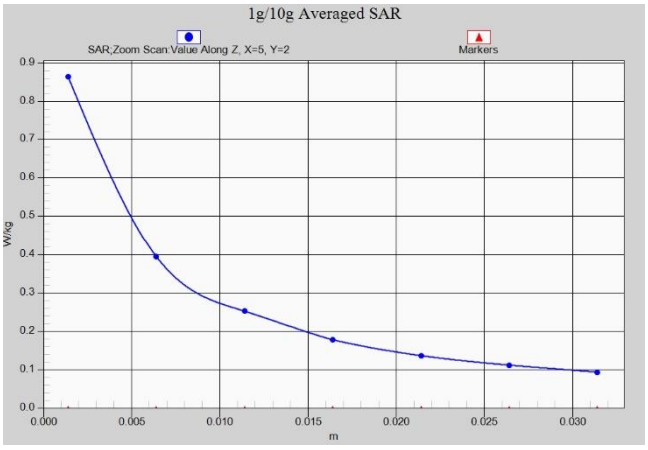
LTE Band7 Body 19mm ANT4



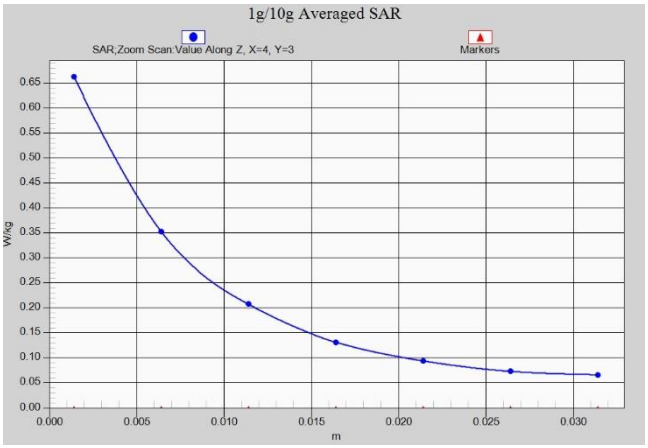
LTE Band12 Body 0mm ANT0



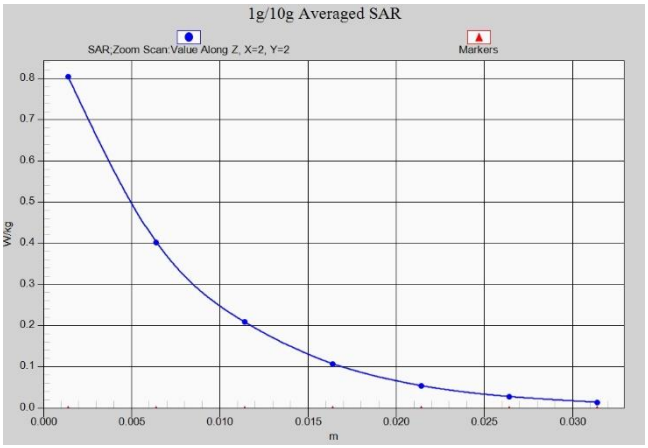
LTE Band13 Body 0mm ANT0



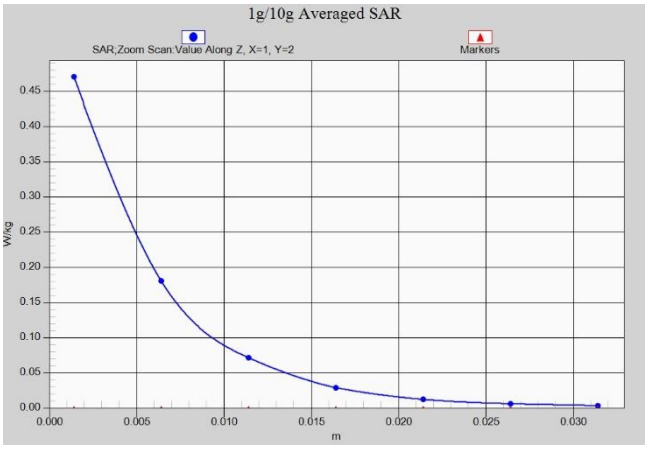
LTE Band26 Body 0mm ANT0



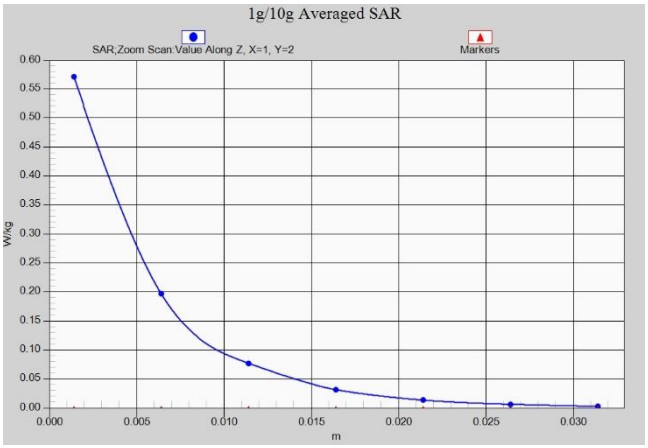
LTE Band38 Body 20mm ANT1



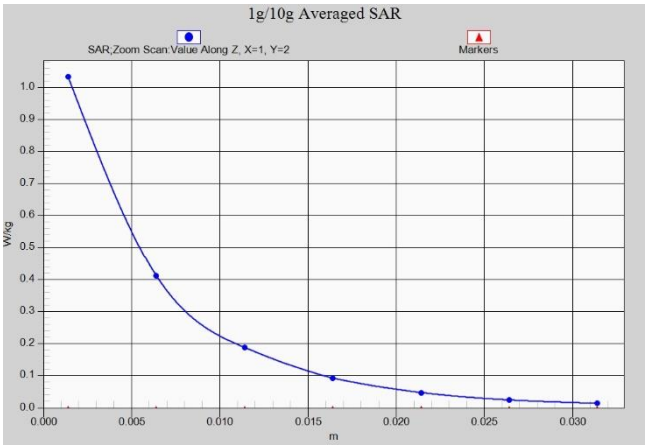
LTE Band38 Body 19mm ANT4



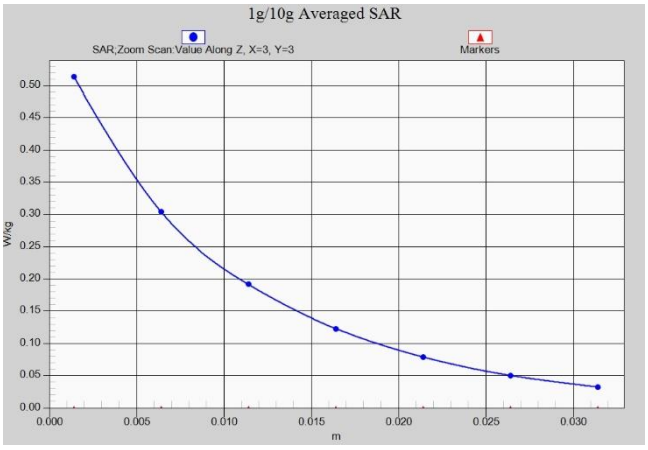
LTE Band41 Body 0mm ANT1



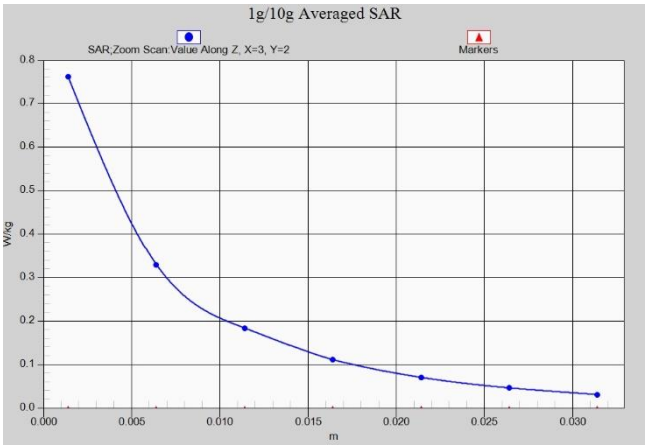
LTE Band41 Body 0mm ANT4



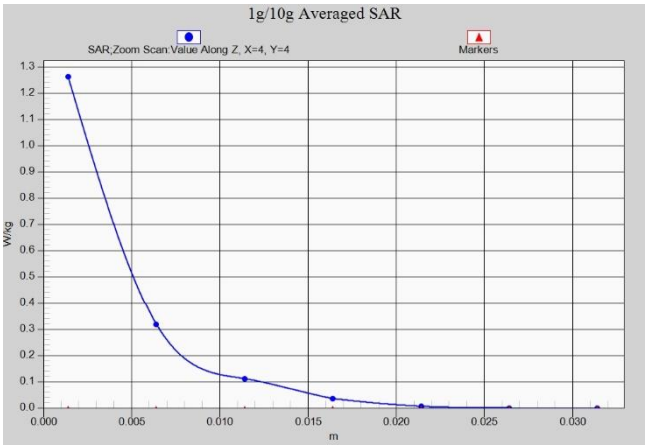
LTE Band66 Body 0mm ANT0



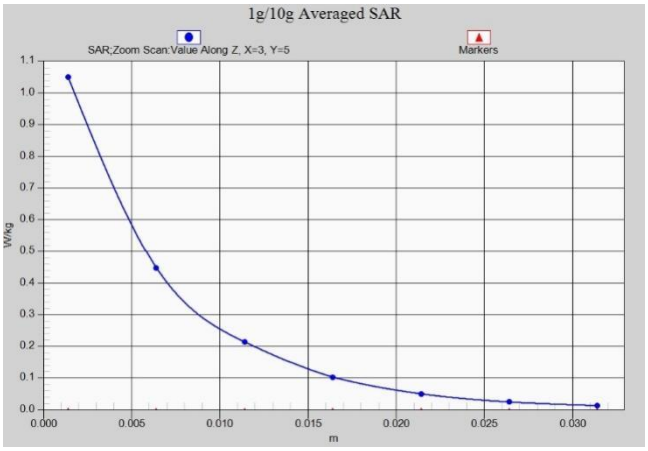
LTE Band66 Body 10mm ANT4



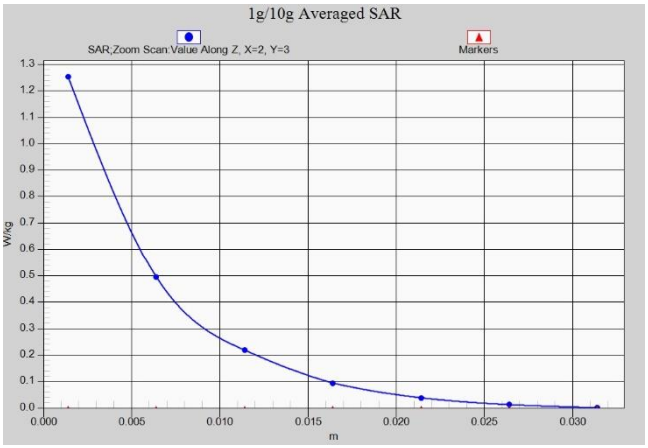
N5 Body 10mm ANT0



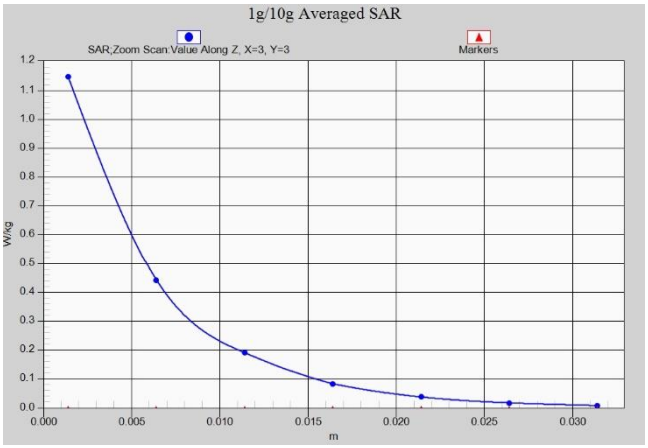
N7 Body 0mm ANT1



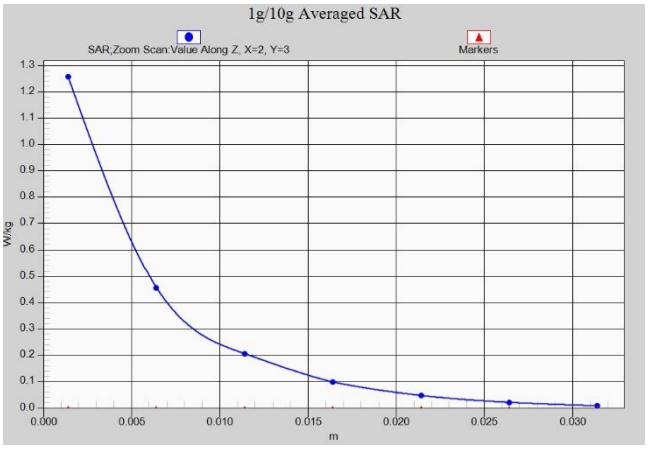
N7 Body 19mm ANT4



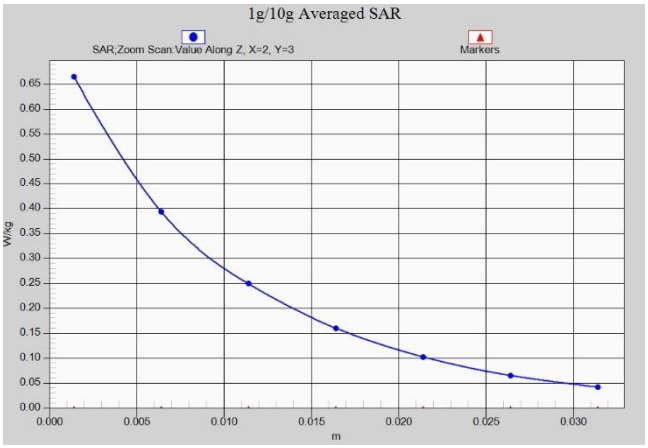
N38 Body 0mm ANT4



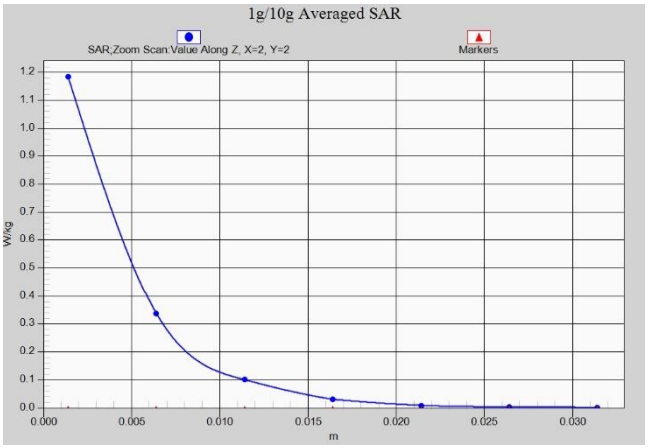
N41 Body 0mm ANT4



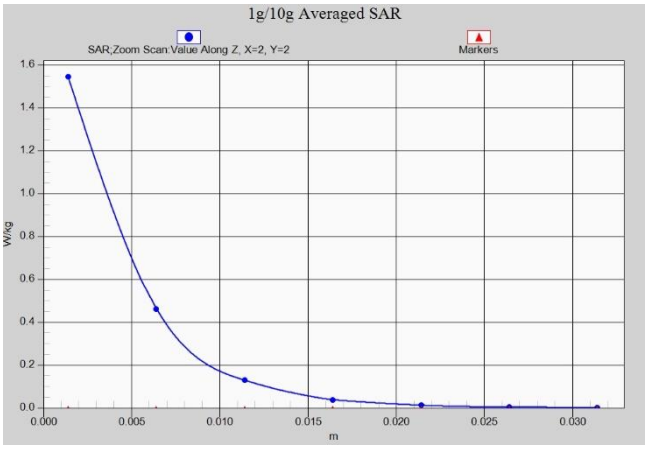
N66 Body 0mm ANT0



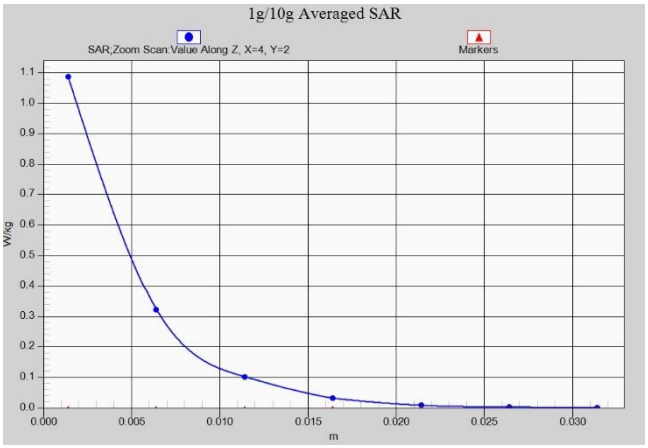
N66 Body 10mm ANT4



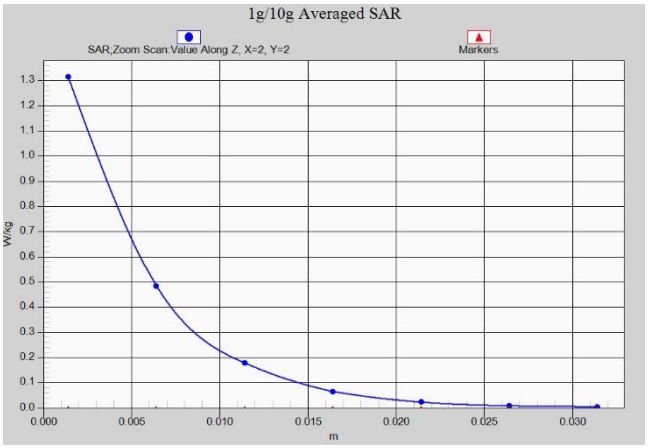
N77L Body 0mm ANT5



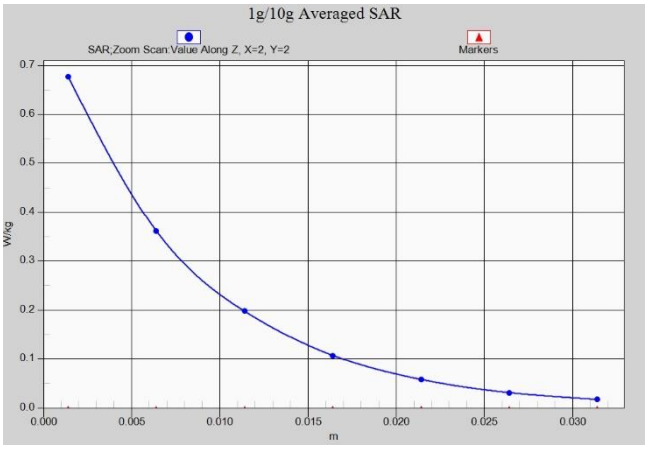
N77H Body 0mm ANT5



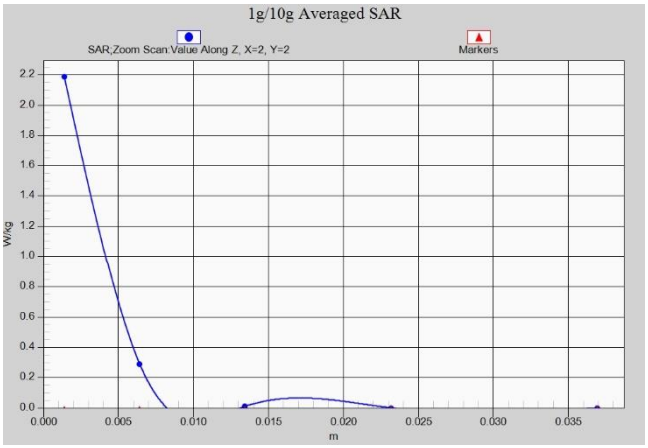
N78L Body 0mm ANT5



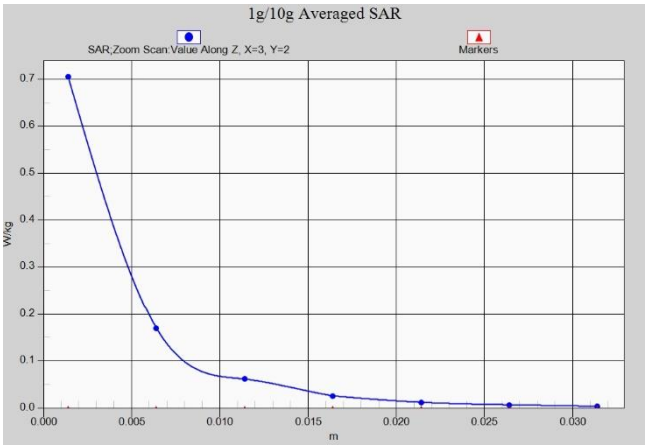
N78H Body 19mm ANT5



WIFI2.4G Body 17mm



WIFI5G Body 0mm



BT Body 0mm

ANNEX B SYSTEM VALIDATION RESULTS

750 MHz

Date: 2023/7/17

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 750 MHz; σ = 0.896 S/m; εr = 43.15; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7517 ConvF(9.39, 8.81, 9.17)

Area Scan (131x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

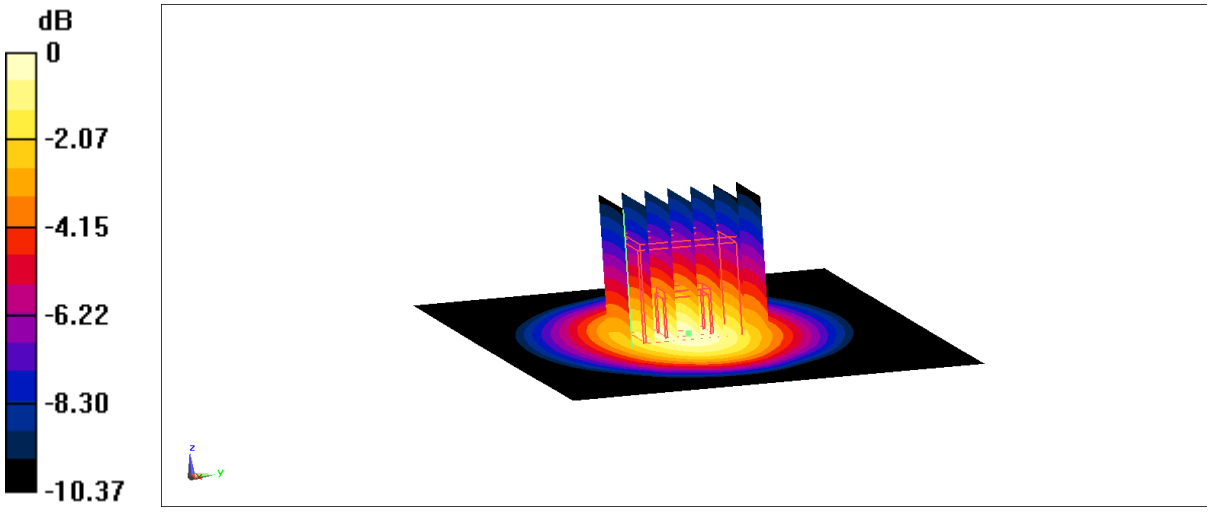
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.71 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.41 W/kg

Maximum value of SAR (measured) = 2.74 W/kg



0 dB = 2.74 W/kg = 4.38 dBW/kg

835 MHz

Date: 2023/8/2

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 835 MHz; σ = 0.878 S/m; εr = 42.7; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7517 ConvF(9.84, 8.48, 8.98)

Area Scan (131x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.25 W/kg

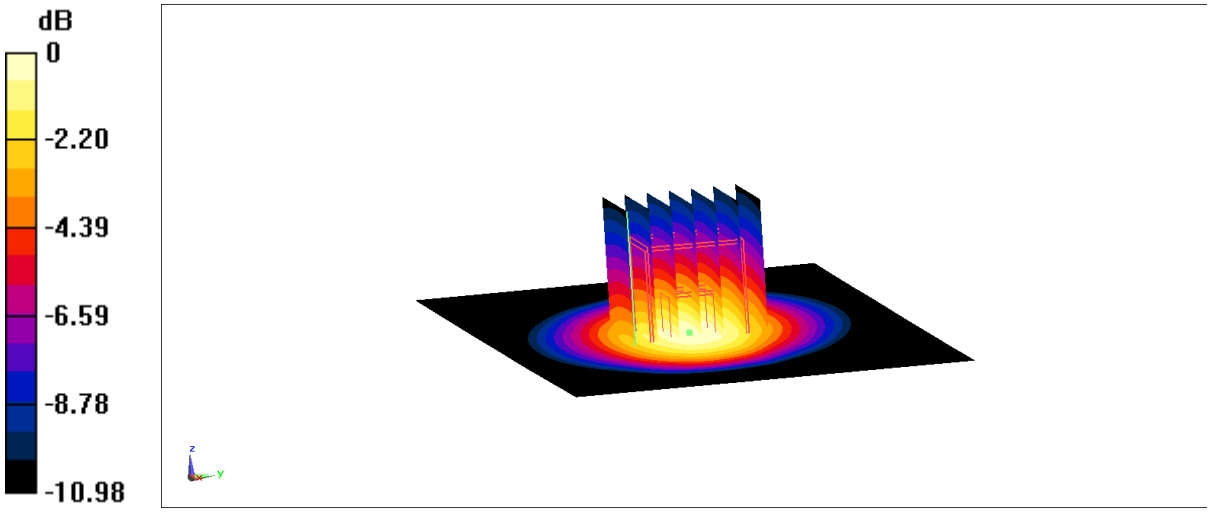
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.97 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 3.65 W/kg

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

Maximum value of SAR (measured) = 3.19 W/kg



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

835 MHz

Date: 2023/7/13

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 835 MHz; σ = 0.932 S/m; εr = 43.07; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7548 ConvF(10.3, 10.3, 10.3)

Area Scan (131x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.08 W/kg

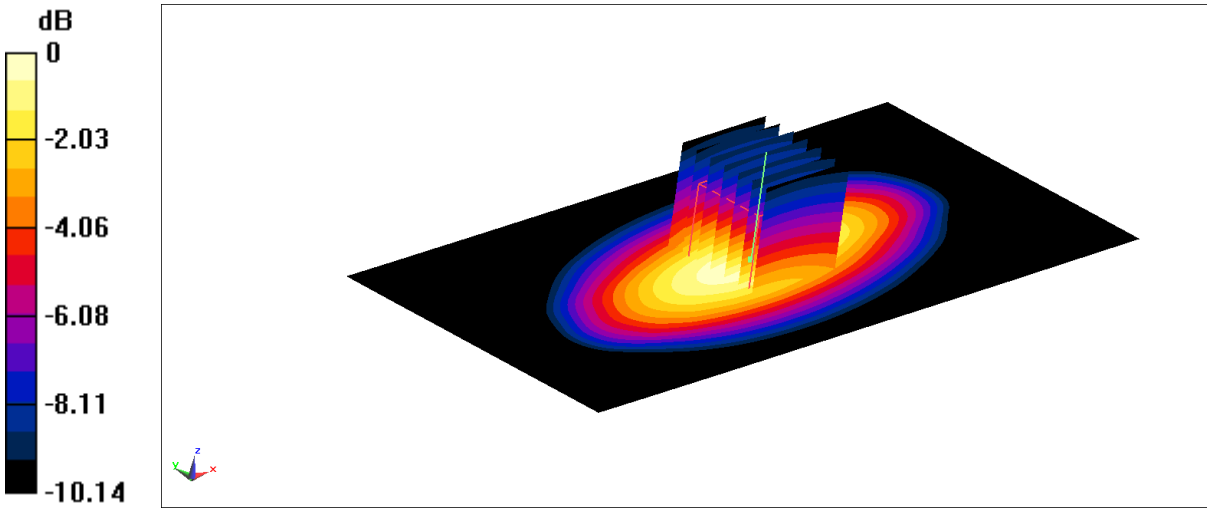
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.77 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.66 W/kg

Maximum value of SAR (measured) = 3.11 W/kg



0 dB = 3.11 W/kg = 4.93 dBW/kg

1750 MHz

Date: 2023/7/29

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1750 MHz; σ = 1.412 S/m; εr = 41.21; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7517 ConvF(8.43, 7.84, 8.08)

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

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

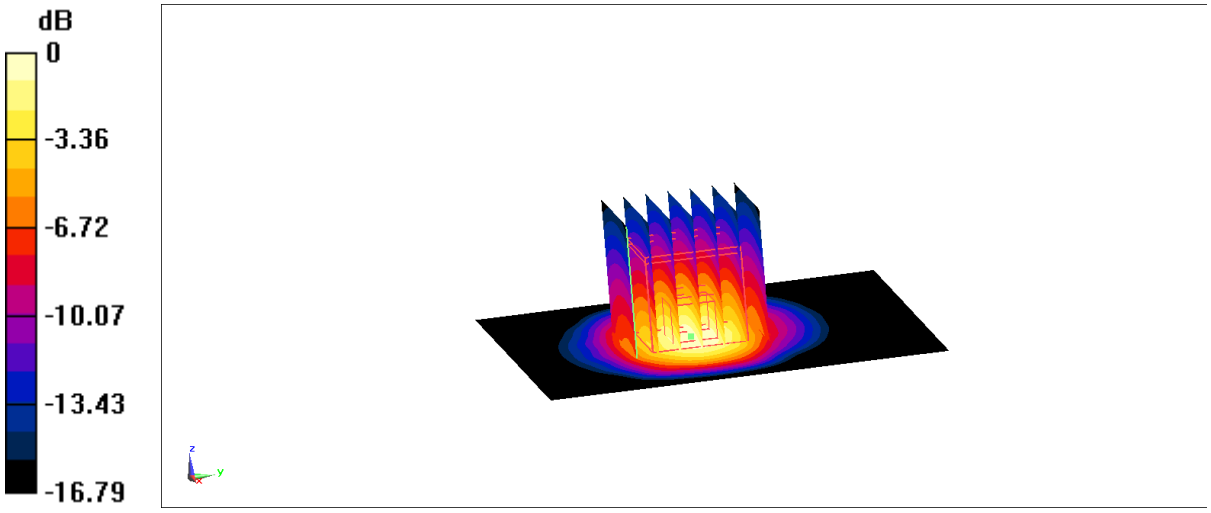
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.02 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.25 W/kg; SAR(10 g) = 4.92 W/kg

Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg

1750 MHz

Date: 2023/8/14

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1750 MHz; σ = 1.398 S/m; εr = 40.36; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7517 ConvF(8.43, 7.84, 8.08)

Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.9 W/kg

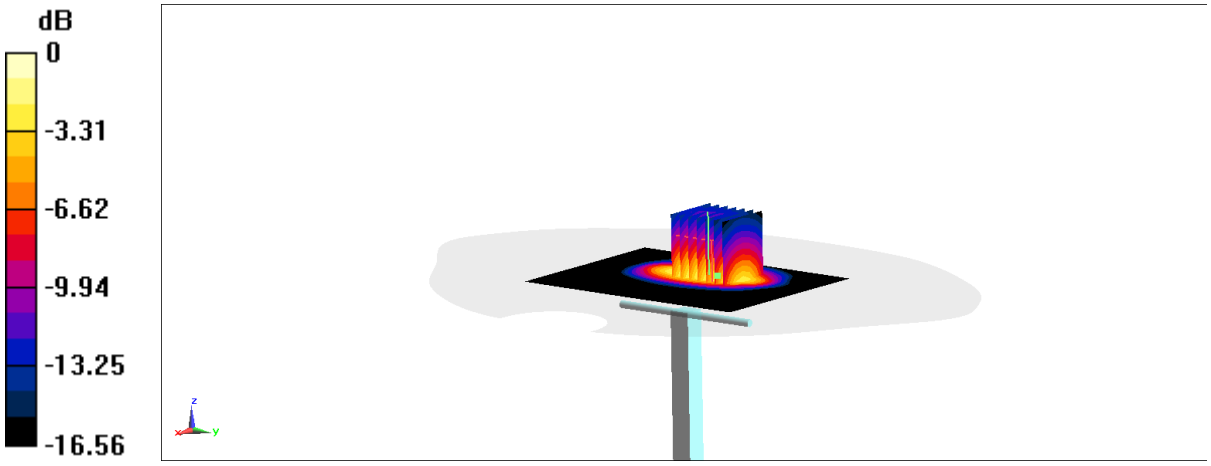
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.01 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.91 W/kg

Maximum value of SAR (measured) = 12.9 W/kg



0 dB = 12.9 W/kg = 11.11 dBW/kg

1900 MHz

Date: 2023/8/4

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 1900 MHz; σ = 1.453 S/m; εr = 40.93; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7517 ConvF(8.34, 7.75, 7.97)

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

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

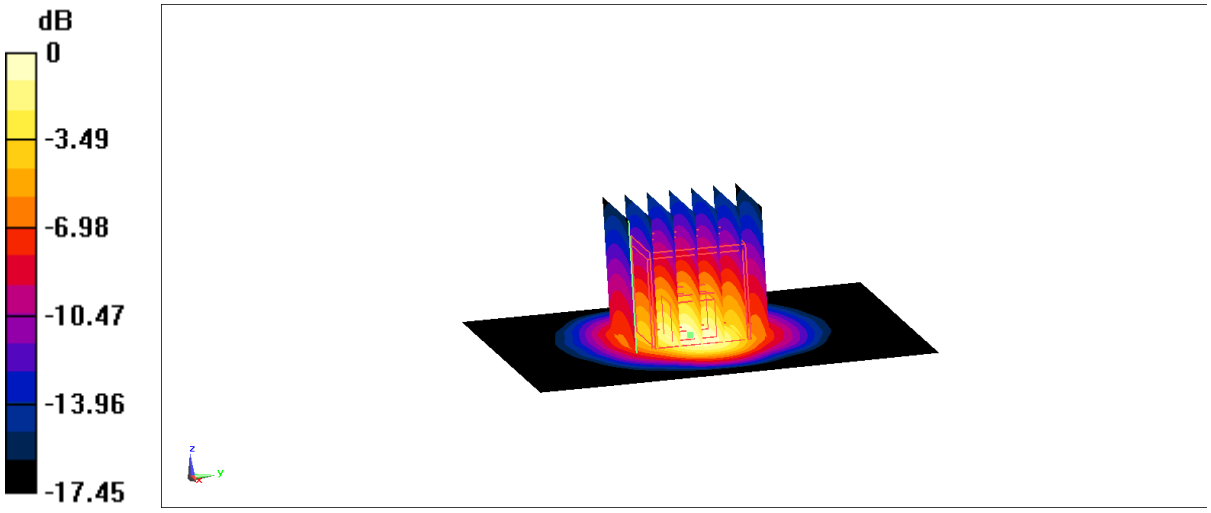
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 9.83 W/kg; SAR(10 g) = 5.08 W/kg

Maximum value of SAR (measured) = 15.5 W/kg



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

2450 MHz

Date: 2023/8/7

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 2450 MHz; σ = 1.865 S/m; εr = 40.43; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 - SN7517 ConvF(7.75, 7.16, 7.37)

Area Scan (81x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.8 W/kg

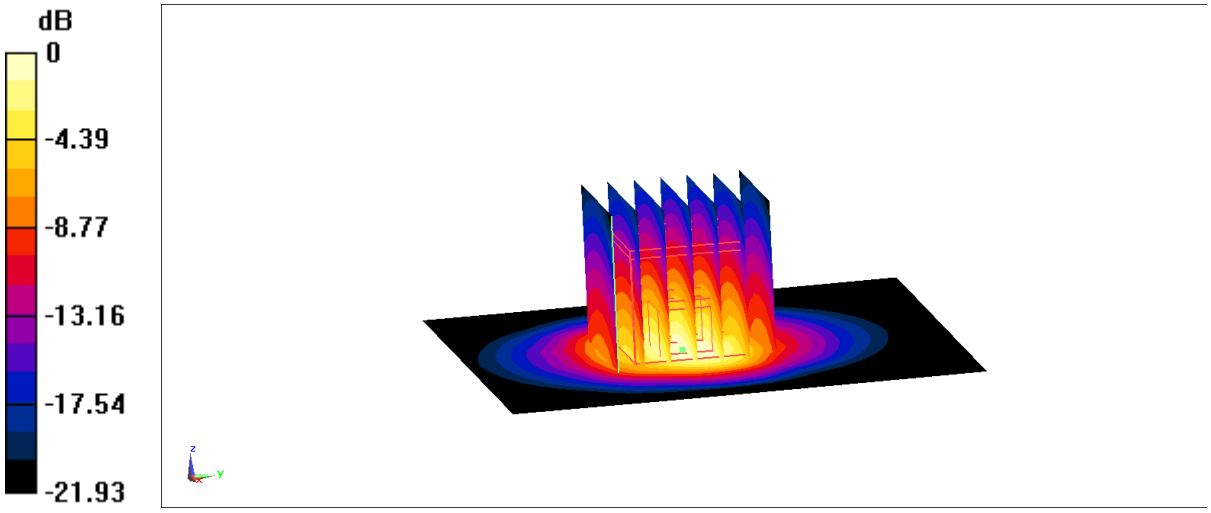
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.79 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.21 W/kg

Maximum value of SAR (measured) = 21.9 W/kg



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

2600 MHz

Date: 2023/7/26

Electronics: DAE4 Sn1525

Medium: H700-6000M

Medium parameters used: f = 2600 MHz; σ = 2.028 S/m; εr = 40.6; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 – SN7548 ConvF(7.12, 7.12, 7.12)

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

Maximum value of SAR (interpolated) = 22.2 W/kg

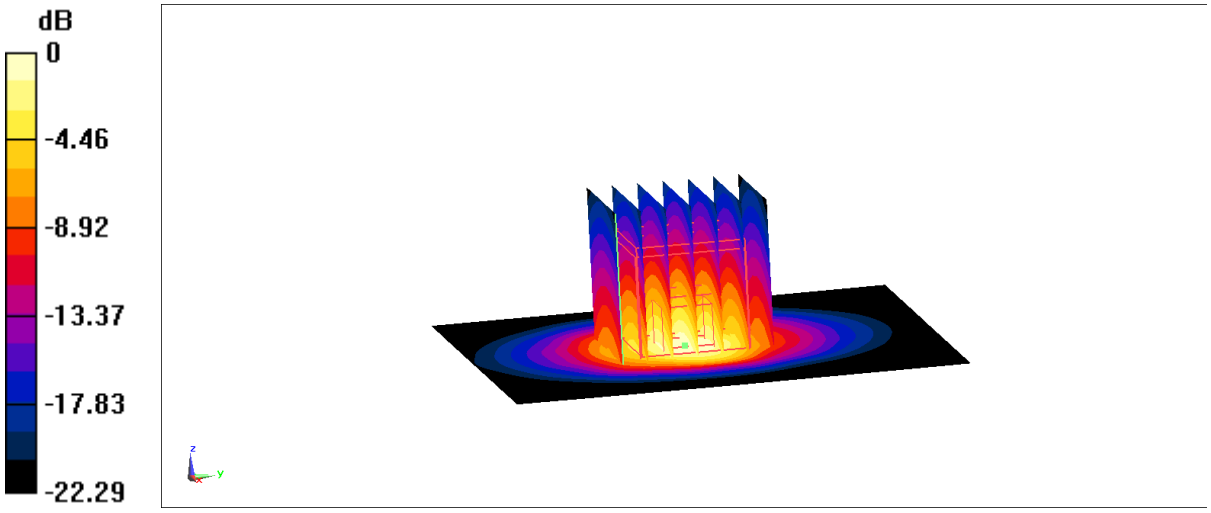
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.22 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 28.5 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.16 W/kg

Maximum value of SAR (measured) = 23.2 W/kg



0 dB = 23.2 W/kg = 13.65 dBW/kg

3500 MHz

Date: 2023/8/28

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 3500 MHz; σ = 2.804 S/m; εr = 39.28; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: CW (0) Frequency: 3500 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(6.9, 6.34, 6.53)

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

Maximum value of SAR (interpolated) = 12.4 W/kg

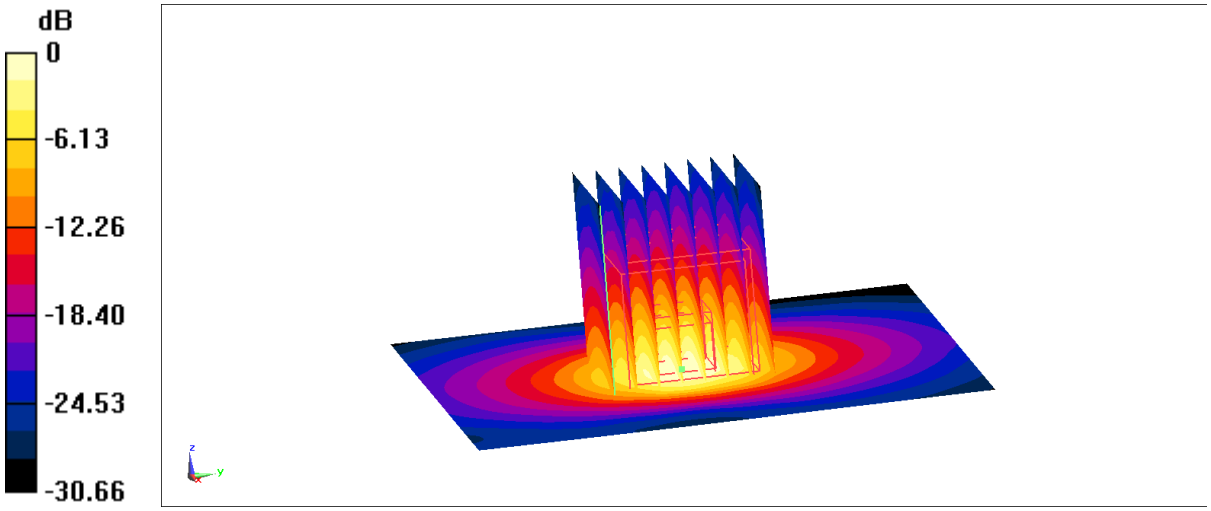
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.42 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 6.53 W/kg; SAR(10 g) = 2.48 W/kg

Maximum value of SAR (measured) = 12.1 W/kg



0 dB = 12.1 W/kg = 10.83 dBW/kg

3700 MHz

Date: 2023/8/28

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 3700 MHz; σ = 2.983 S/m; εr = 38.94; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: CW (0) Frequency: 3700 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(6.74, 6.21, 6.39)

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

Maximum value of SAR (interpolated) = 13.2 W/kg

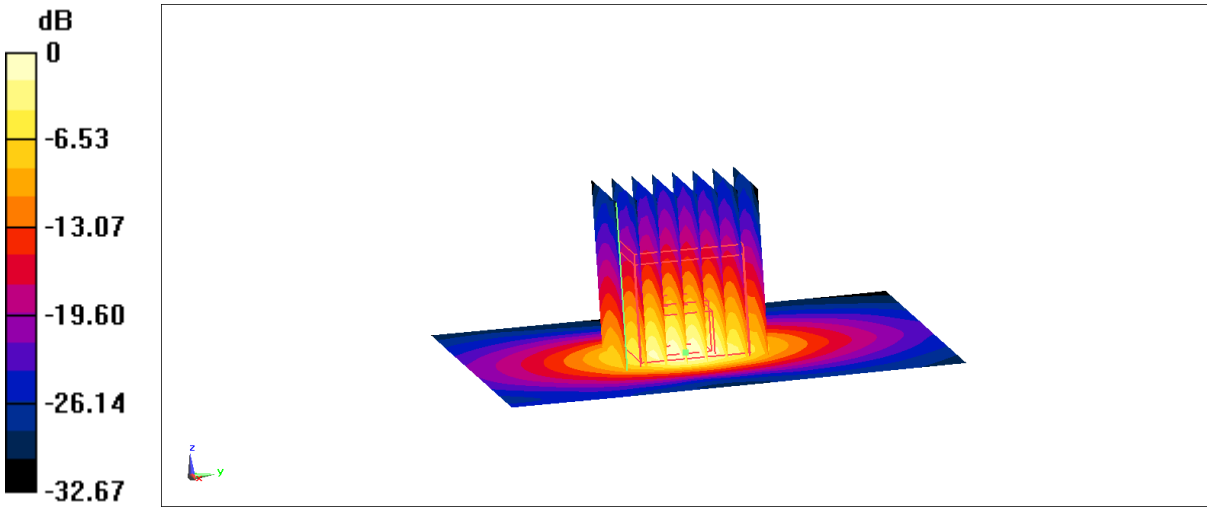
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 63.84 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 6.68 W/kg; SAR(10 g) = 2.53 W/kg

Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg = 10.90 dBW/kg

3900 MHz

Date: 2023/8/28

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 3900 MHz; σ = 3.168 S/m; εr = 38.62; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: CW (0) Frequency: 3900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(6.67, 6.12, 6.31)

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

Maximum value of SAR (interpolated) = 12.9 W/kg

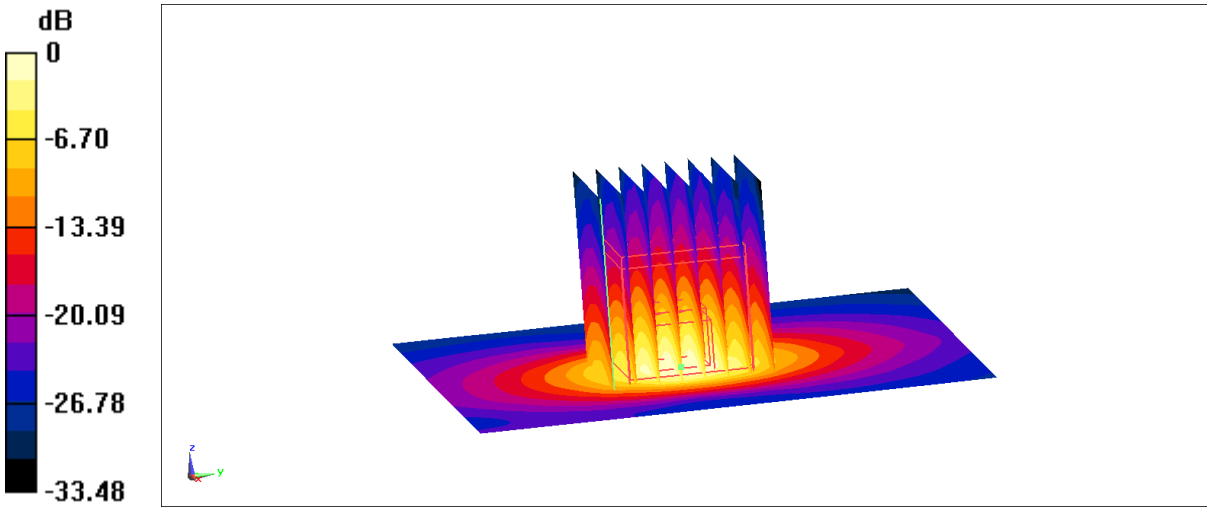
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.05 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 6.7 W/kg; SAR(10 g) = 2.42 W/kg

Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

4200 MHz

Date: 2023/8/28

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 4200 MHz; σ = 3.466 S/m; εr = 38.15; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

Communication System: UID 0, CW (0) Frequency: 4200 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7517 ConvF(6.71, 6.12, 6.35)

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

Maximum value of SAR (interpolated) = 13.2 W/kg

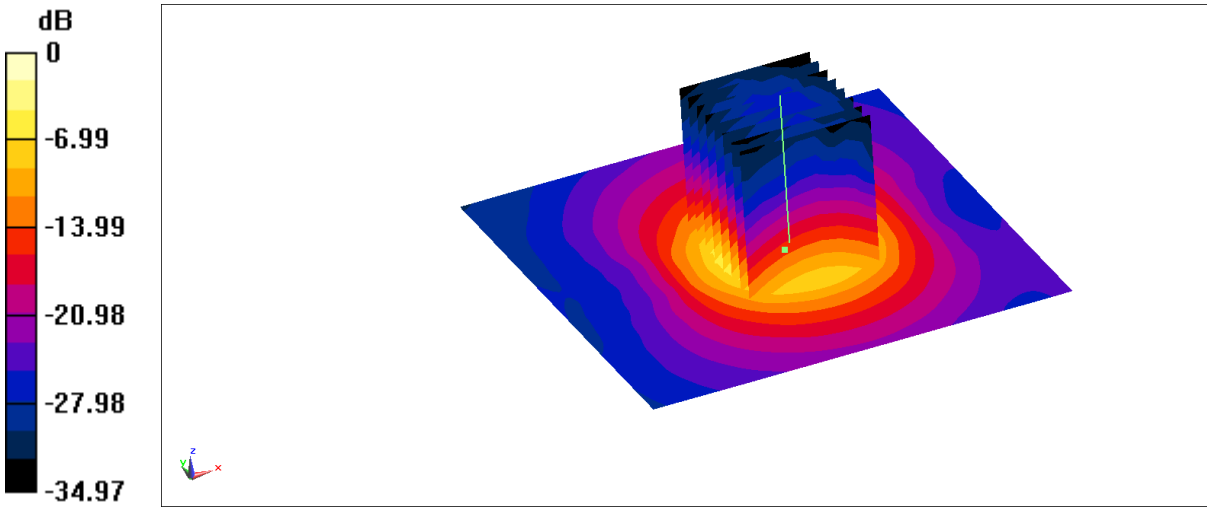
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 62.41 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 18.5 W/kg

SAR(1 g) = 6.52 W/kg; SAR(10 g) = 2.18 W/kg

Maximum value of SAR (measured) = 13.1 W/kg



0 dB = 13.1 W/kg = 11.17 dBW/kg

5250 MHz

Date: 2023/8/26

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 5250 MHz; σ = 4.561 S/m; εr = 35.07; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 – SN7517 ConvF(5.83, 5.28, 5.47)

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

Maximum value of SAR (interpolated) = 18.8 W/kg

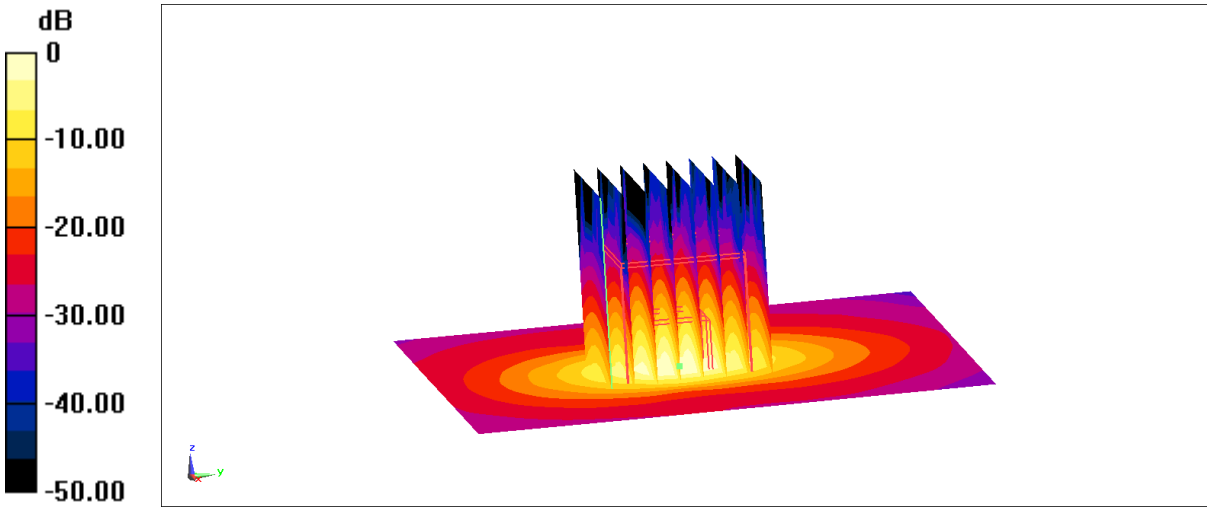
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.88 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 31.9 W/kg

SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.36 W/kg

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



0 dB = 18.5 W/kg = 12.67 dBW/kg

5600 MHz

Date: 2023/8/26

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 5600 MHz; σ = 4.931 S/m; εr = 34.39; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 – SN7517 ConvF(4.91, 4.55, 4.63)

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

Maximum value of SAR (interpolated) = 20.1 W/kg

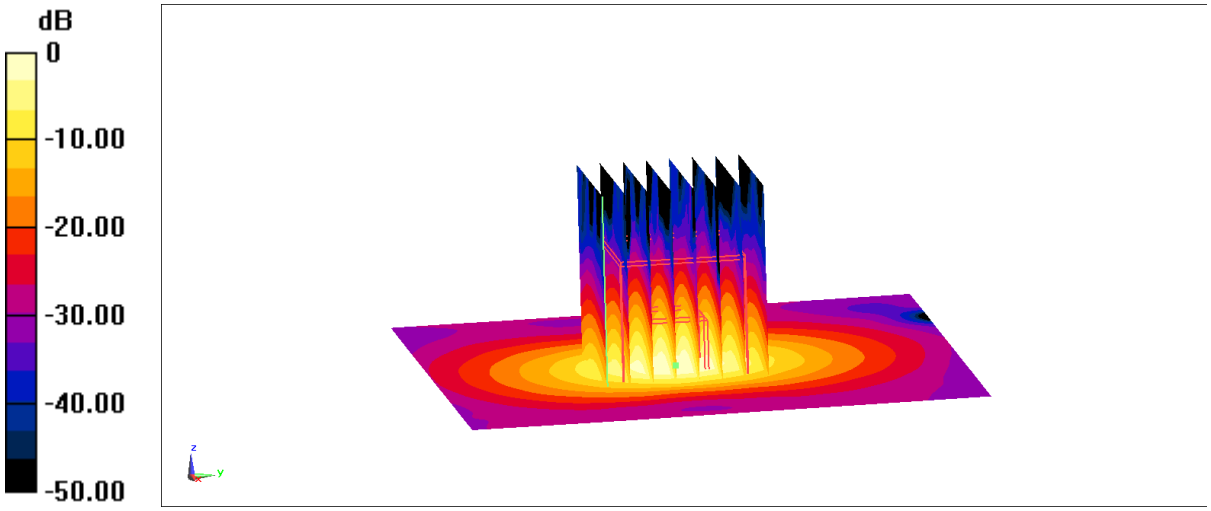
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.93 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 36.2 W/kg

SAR(1 g) = 8.3 W/kg; SAR(10 g) = 2.42 W/kg

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



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

5750 MHz

Date: 2023/8/26

Electronics: DAE4 Sn777

Medium: H700-6000M

Medium parameters used: f = 5750 MHz; σ = 5.099 S/m; εr = 34.18; ρ = 1000 kg/m3

Ambient Temperature:23.3℃ Liquid Temperature: 22.5℃

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

Probe: EX3DV4 – SN7517 ConvF(5.16, 4.72, 4.83)

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

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

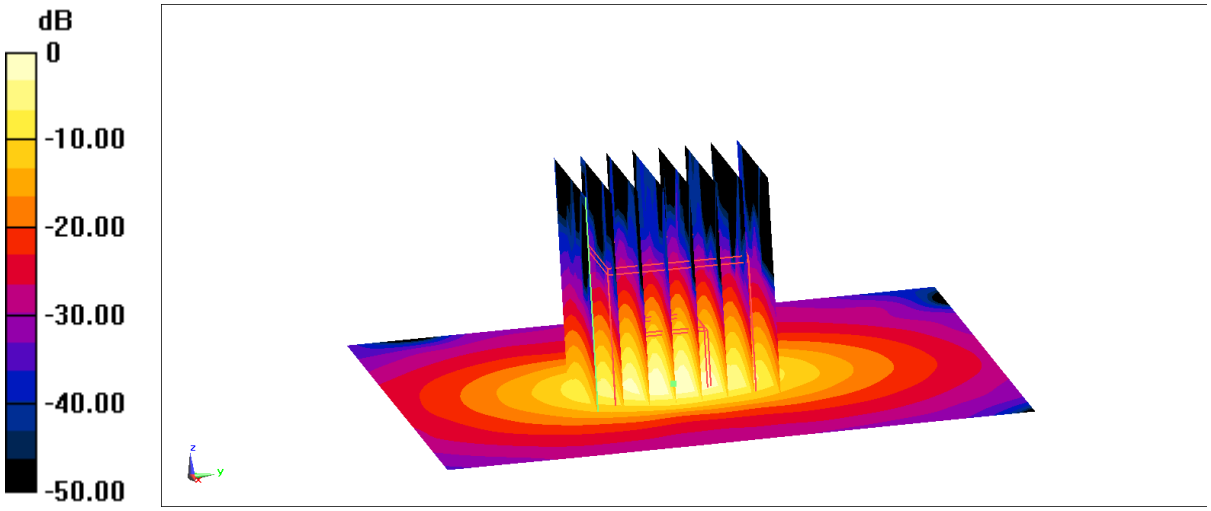
Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.08 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 37.1 W/kg

SAR(1 g) = 8 W/kg; SAR(10 g) = 2.31 W/kg

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

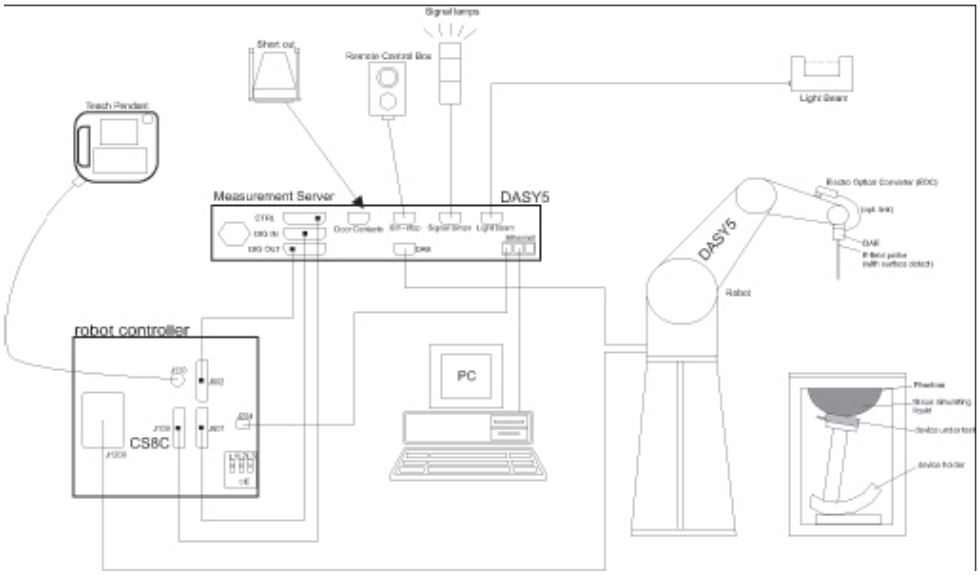


0 dB = 19.6 W/kg = 12.92 dBW/kg

ANNEX C SAR Measurement Setup

C.1 Measurement Set-up

The Dasy5 or DASY6 system for performing compliance tests is illustrated above graphically. This system consists of the following items:



Picture C.1SAR Lab Test Measurement Set-up

- A standard high precision 6-axis robot (StäubliTX=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 E℃.
- The Electro-optical converter (E℃) 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 E℃ is required. The E℃ 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 WinXP and the DASY5 or DASY6 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 E℃ 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 DASY6 software reads the reflection durning a software approach and looks for the maximum using 2nd ord curve fitting. The approach is stopped at reaching the maximum.

Picture C.2Near-field Probe

Probe Specifications:

Model: ES3DV3, EX3DV4
Frequency 10MHz — 6.0GHz(EX3DV4)
Range: 10MHz — 4GHz(ES3DV3)
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
± 0.2 dB(30 MHz to 4 GHz) for ES3DV3
DynamicRange: 10 mW/kg — 100W/kg
Probe Length: 330 mm
Probe Tip
Length: 20 mm
Body Diameter: 12 mm
Tip Diameter: 2.5 mm (3.9 mm for ES3DV3)
Tip-Center: 1 mm (2.0mm for ES3DV3)
Application:SAR Dosimetry Testing
Compliance tests ofmobile phones
Dosimetry in strong gradient fields

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 pr℃edure 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/cm^2) 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 inn 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 equates to 1 mW/cm^2.

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/m^3).

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 cl℃k.

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) 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

C.4.3 Measurement Server

The Measurement server is based on a PC/104 CPU broad with CPU (DASY5: 400 MHz, Intel Celeron), chipdisk (DASY5: 128MB), RAM DASY5: 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 broad, which is directly connected to the PC/104 bus of the CPU broad.

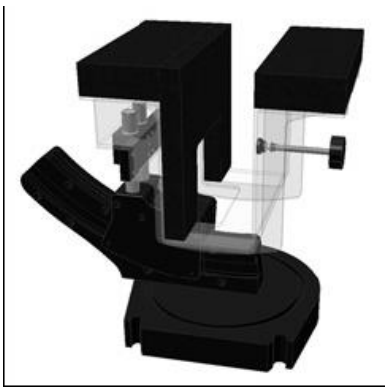
The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical pr℃esses. All connections are supervised by a watchdog, and disconnection 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.6 Server for DASY 5

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 ±0.5mm would produce a SAR uncertainty of ±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 are 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 ε=3 and loss tangent δ=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 C7-1: Device Holder



Picture C.7-2: 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).

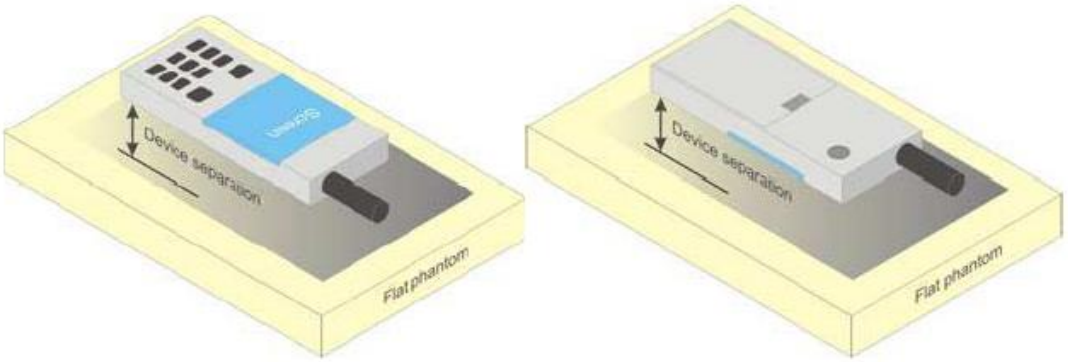
Shell Thickness:	2±0. 2 mm
Filling Volume:	Approx. 25 liters
Dimensions:	810 x l000 x 500 mm (H x L x W)
Available:	Special

Picture C.8: SAM Twin Phantom

ANNEX D Position of the wireless device in relation to the phantom

D.1 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.

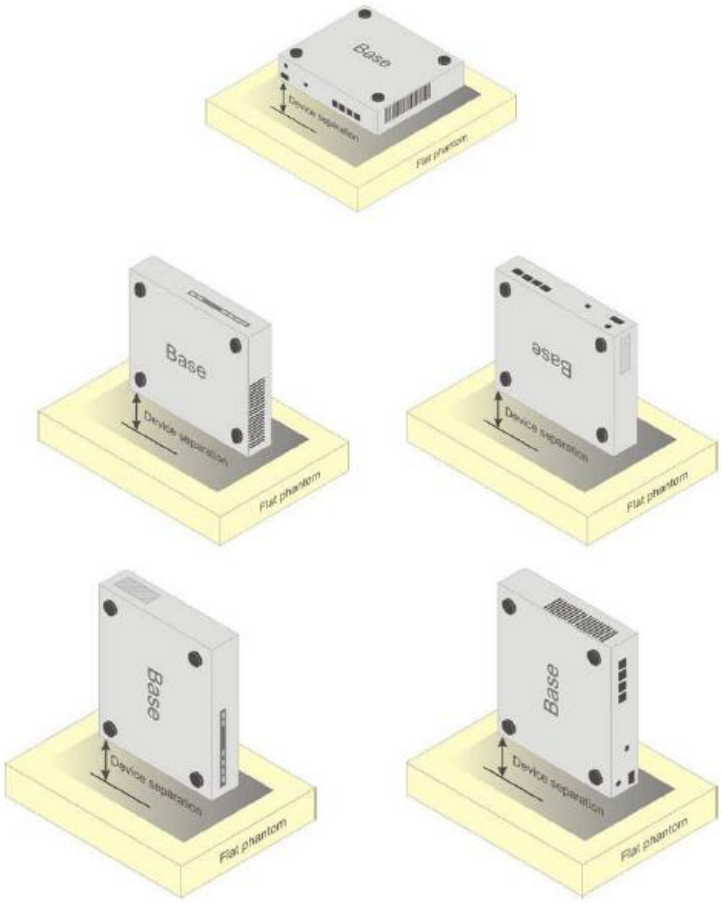


Picture D.4Test positions for body-worn devices

D.2 Desktop device

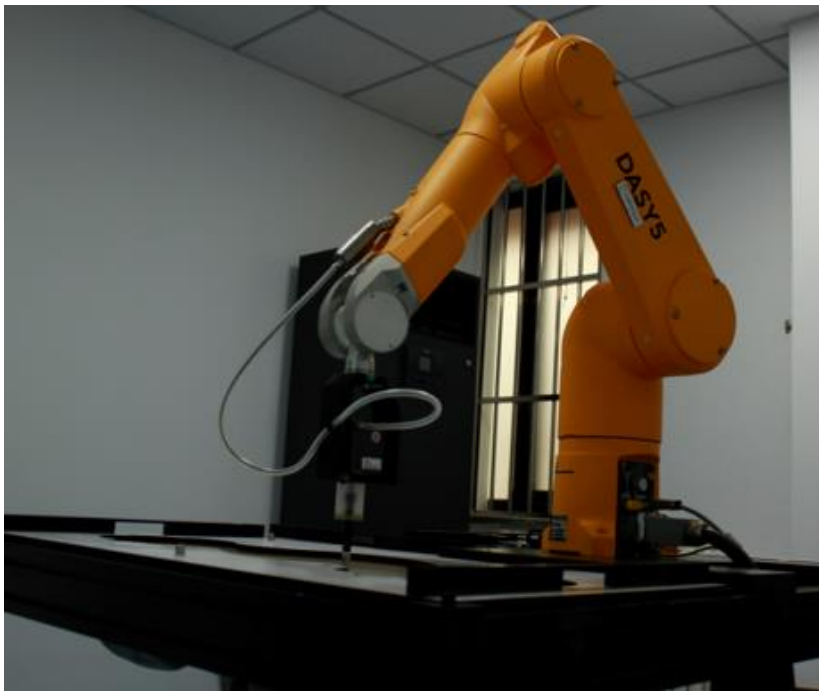
A typical example of a desktop device is a wireless enabled desktop computer placed on a table or desk when used.

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. Picture8.5 show 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.3 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	ε=41.5 σ=0.90	ε=55.2 σ=0.97	ε=40.0 σ=1.40	ε=53.3 σ=1.52	ε=39.2 σ=1.80	ε=52.7 σ=1.95	ε=35.3 σ=5.27	ε=48.2 σ=6.00

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.3: System Validation for 7517

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
7517	Head 13MHz	February 24,2023	13MHz	OK
7517	Head 64MHz	February 24,2023	64MHz	OK
7517	Head 150MHz	February 24,2023	150MHz	OK
7517	Head 300MHz	February 24,2023	300MHz	OK
7517	Head 450MHz	February 24,2023	450MHz	OK
7517	Head 750MHz	February 24,2023	750MHz	OK
7517	Head 835MHz	February 24,2023	835MHz	OK
7517	Head 900MHz	February 24,2023	900MHz	OK
7517	Head 1450MHz	February 24,2023	1450MHz	OK
7517	Head 1750MHz	February 25,2023	1750MHz	OK
7517	Head 1810MHz	February 25,2023	1810MHz	OK
7517	Head 1900MHz	February 25,2023	1900MHz	OK
7517	Head 2000MHz	February 25,2023	2000MHz	OK
7517	Head 2100MHz	February 25,2023	2100MHz	OK
7517	Head 2300MHz	February 25,2023	2300MHz	OK
7517	Head 2450MHz	February 25,2023	2450MHz	OK
7517	Head 2600MHz	February 25,2023	2600MHz	OK
7517	Head 3300MHz	February 26,2023	3300MHz	OK
7517	Head 3500MHz	February 26,2023	3500MHz	OK
7517	Head 3700MHz	February 26,2023	3700MHz	OK
7517	Head 3900MHz	February 26,2023	3900MHz	OK
7517	Head 4100MHz	February 26,2023	4100MHz	OK
7517	Head 4200MHz	February 26,2023	4200MHz	OK
7517	Head 4400MHz	February 26,2023	4400MHz	OK
7517	Head 4600MHz	February 26,2023	4600MHz	OK
7517	Head 4800MHz	February 26,2023	4800MHz	OK
7517	Head 4950MHz	February 26,2023	4950MHz	OK
7517	Head 5200MHz	February 27,2023	5200MHz	OK
7517	Head 5250MHz	February 27,2023	5250MHz	OK
7517	Head 5300MHz	February 27,2023	5300MHz	OK
7517	Head 5500MHz	February 27,2023	5500MHz	OK
7517	Head 5600MHz	February 27,2023	5600MHz	OK
7517	Head 5750MHz	February 27,2023	5750MHz	OK
7517	Head 5800MHz	February 27,2023	5800MHz	OK
7517	Head 6500MHz	February 27,2023	6500MHz	OK
7517	Head 7000MHz	February 27,2023	7000MHz	OK

Table F.2: System Validation for 7548

Probe SN.	Liquid name	Validation date	Frequency point	Status (OK or Not)
7548	Head 750MHz	August.2,2022	750 MHz	OK
7548	Head 900MHz	August.2,2022	900 MHz	OK
7548	Head 1450MHz	August.2,2022	1450 MHz	OK
7548	Head 1750MHz	August.2,2022	1750 MHz	OK
7548	Head 1900MHz	August.2,2022	1900 MHz	OK
7548	Head 2000MHz	August.3,2022	2000 MHz	OK
7548	Head 2300MHz	August.3,2022	2300 MHz	OK
7548	Head 2450MHz	August.3,2022	2450 MHz	OK
7548	Head 2600MHz	August.3,2022	2600 MHz	OK
7548	Head 3300MHz	August.3,2022	3300 MHz	OK
7548	Head 3500MHz	August.3,2022	3500 MHz	OK
7548	Head 3700MHz	August.3,2022	3700 MHz	OK
7548	Head 5250MHz	August.4,2022	5250 MHz	OK
7548	Head 5600MHz	August.4,2022	5600 MHz	OK
7548	Head 5750MHz	August.4,2022	5750 MHz	OK

ANNEX G PROBE CALIBRATION CERTIFICATE

Probe 7517 Calibration Certificate

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client	CTTL (Auden)	Certificate No	EX-7517_Jan23

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:7517
Calibration procedure(s)	QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6, QA CAL-25.v8 Calibration procedure for dosimetric E-field probes
Calibration date	January 27, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3) °C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-22 (OCP-DAK3.5-1249_Oct22)	Oct-23
OCP DAK-12	SN: 1016	20-Oct-22 (OCP-DAK12-1016_Oct22)	Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
DAE4	SN: 660	10-Oct-22 (No. DAE4-660_Oct22)	Oct-23
Reference Probe ES3DV2	SN: 3013	06-Jan-23 (No. ES3-3013_Jan23)	Jan-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Jeton Kastrati	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	

Issued: February 03, 2023

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Glossary

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z*: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- *DCPx,y,z*: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- *PAR*: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters*: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

Parameters of Probe: EX3DV4 - SN:7517

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc ($k = 2$)
Norm (μV/(V/m)^2) [A]	0.48	0.51	0.54	±10.1%
DCP (mV) [B]	96.0	95.0	97.0	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB$\sqrt{\mu V}$	C	D dB	VR mV	Max dev.	Max Unc[E] $k = 2$
0	CW	X	0.00	0.00	1.00	0.00	114.5	±2.4%	±4.7%
		Y	0.00	0.00	1.00		120.2		
		Z	0.00	0.00	1.00		143.2		
10352	Pulse Waveform (200Hz, 10%)	X	5.12	73.33	13.52	10.00	60.0	±3.1%	±9.6%
		Y	2.09	63.63	8.90		60.0		
		Z	20.00	88.14	18.44		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	86.91	16.39	6.99	80.0	±2.1%	±9.6%
		Y	1.23	62.23	7.44		80.0		
		Z	20.00	89.91	17.98		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	87.17	15.04	3.98	95.0	±1.3%	±9.6%
		Y	0.67	61.60	6.49		95.0		
		Z	20.00	93.97	18.38		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	84.43	12.64	2.22	120.0	±1.1%	±9.6%
		Y	0.59	63.73	7.01		120.0		
		Z	20.00	96.54	18.21		120.0		
10387	QPSK Waveform, 1 MHz	X	1.54	67.24	14.89	1.00	150.0	±3.0%	±9.6%
		Y	1.46	66.17	14.39		150.0		
		Z	1.41	65.65	14.01		150.0		
10388	QPSK Waveform, 10 MHz	X	2.05	67.83	15.64	0.00	150.0	±1.1%	±9.6%
		Y	1.94	66.59	15.05		150.0		
		Z	1.90	66.31	14.84		150.0		
10396	64-QAM Waveform, 100 kHz	X	2.64	69.92	18.57	3.01	150.0	±1.4%	±9.6%
		Y	2.12	65.93	16.62		150.0		
		Z	2.10	65.89	16.87		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.38	67.04	15.73	0.00	150.0	±2.1%	±9.6%
		Y	3.30	66.42	15.40		150.0		
		Z	3.27	66.26	15.31		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.67	65.69	15.56	0.00	150.0	±3.8%	±9.6%
		Y	4.57	65.30	15.32		150.0		
		Z	4.57	65.21	15.29		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of Norm X,Y,Z do not affect the E^2-field uncertainty inside TSL (see Pages 5 to 7).
[B] Linearization parameter uncertainty for maximum specified field strength.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Parameters of Probe: EX3DV4 - SN:7517

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 msV^{-2}	T2 msV^{-1}	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
x	33.3	248.62	35.47	6.24	0.08	5.04	1.01	0.20	1.01
y	31.4	232.68	35.06	9.43	0.00	4.97	0.38	0.21	1.00
z	32.2	242.61	36.05	6.15	0.00	5.05	0.00	0.25	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	17.5°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3–4 mm for an *Area Scan* job.

Parameters of Probe: EX3DV4 - SN:7517

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz)[C]	Relative Permittivity[F]	Conductivity[F] (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha[G]	Depth[G] (mm)	Unc ($k = 2$)
13	55.0	0.75	18.20	18.20	18.20	0.00	1.25	±13.3%
64	54.2	0.75	13.30	13.30	13.30	0.00	1.25	±13.3%
150	52.3	0.76	12.22	12.22	12.22	0.00	1.25	±13.3%
300	45.3	0.87	11.41	11.41	11.41	0.09	1.00	±13.3%
450	43.5	0.87	10.53	10.53	10.53	0.16	1.30	±13.3%
750	41.9	0.89	9.39	8.81	9.17	0.40	1.27	±12.0%
835	41.5	0.90	9.84	8.48	8.98	0.39	1.27	±12.0%
900	41.5	0.97	9.36	9.08	9.25	0.40	1.27	±12.0%
1450	40.5	1.20	8.28	7.60	7.84	0.40	1.27	±12.0%
1640	40.2	1.31	8.28	7.42	7.59	0.40	1.27	±12.0%
1750	40.1	1.37	8.43	7.84	8.08	0.28	1.27	±12.0%
1810	40.0	1.40	8.42	7.76	8.00	0.29	1.27	±12.0%
1900	40.0	1.40	8.34	7.75	7.97	0.29	1.27	±12.0%
2000	40.0	1.40	8.05	7.46	7.73	0.29	1.27	±12.0%
2100	39.8	1.49	8.20	7.54	7.85	0.30	1.27	±12.0%
2300	39.5	1.67	7.92	7.31	7.58	0.30	1.27	±12.0%
2450	39.2	1.80	7.75	7.16	7.37	0.30	1.27	±12.0%
2600	39.0	1.96	7.75	7.17	7.36	0.30	1.27	±12.0%
3300	38.2	2.71	6.84	6.29	6.48	0.33	1.27	±14.0%
3500	37.9	2.91	6.90	6.34	6.53	0.34	1.27	±14.0%
3700	37.7	3.12	6.74	6.21	6.39	0.34	1.27	±14.0%
3900	37.5	3.32	6.67	6.12	6.31	0.36	1.27	±14.0%
4100	37.2	3.53	6.66	6.11	6.31	0.37	1.27	±14.0%
4200	37.1	3.63	6.71	6.12	6.35	0.36	1.27	±14.0%
4400	36.9	3.84	6.49	5.93	6.14	0.37	1.27	±14.0%
4600	36.7	4.04	6.60	6.01	6.24	0.37	1.27	±14.0%
4800	36.4	4.25	6.74	6.12	6.35	0.38	1.27	±14.0%
4950	36.3	4.40	5.97	5.43	5.58	0.43	1.36	±14.0%

[C] Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

[F] The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

Parameters of Probe: EX3DV4 - SN:7517

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz)[C]	Relative Permittivity[F]	Conductivity[F] (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha[G]	Depth[G] (mm)	Unc ($k = 2$)
5200	36.0	4.66	5.78	5.32	5.48	0.38	1.60	±14.0%
5250	35.9	4.71	5.83	5.28	5.47	0.34	1.62	±14.0%
5300	35.9	4.76	5.50	5.17	5.32	0.38	1.66	±14.0%
5500	35.6	4.96	5.06	4.69	4.71	0.46	1.61	±14.0%
5600	35.5	5.07	4.91	4.55	4.63	0.44	1.67	±14.0%
5750	35.4	5.22	5.16	4.72	4.83	0.43	1.75	±14.0%
5800	35.3	5.27	5.00	4.59	4.69	0.44	1.78	±14.0%

[C] Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

[F] The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

Parameters of Probe: EX3DV4 - SN:7517

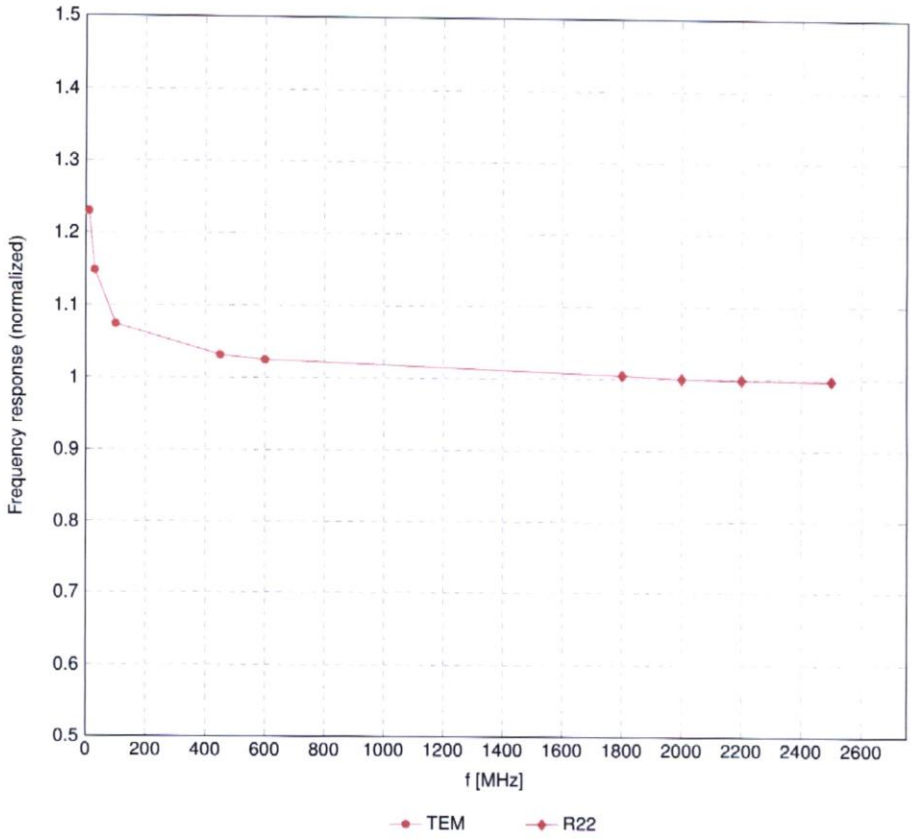
Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz)[C]	Relative Permittivity[F]	Conductivity[F] (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha[G]	Depth[G] (mm)	Unc ($k = 2$)
6500	34.5	6.07	5.42	4.77	4.86	0.20	2.50	±18.6%
7000	33.9	6.65	5.79	4.99	5.24	0.20	2.50	±18.6%

[C] Frequency validity at 6.5 GHz is −600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.
[F] The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

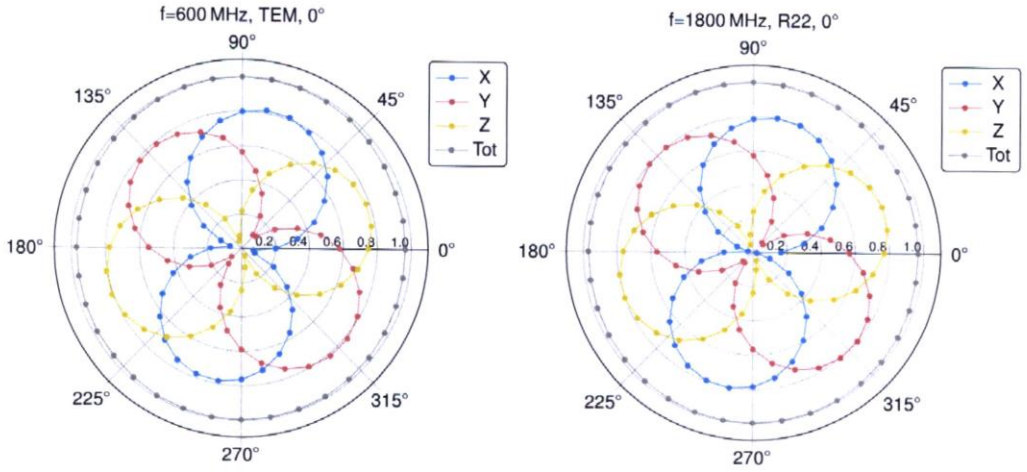
Frequency Response of E-Field

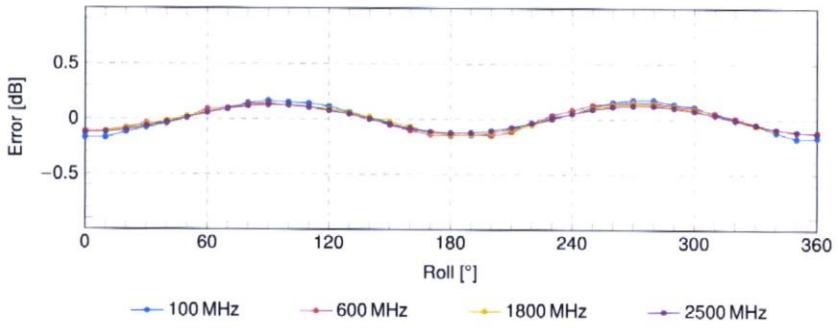
(TEM-Cell:ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

Receiving Pattern (ϕ), $\vartheta = 0°$

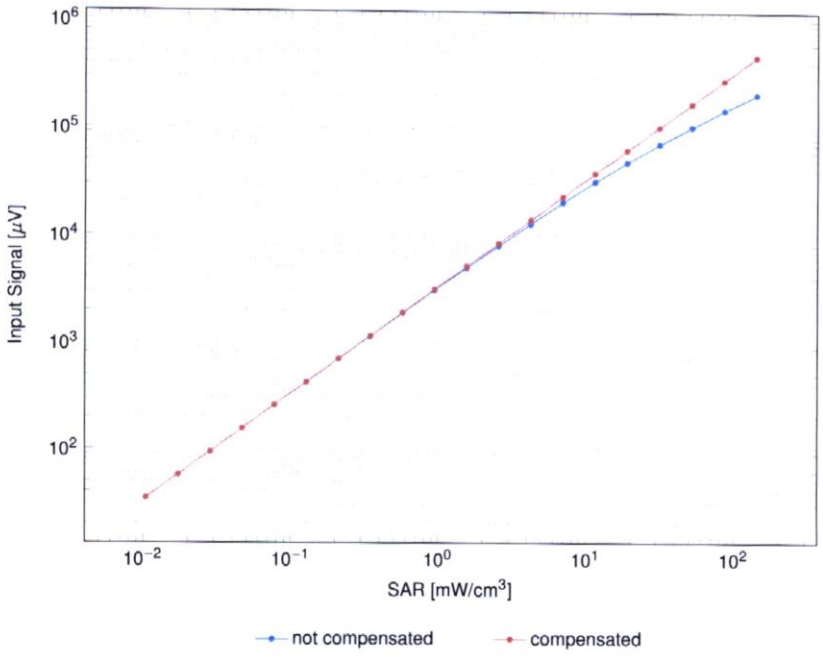


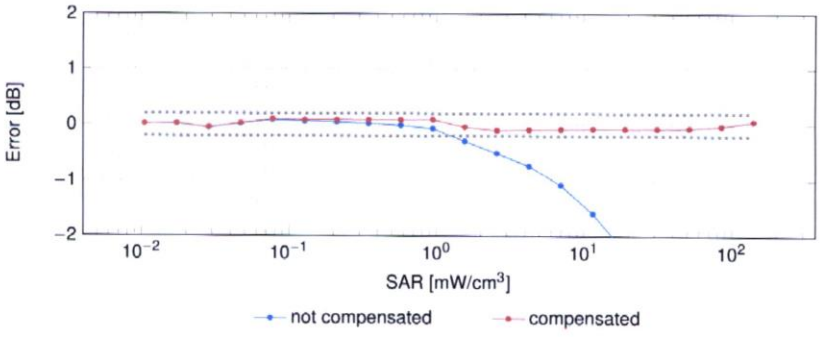


Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

Dynamic Range f(SAR$_{head}$)

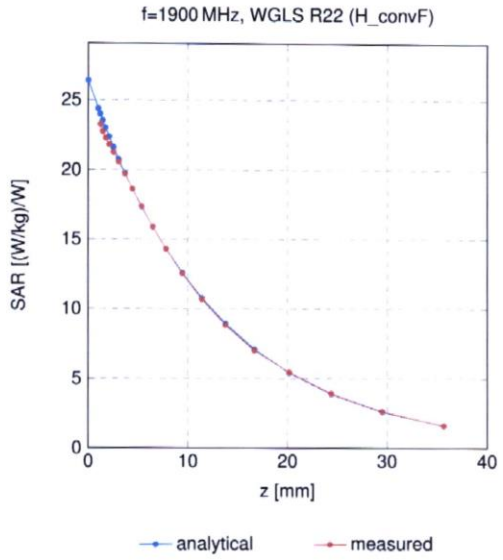
(TEM cell, f_{eval} = 1900 MHz)





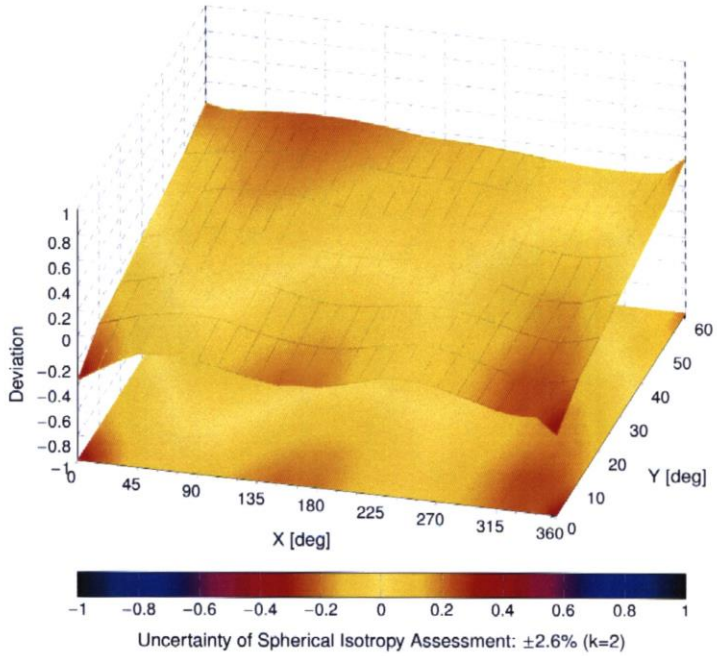
Uncertainty of Linearity Assessment: ±0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), f = 900 MHz



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc^E $k = 2$
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6