

N12 Body

Date: 12/26/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 713.5$ MHz; $\sigma = 0.9078$ S/m; $\epsilon_r = 43.29$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n12 (0) Frequency: 713.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

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

Maximum value of SAR (interpolated) = 0.390 W/kg

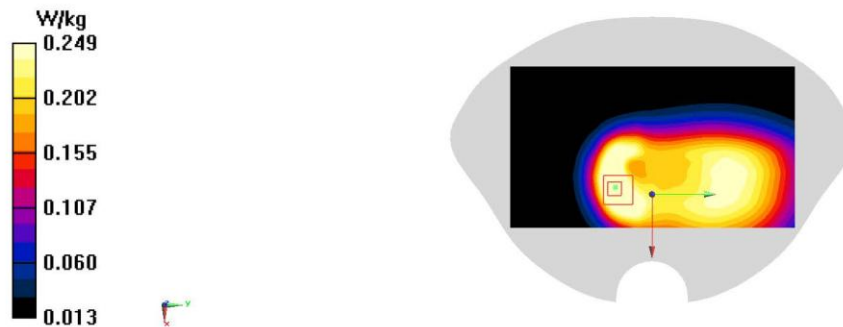
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.05 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.232 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.249 W/kg



N25 Head

Date: 11/12/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.428$ S/m; $\epsilon_r = 41.853$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G N25 (0) Frequency: 1882.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1)

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

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

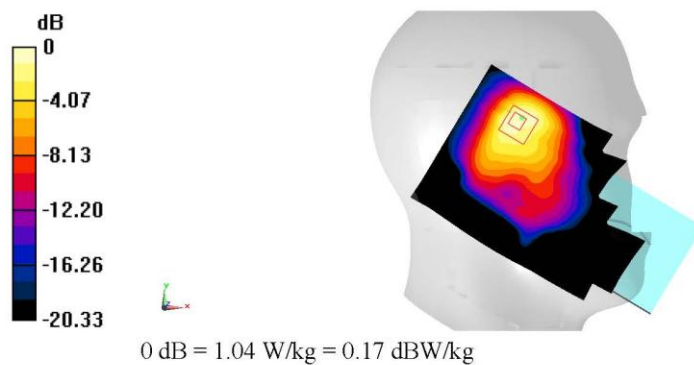
Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.20 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.653 W/kg; SAR(10 g) = 0.347 W/kg

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



N25 Body

Date: 11/12/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 1895$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 41.813$; $\rho = 1000$ kg/m³

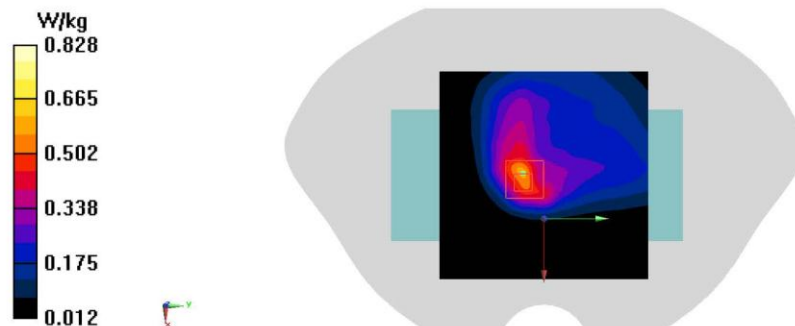
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G N25 (0) Frequency: 1895 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(8.1, 8.1, 8.1)

Area Scan (81x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.581 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 15.56 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.272 W/kg
Maximum value of SAR (measured) = 0.828 W/kg



N30 Head

Date: 11/14/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2312.5$ MHz; $\sigma = 1.738$ S/m; $\epsilon_r = 41.105$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n30 (0) Frequency: 2312.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.85, 7.85, 7.85);

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

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

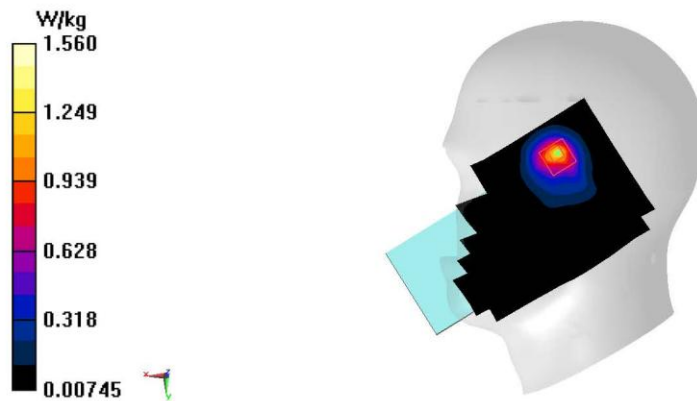
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 9.543 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.513 W/kg

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



N30 Body

Date: 11/14/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.737$ S/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³

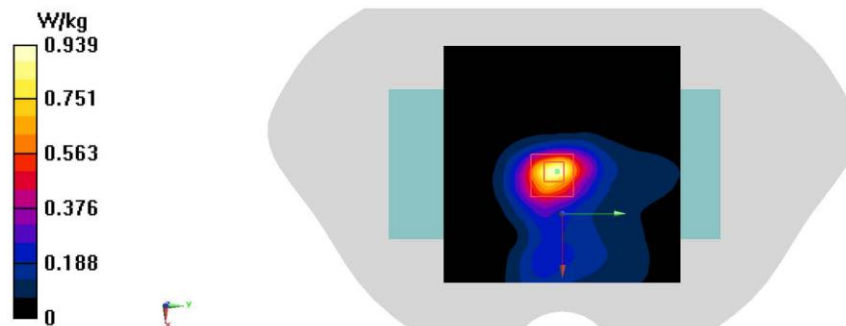
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G n30 (0) Frequency: 2310 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.85, 7.85, 7.85)

Area Scan (101x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.939 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 21.86 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.369 W/kg
Maximum value of SAR (measured) = 1.28 W/kg



N41 PC2 Head

Date: 11/15/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2555.02$ MHz; $\sigma = 2.016$ S/m; $\epsilon_r = 40.663$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n41 (0) Frequency: 2555.02 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.44, 7.44, 7.44)

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

Maximum value of SAR (interpolated) = 1.52 W/kg

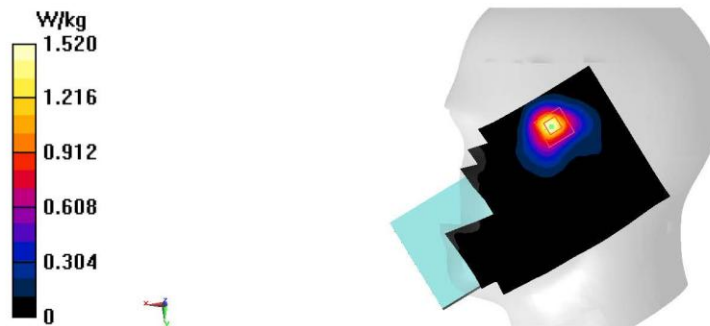
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.283 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 0.867 W/kg; SAR(10 g) = 0.393 W/kg

Maximum value of SAR (measured) = 1.61 W/kg



N41 Body

Date: 11/15/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2555.02$ MHz; $\sigma = 2.016$ S/m; $\epsilon_r = 40.663$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n41 (0) Frequency: 2555.02 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.44, 7.44, 7.44);

Area Scan (101x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.73 W/kg

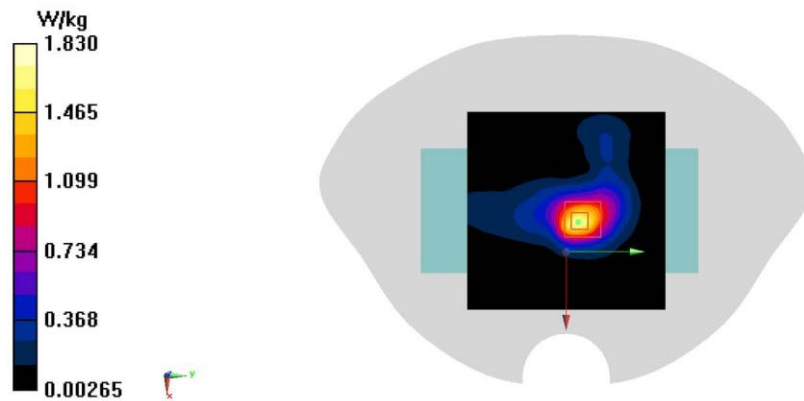
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 19.10 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.36 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.479 W/kg

Maximum value of SAR (measured) = 1.83 W/kg



N48 Head

Date: 11/18/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3642.99$ MHz; $\sigma = 2.995$ S/m; $\epsilon_r = 38.345$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n48 (0) Frequency: 3642.99 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(6.48, 6.48, 6.48);

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

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

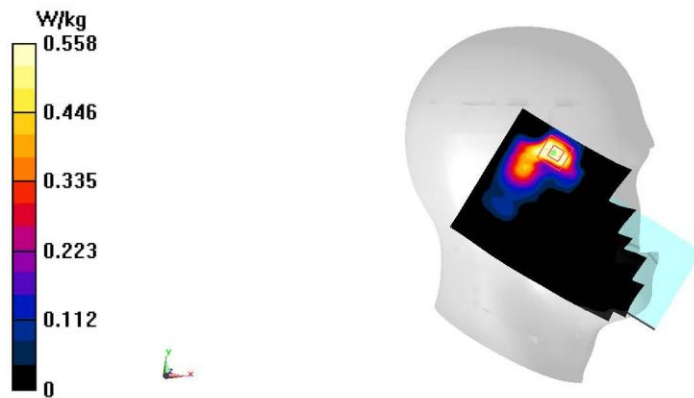
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.692 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.421 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.558 W/kg



N48 Body

Date: 11/17/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3560.01$ MHz; $\sigma = 2.933$ S/m; $\epsilon_r = 38.465$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n48 (0) Frequency: 3560.01 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(6.73, 6.73, 6.73);

Area Scan (121x181x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

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

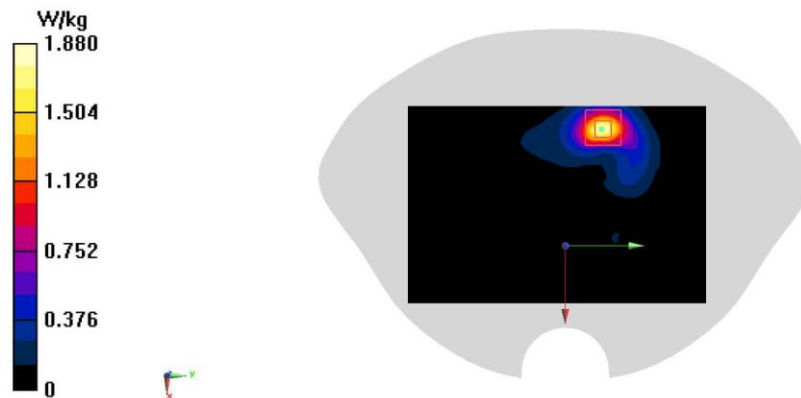
Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 3.480 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.57 W/kg

SAR(1 g) = 0.982 W/kg; SAR(10 g) = 0.378 W/kg

Maximum value of SAR (measured) = 1.88 W/kg



N66 Head

Date: 11/9/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1777.5$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 42.022$; $\rho = 1000$ kg/m³

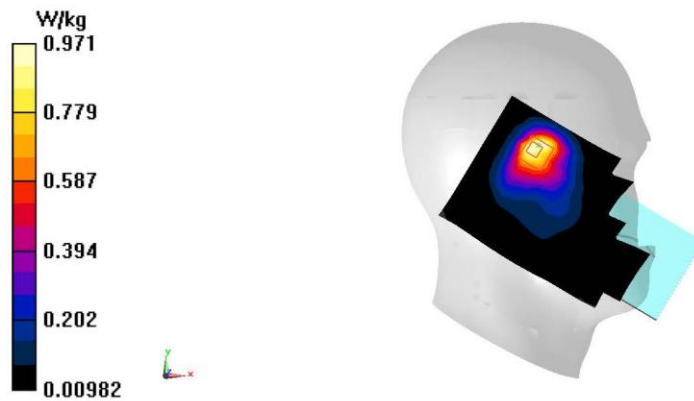
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

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

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

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 13.04 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.352 W/kg
Maximum value of SAR (measured) = 0.971 W/kg



N66 Body

Date: 11/9/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1777.5$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 42.022$; $\rho = 1000$ kg/m³

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

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

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

Area Scan (81x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.427 W/kg

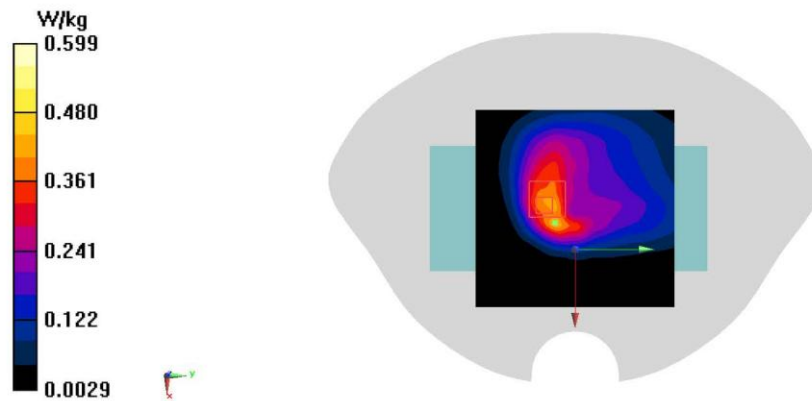
Zoom Scan (7x6x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.79 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.219 W/kg

Maximum value of SAR (measured) = 0.599 W/kg



N70 Head

Date: 11/9/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1702.5$ MHz; $\sigma = 1.314$ S/m; $\epsilon_r = 42.131$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n70 (0) Frequency: 1702.5 MHz Duty Cycle: 1:1

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

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

Maximum value of SAR (interpolated) = 0.834 W/kg

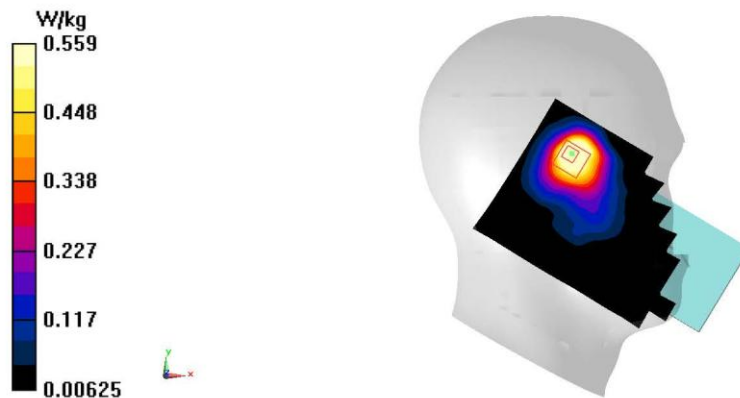
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.599 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.937 W/kg

SAR(1 g) = 0.507 W/kg; SAR(10 g) = 0.280 W/kg

Maximum value of SAR (measured) = 0.559 W/kg



N70 Body

Date: 11/9/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 1702.5$ MHz; $\sigma = 1.314$ S/m; $\epsilon_r = 42.131$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n70 (0) Frequency: 1702.5 MHz Duty Cycle: 1:1

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

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.535 W/kg

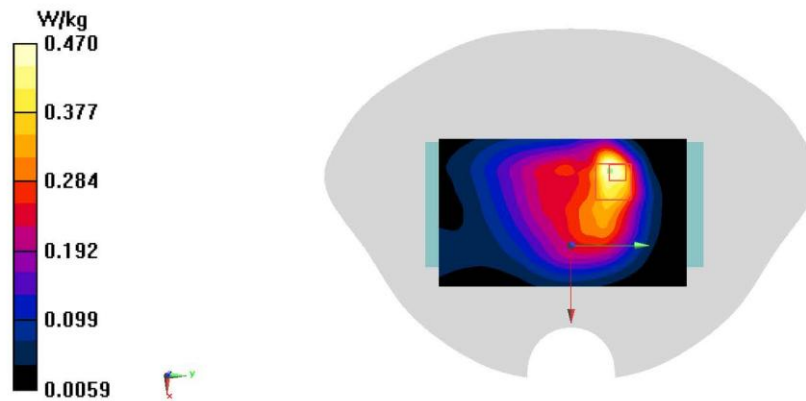
Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.63 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.619 W/kg

SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 0.470 W/kg



N71 Head

Date: 10/25/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (extrapolated): $f = 665.5$ MHz; $\sigma = 0.827$ S/m; $\epsilon_r = 44.734$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G N71 (0) Frequency: 665.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

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

Maximum value of SAR (interpolated) = 0.799 W/kg

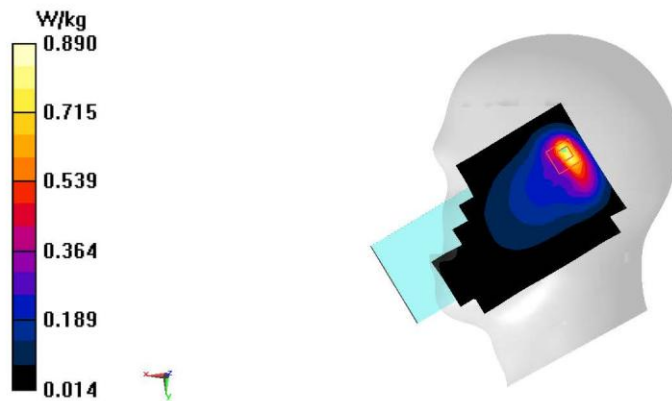
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.63 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.232 W/kg

Maximum value of SAR (measured) = 0.890 W/kg



N71 Body

Date: 10/25/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (extrapolated): $f = 665.5$ MHz; $\sigma = 0.827$ S/m; $\epsilon_r = 44.734$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G N71 (0) Frequency: 665.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

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

Maximum value of SAR (interpolated) = 0.320 W/kg

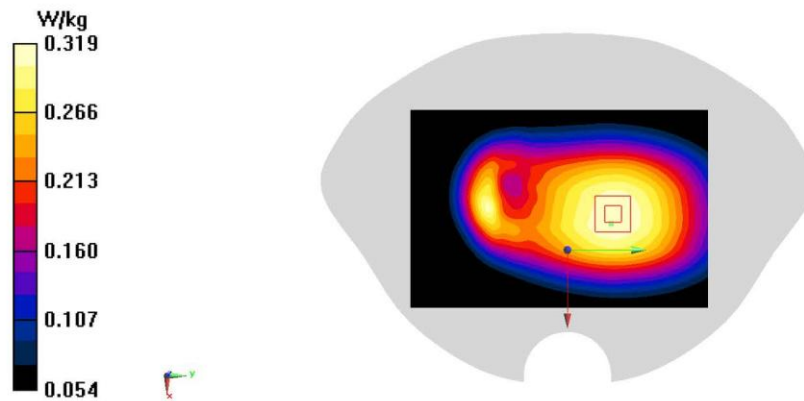
Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.73 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.319 W/kg



N77 Head

Date: 12/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3528.34$ MHz; $\sigma = 2.729$ S/m; $\epsilon_r = 38.24$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5g n77 (0) Frequency: 3528.34 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(6.73, 6.73, 6.73);

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

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

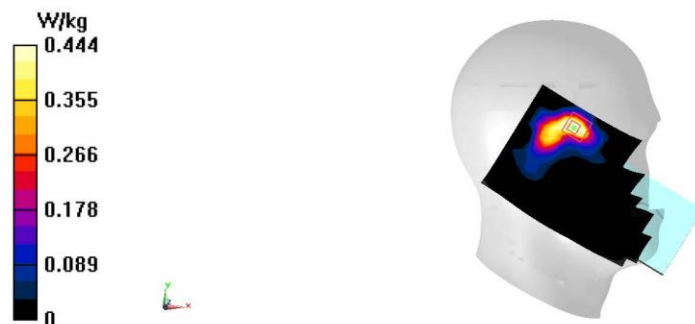
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 5.063 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.379 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.444 W/kg



N77 Body

Date: 12/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3528.34$ MHz; $\sigma = 2.729$ S/m; $\epsilon_r = 38.24$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5g n77 (0) Frequency: 3528.34 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(6.73, 6.73, 6.73);

Area Scan (121x171x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.64 W/kg

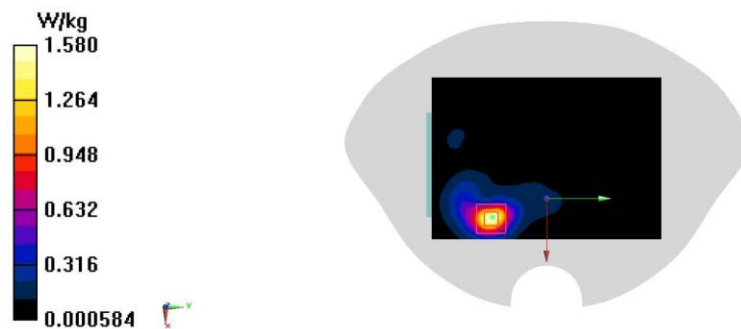
Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 1.887 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.871 W/kg; SAR(10 g) = 0.338 W/kg

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



N78 Head

Date: 12/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3511.67$ MHz; $\sigma = 2.715$ S/m; $\epsilon_r = 38.27$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n78 (0) Frequency: 3511.67 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(6.73, 6.73, 6.73);

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

Maximum value of SAR (interpolated) = 0.873 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 3.476 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.178 W/kg

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



N78 Body

Date: 12/30/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 3568.33$ MHz; $\sigma = 2.767$ S/m; $\epsilon_r = 38.18$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n78 (0) Frequency: 3568.33 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(6.73, 6.73, 6.73);

Area Scan (101x151x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

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

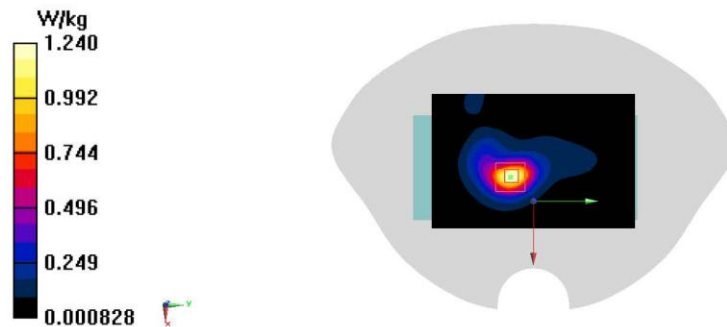
Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 13.54 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.267 W/kg

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



WLAN2.4G Head

Date: 10/29/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.822$ S/m; $\epsilon_r = 40.898$; $\rho = 1000$ kg/m³

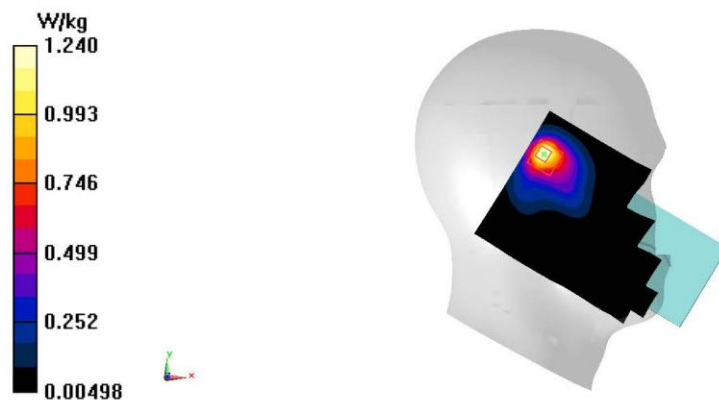
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, WLAN 2450 (0) Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.6, 7.6, 7.6);

Area Scan (101x171x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 1.36 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 10.89 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.65 W/kg
SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.361 W/kg
Maximum value of SAR (measured) = 1.24 W/kg



WLAN2.4G Body

Date: 10/29/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.822$ S/m; $\epsilon_r = 40.898$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, WLan 2450 (0) Frequency: 2412 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.6, 7.6, 7.6);

Area Scan (101x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.624 W/kg

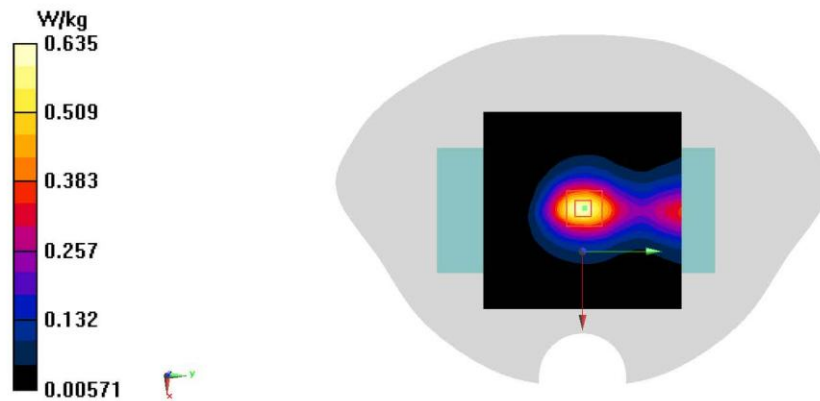
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 15.44 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 0.635 W/kg



WLAN5G Head

Date: 11/2/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.241$ S/m; $\epsilon_r = 34.298$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, WLAN 11a (0) Frequency: 5745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(4.71, 4.71, 4.71);

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

Maximum value of SAR (interpolated) = 2.06 W/kg

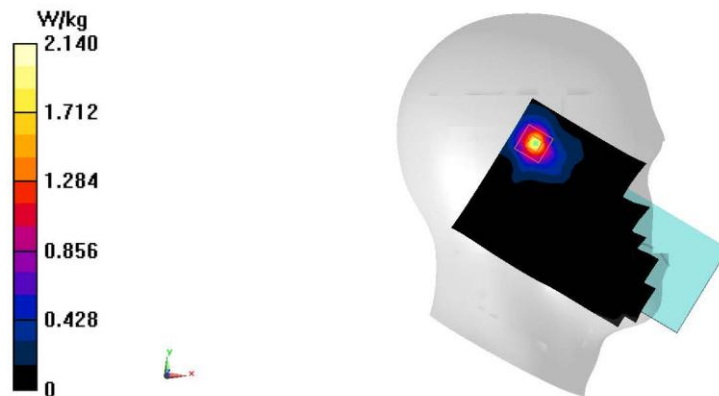
Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 3.423 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.92 W/kg

SAR(1 g) = 0.818 W/kg; SAR(10 g) = 0.271 W/kg

Maximum value of SAR (measured) = 2.14 W/kg



WLAN5G Body

Date: 11/2/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.241$ S/m; $\epsilon_r = 34.298$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, WLAN 11a (0) Frequency: 5745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(4.71, 4.71, 4.71);

Area Scan (121x121x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 2.27 W/kg

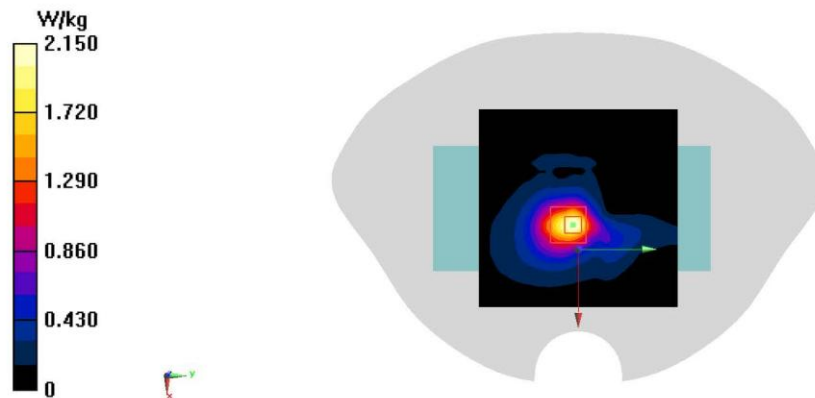
Zoom Scan (8x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 9.503 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.71 W/kg

SAR(1 g) = 0.903 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 2.15 W/kg



BT Body

Date: 10/29/2024

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.873$ S/m; $\epsilon_r = 40.751$; $\rho = 1000$ kg/m³

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

Communication System: UUID 0, Bluetooth (0) Frequency: 2480 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(7.6, 7.6, 7.6);

Area Scan (101x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0148 W/kg

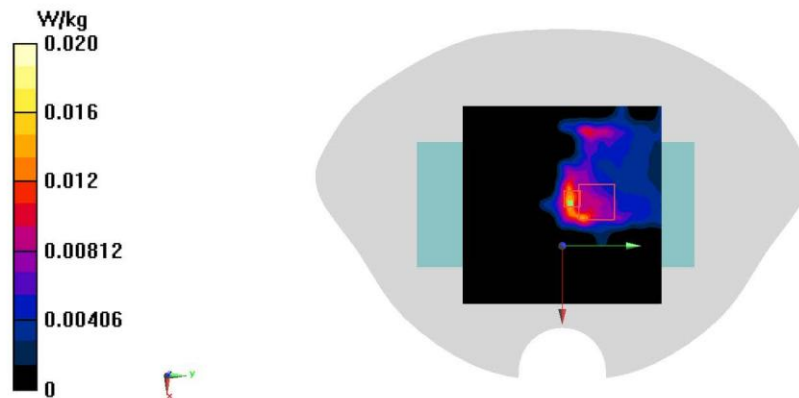
Zoom Scan (8x10x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.247 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0240 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00743 W/kg

Maximum value of SAR (measured) = 0.0203 W/kg



LTEB14 Head

Date: 1/5/2025

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 793$ MHz; $\sigma = 0.938$ S/m; $\epsilon_r = 43.012$; $\rho = 1000$ kg/m³

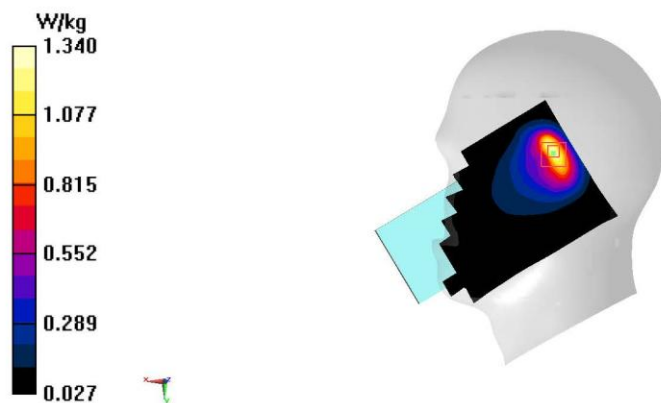
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, LTE Band14 (0) Frequency: 793 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 25.71 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.340 W/kg
Maximum value of SAR (measured) = 1.34 W/kg



F.70

LTEB14 BODY

Date/Time: 1/5/2025

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 793$ MHz; $\sigma = 0.938$ S/m; $\epsilon_r = 43.012$; $\rho = 1000$ kg/m³

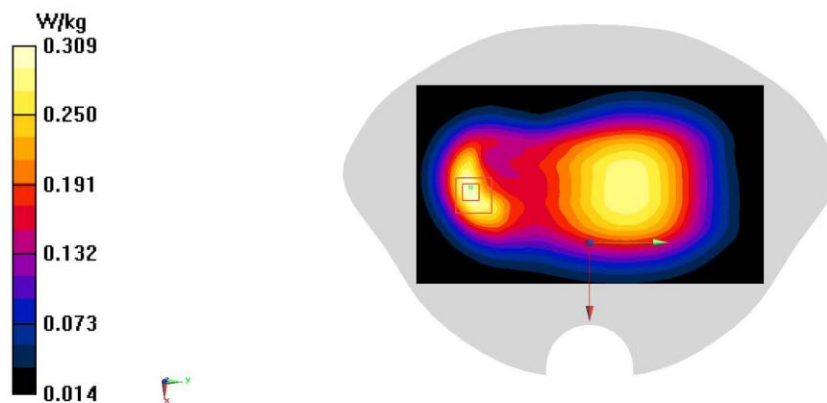
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UUID 0, LTE Band14 (0) Frequency: 793 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.313 W/kg

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 17.04 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.376 W/kg
SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.128 W/kg
Maximum value of SAR (measured) = 0.309 W/kg



F.71

LTEB48 Head

Date: 1/9/2025

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 3625$ MHz; $\sigma = 2.814$ S/m; $\epsilon_r = 38.105$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, LTE Band48 (0) Frequency: 3625 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(6.48, 6.48, 6.48);

Area Scan (101x171x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.758 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 3.134 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.136 W/kg
Maximum value of SAR (measured) = 0.493 W/kg



LTEB48 BODY

Date: 1/9/2025

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 3625$ MHz; $\sigma = 2.814$ S/m; $\epsilon_r = 38.105$; $\rho = 1000$ kg/m³

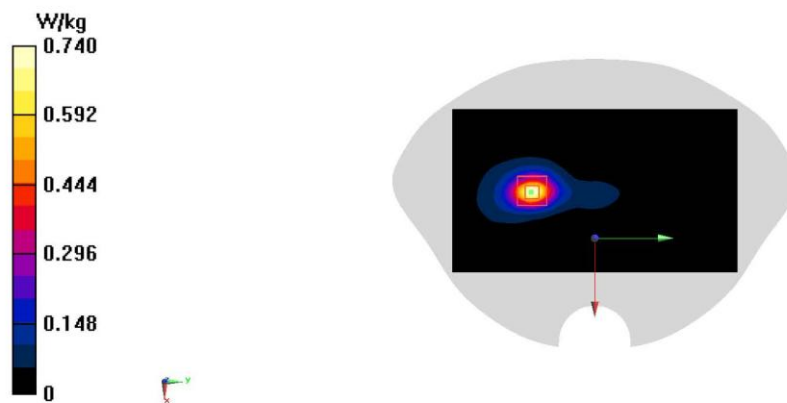
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UUID 0, LTE Band48 (0) Frequency: 3625 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(6.48, 6.48, 6.48);

Area Scan (121x211x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.751 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm
Reference Value = 5.053 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.03 W/kg
SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.156 W/kg
Maximum value of SAR (measured) = 0.740 W/kg



N14 Head

Date: 1/5/2025

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 793$ MHz; $\sigma = 0.938$ S/m; $\epsilon_r = 43.012$; $\rho = 1000$ kg/m³

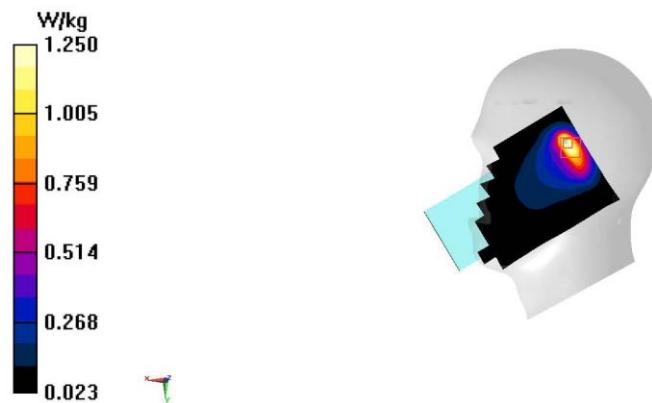
Ambient Temperature: 23.3°C Liquid Temperature: 22.5°C

Communication System: UID 0, 5G n14 (0) Frequency: 793 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (81x141x1): 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: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm Reference Value = 22.13 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.70 W/kg
SAR(1 g) = 0.650 W/kg; SAR(10 g) = 0.344 W/kg
Maximum value of SAR (measured) = 1.25 W/kg



N14 body

Date: 1/5/2025

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 793$ MHz; $\sigma = 0.938$ S/m; $\epsilon_r = 43.012$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n14 (0) Frequency: 793 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (51x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

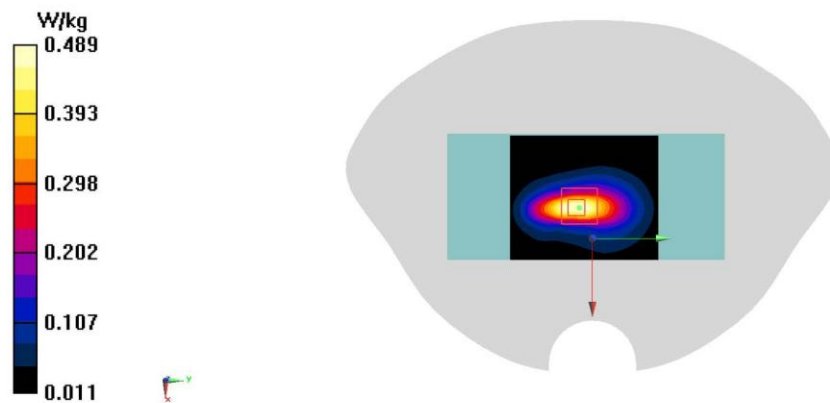
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 16.09 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.632 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.489 W/kg



F.75

N26 Head

Date: 1/5/2025

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.952$ S/m; $\epsilon_r = 42.872$; $\rho = 1000$ kg/m³

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

Communication System: UID 0, 5G n26 (0) Frequency: 831.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

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

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

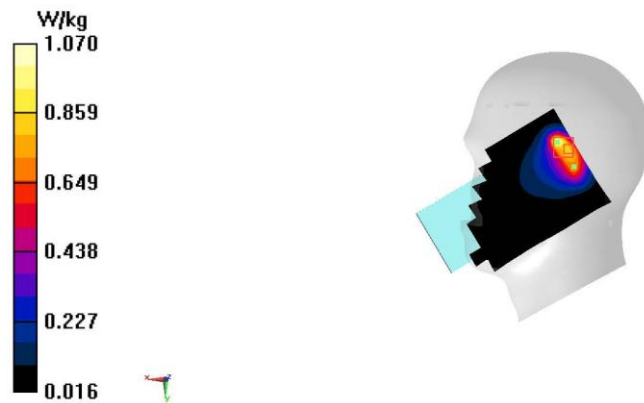
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.37 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.595 W/kg; SAR(10 g) = 0.303 W/kg

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



N26 body

Date: 1/5/2025

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.952$ S/m; $\epsilon_r = 42.872$; $\rho = 1000$ kg/m³

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

Communication System: UUID 0, 5G n26 (0) Frequency: 831.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7673 ConvF(10.45, 10.45, 10.45);

Area Scan (51x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.568 W/kg

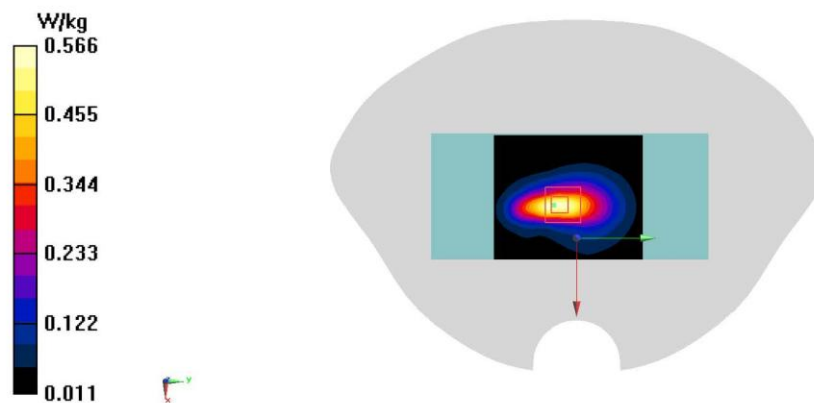
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.50 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.730 W/kg

SAR(1 g) = 0.352 W/kg; SAR(10 g) = 0.185 W/kg

Maximum value of SAR (measured) = 0.566 W/kg



ANNEX B System Verification Results

750 MHz

Date: 2024/10/25

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.864 \text{ mho/m}$; $\epsilon_r = 44.49$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7673 ConvF(10.45, 10.45, 10.45)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.81 W/kg

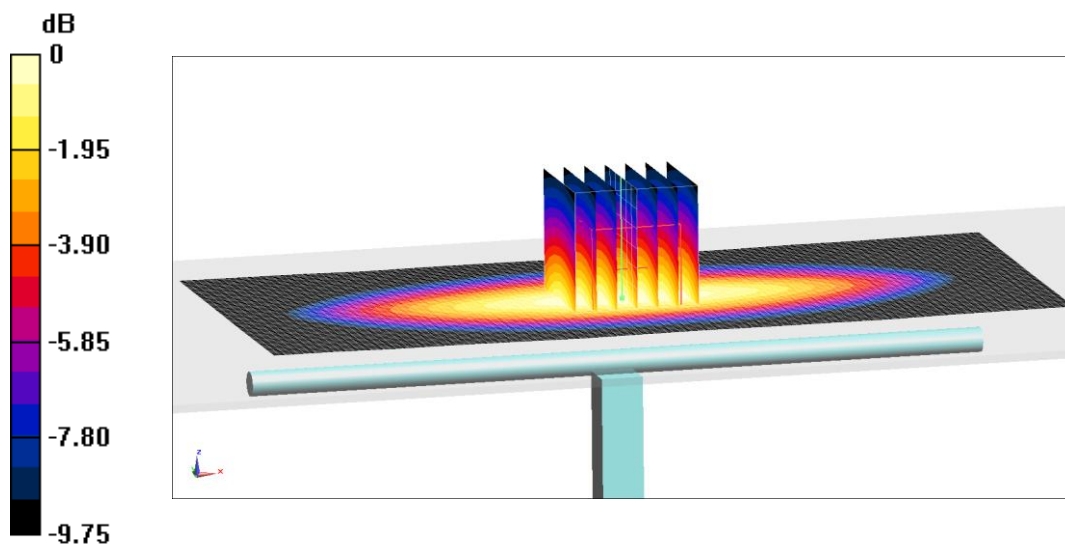
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value =58.91 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.28 W/kg

SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.37 W/kg

Maximum value of SAR (measured) = 2.87 W/kg



0 dB = 2.87 W/kg = 4.58 dB W/kg

835 MHz

Date: 2024/10/29

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 835$ MHz; $\sigma = 0.8558$ mho/m; $\epsilon_r = 44.22$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(10.45, 10.45, 10.45)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 3.41 W/kg

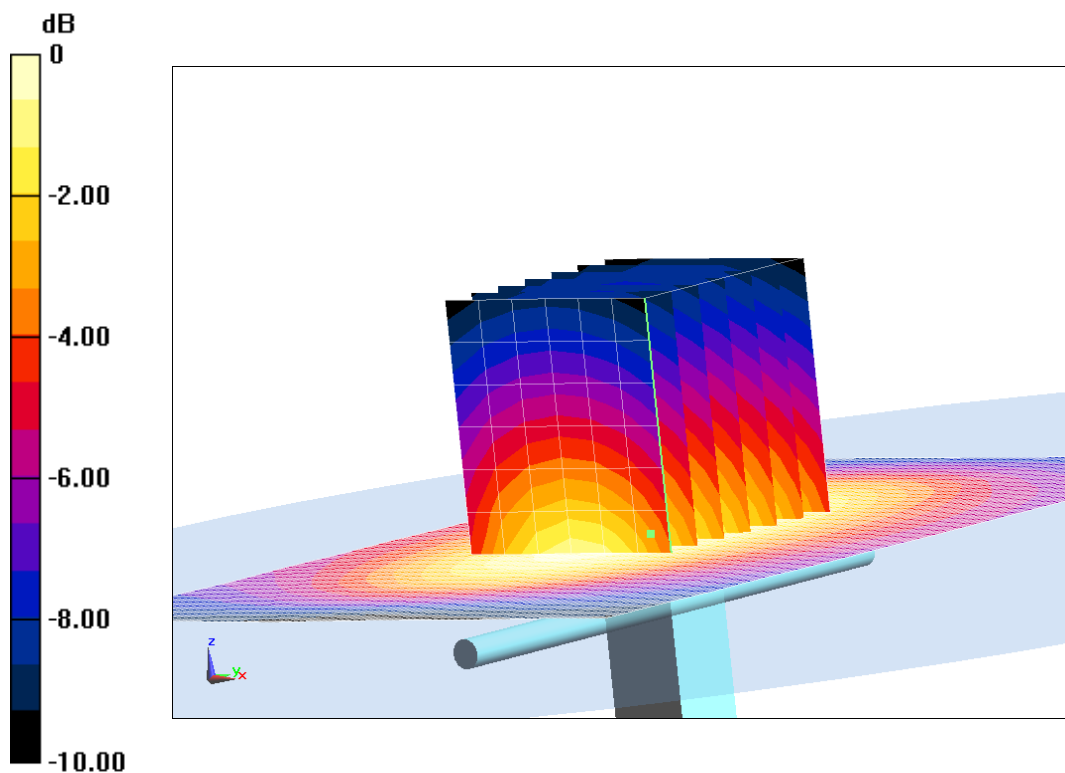
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value =57.88 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.54 W/kg

Maximum value of SAR (measured) = 3.34 W/kg



0 dB = 3.34 W/kg = 5.24 dB W/kg

1750 MHz

Date: 2024/11/9

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.342$ mho/m; $\epsilon_r = 42.03$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

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

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 13.17 W/kg

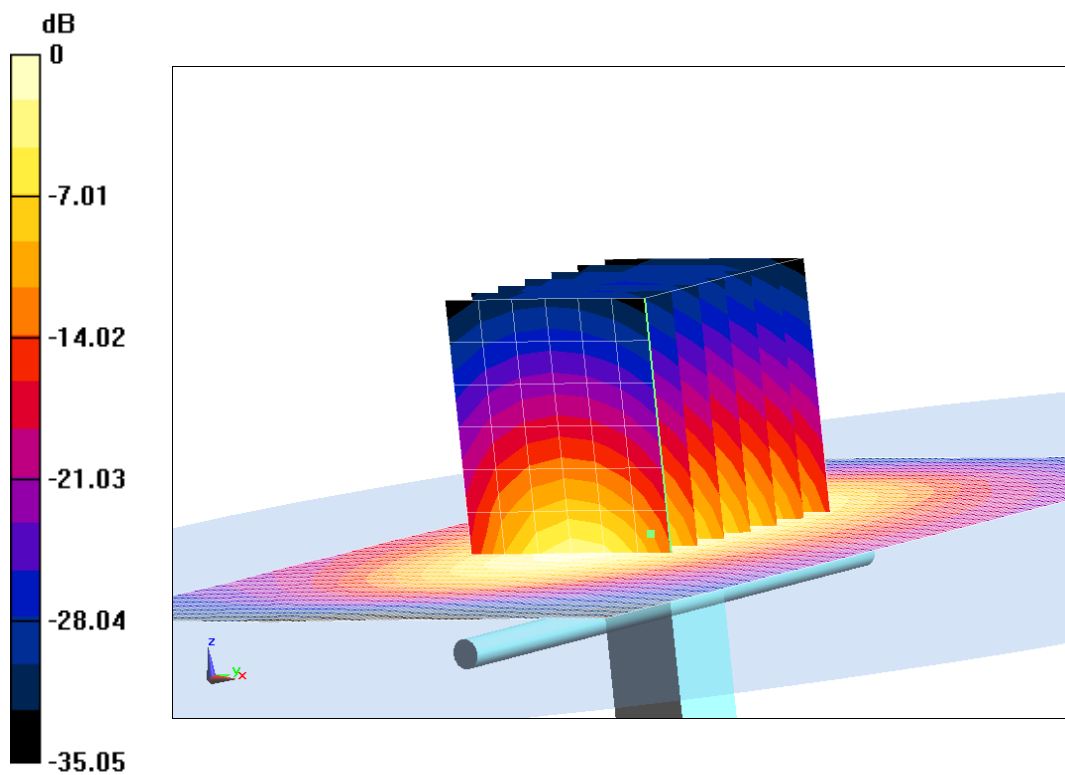
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value =99.87 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 15.2 W/kg

SAR(1 g) = 9.58 W/kg; SAR(10 g) = 4.98 W/kg

Maximum value of SAR (measured) = 13.46 W/kg



0 dB = 13.46 W/kg = 11.29 dB W/kg

1900 MHz

Date: 2024/11/12

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.439$ mho/m; $\epsilon_r = 41.79$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(8.10,8.10,8.10)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

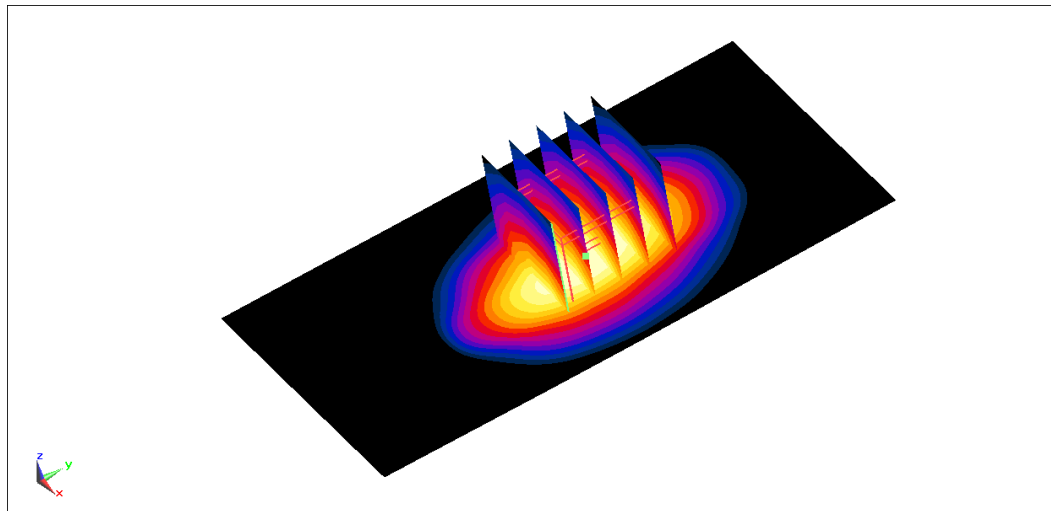
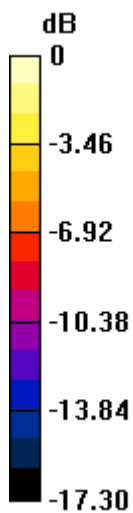
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 81.35 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 9.89 W/kg; SAR(10 g) = 5.16 W/kg

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



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

2300MHz

Date: 2024/11/14

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.731$ S/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³

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

Communication System: CW (0) Frequency: 2300 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(7.85, 7.85, 7.85)

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

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

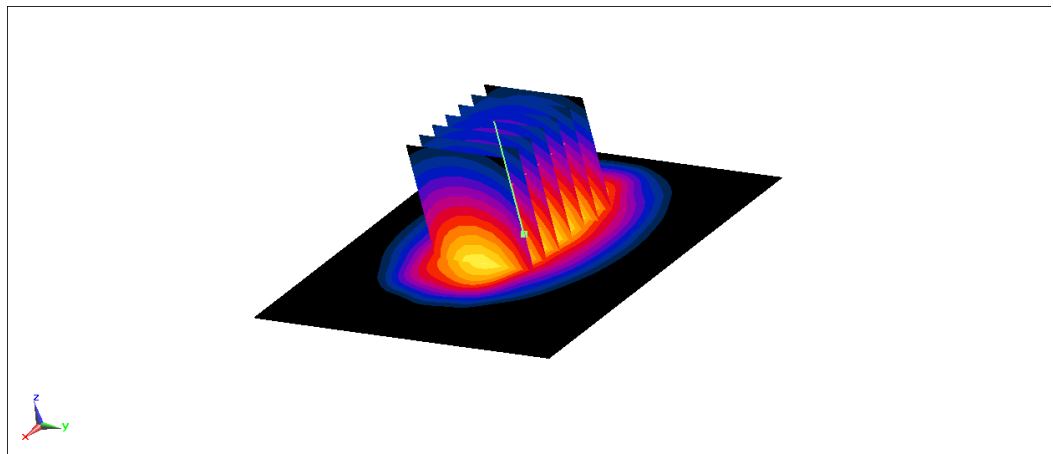
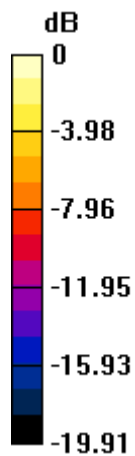
Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 101.5 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 23.4 W/kg

SAR(1 g) = 11.8 W/kg; SAR(10 g) = 5.78 W/kg

Maximum value of SAR (measured) = 20.2 W/kg



0 dB = 20.2 W/kg = 13.05 dBW/kg

2450 MHz

Date: 2024/10/29

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.854$ mho/m; $\epsilon_r = 40.79$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(7.60, 7.60, 7.60)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 21.5 W/kg

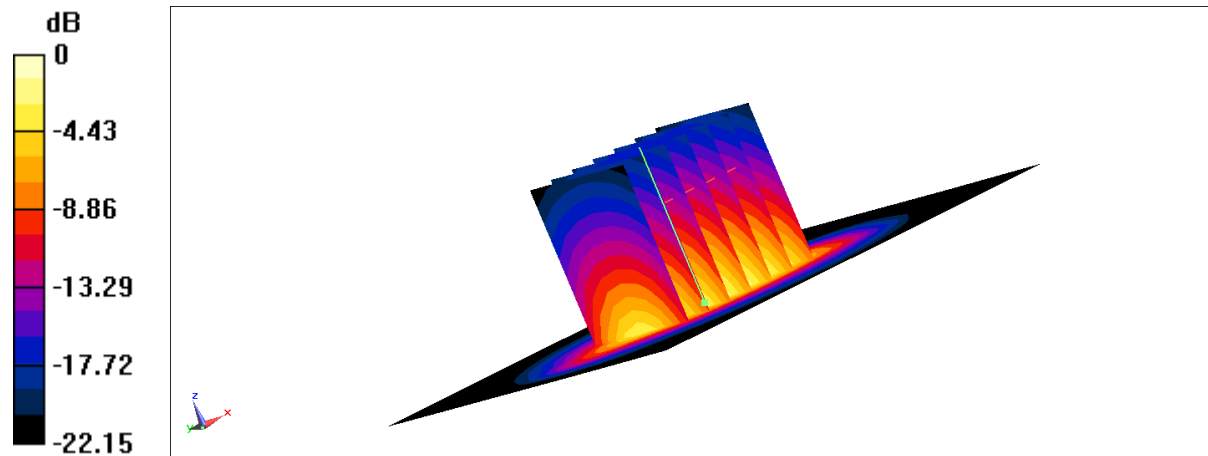
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value =103.8 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 27.5 W/kg

SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.35 W/kg

Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg = 13.48 dBW/kg

2600 MHz

Date: 2024/11/15

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.058$ mho/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(7.44, 7.44, 7.44)

System Validation /Area Scan (61x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 24.6 W/kg

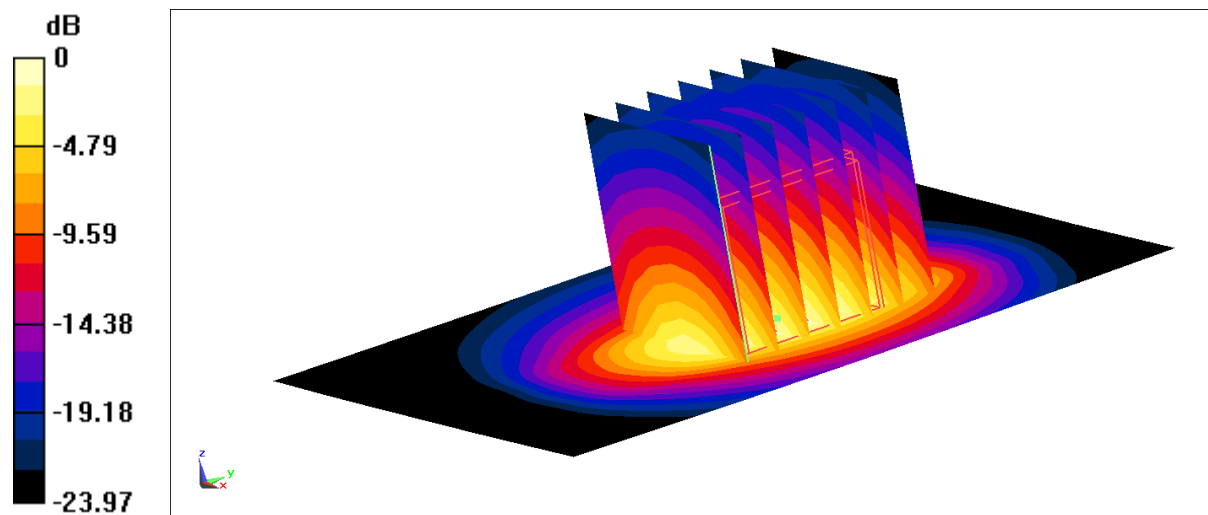
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value =110.8 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 30.1 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.42 W/kg

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



0 dB = 23.6 W/kg = 13.73 dBW/kg

3500MHz

Date: 2024/11/17

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.869$ S/m; $\epsilon_r = 38.54$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 –SN7673 ConvF(6.73, 6.73, 6.73)

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

Maximum value of SAR (interpolated) = 12.5 W/kg

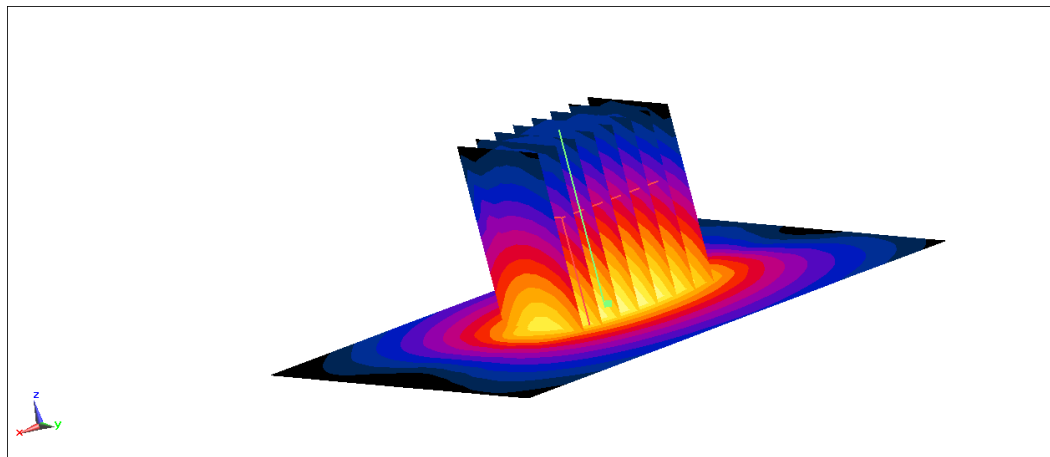
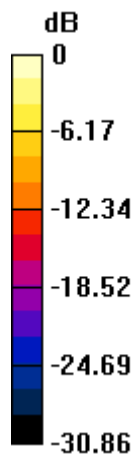
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 67.78 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 6.52 W/kg; SAR(10 g) = 2.51 W/kg

Maximum value of SAR (measured) = 12.8 W/kg



0 dB = 12.8 W/kg = 11.07 dBW/kg

3700MHz

Date: 2024/11/18

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.048$ S/m; $\epsilon_r = 38.21$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 –SN7673 ConvF(6.48, 6.48, 6.48)

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

Maximum value of SAR (interpolated) = 12.8 W/kg

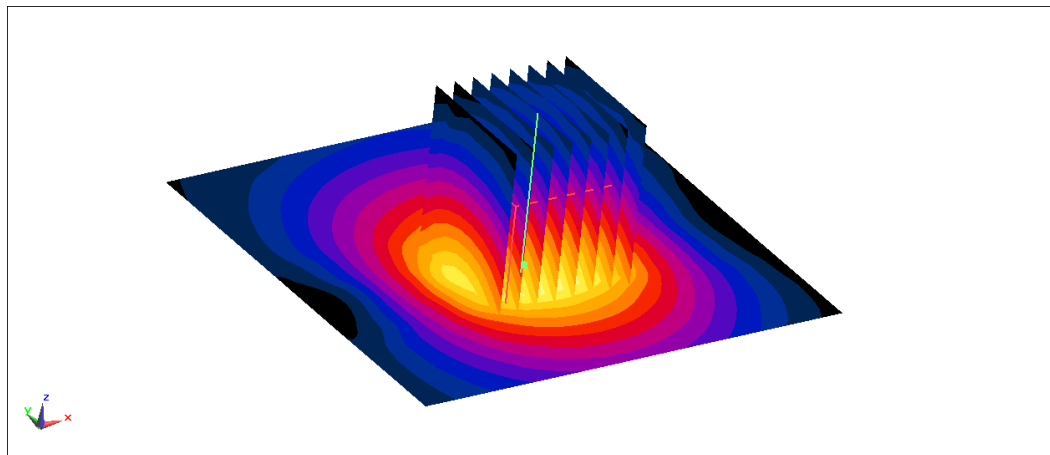
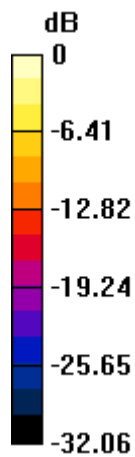
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 51.52 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 6.61 W/kg; SAR(10 g) = 2.49 W/kg

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



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

3900MHz

Date: 2024/11/19

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 3900$ MHz; $\sigma = 3.256$ S/m; $\epsilon_r = 37.91$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 –SN7673 ConvF(6.44, 6.44, 6.44)

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

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

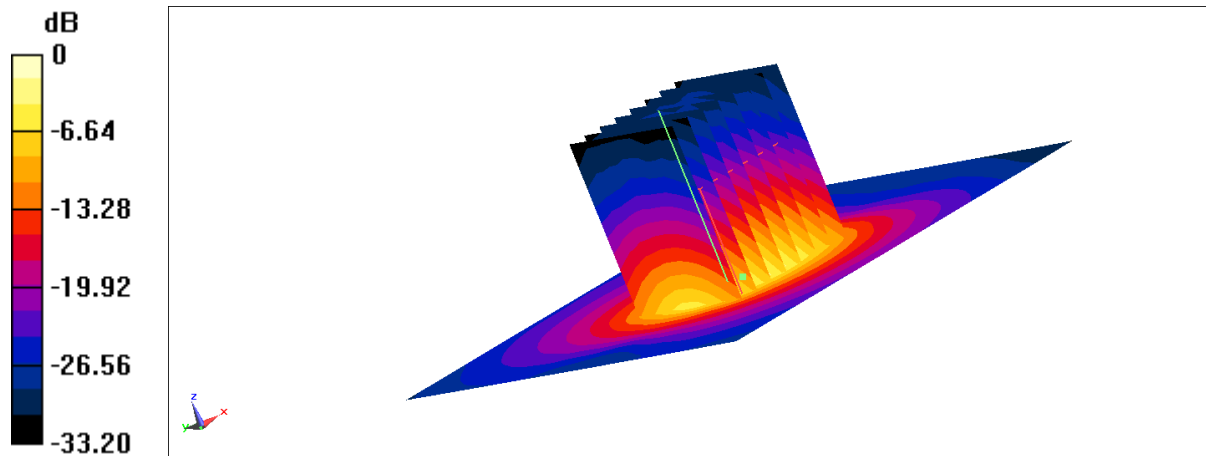
Zoom Scan (8x8x7)/Cube 0: : Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 56.85 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 6.65 W/kg; SAR(10 g) = 2.47 W/kg

Maximum value of SAR (measured) = 14.3 W/kg



0 dB = 14.3 W/kg = 11.55 dBW/kg

5250 MHz

Date: 2024/11/1

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.705$ S/m; $\epsilon_r = 35.23$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 5250 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(5.18, 5.18, 5.18)

Area Scan (51x51x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

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

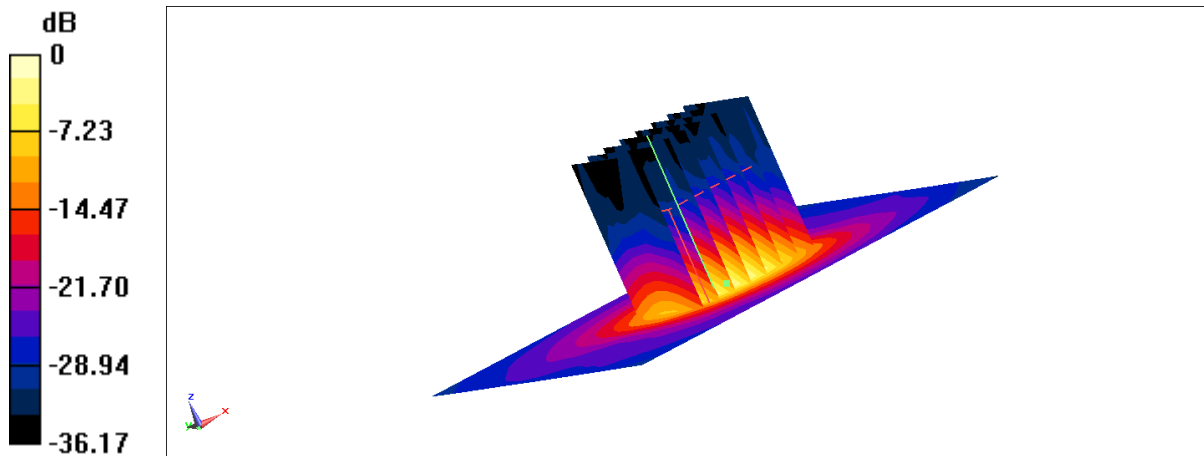
Zoom Scan (7x7x6)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value =66.57 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 7.69 W/kg; SAR(10 g) = 2.28 W/kg

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



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

5600 MHz

Date: 2024/11/2

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.095$ S/m; $\epsilon_r = 34.53$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(4.60, 4.60, 4.60)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

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

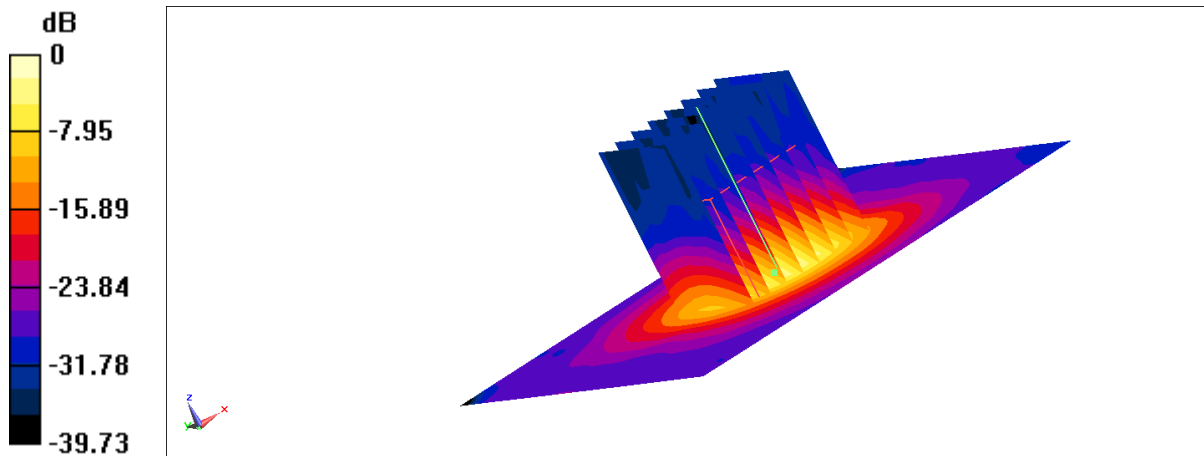
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value =67.78 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 35.1 W/kg

SAR(1 g) = 7.95 W/kg; SAR(10 g) = 2.35 W/kg

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



0 dB = 19.5 W/kg = 12.90 dBW/kg

5750 MHz

Date: 2024/11/2

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.25$ S/m; $\epsilon_r = 34.28$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 5750 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(4.71, 4.71, 4.71)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 19.1 W/kg

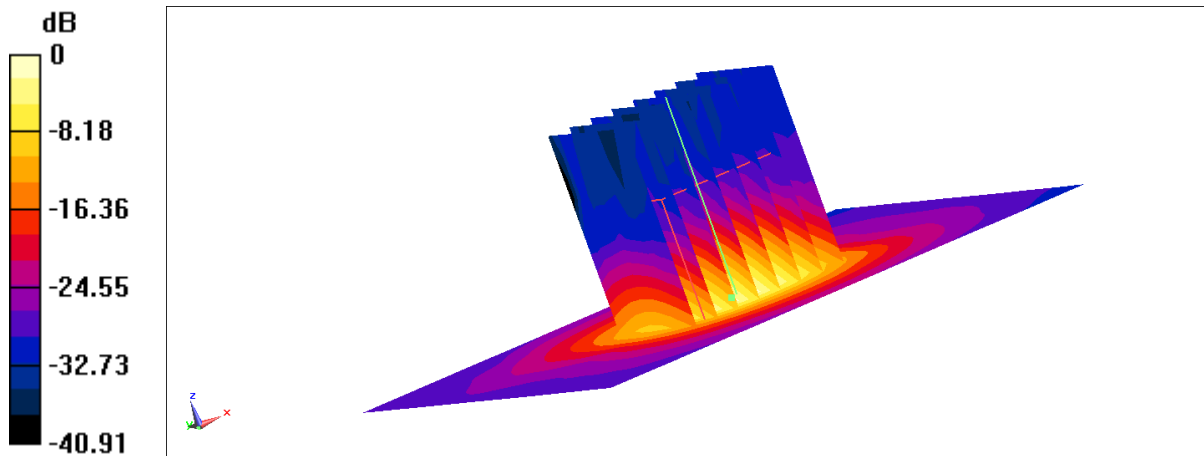
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value =66.86 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 34.1 W/kg

SAR(1 g) = 7.97 W/kg; SAR(10 g) = 2.31 W/kg

Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.94 dBW/kg

13 MHz

Date: 2024-11-14

Electronics: DAE4 Sn1524

Medium: 13M

Medium parameters used: $f = 13$ MHz; $\sigma = 0.73$ S/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

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

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

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

Area Scan (101x111x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.141 W/kg

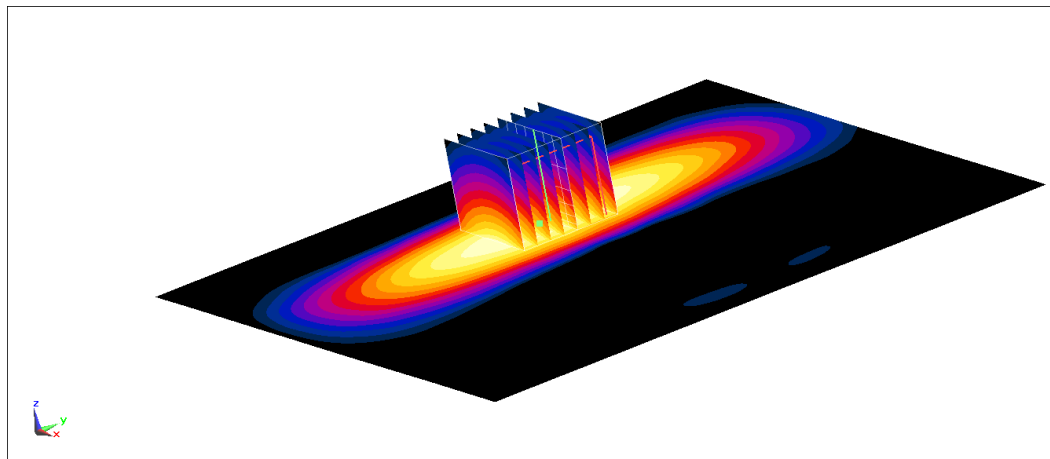
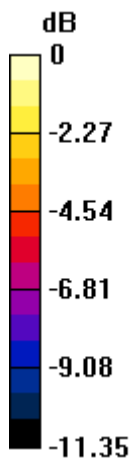
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 3.338 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.202 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.546 W/kg

Maximum value of SAR (measured) = 0.137 W/kg



0 dB = 0.137 W/kg = -8.63 dBW/kg

750 MHz

Date: 2024/12/26

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 750$ MHz; $\sigma = 0.922$ mho/m; $\epsilon_r = 43.15$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7673 ConvF(10.45, 10.45, 10.45)

System Validation /Area Scan (51x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 2.83 W/kg

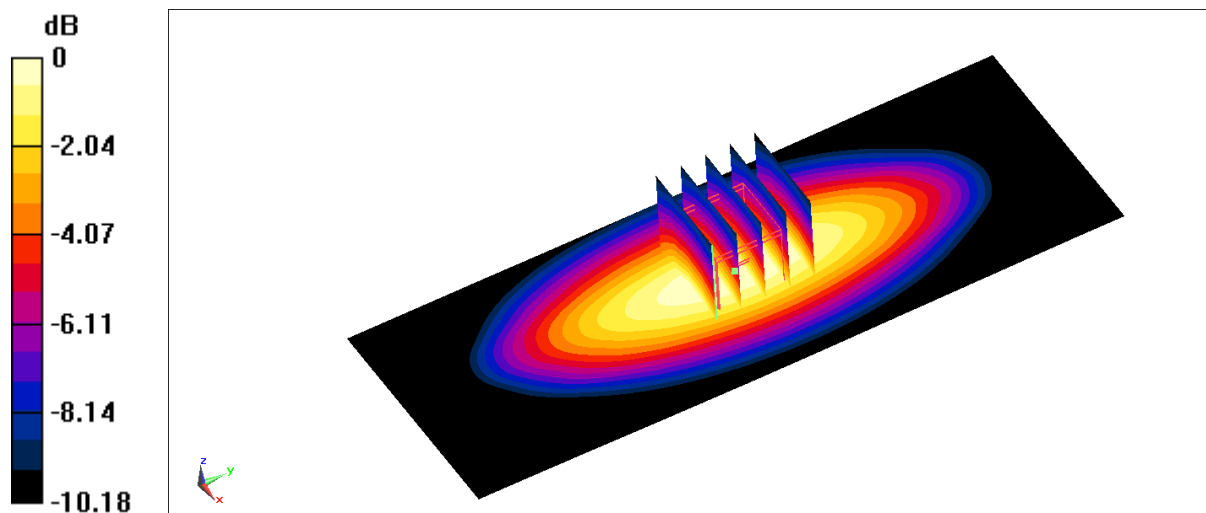
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value =44.51 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 3.28 W/kg

SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.34 W/kg

Maximum value of SAR (measured) = 2.81 W/kg



0 dB = 2.81 W/kg = 4.49 dBW/kg

835 MHz

Date: 2024/12/26

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 835$ MHz; $\sigma = 0.9539$ mho/m; $\epsilon_r = 42.87$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(10.45, 10.45, 10.45)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 3.33 W/kg

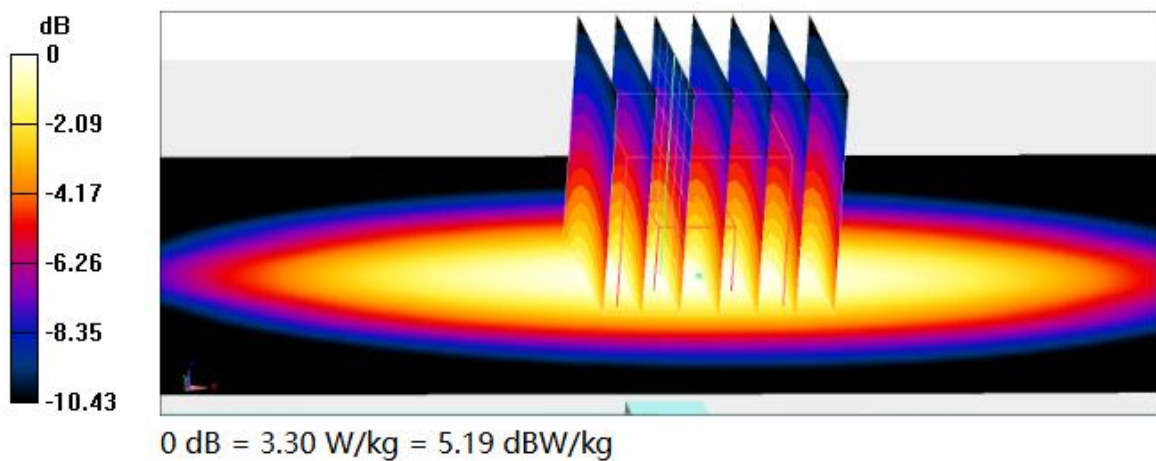
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value =57.79 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.83 W/kg

SAR(1 g) = 2.30 W/kg; SAR(10 g) = 1.48 W/kg

Maximum value of SAR (measured) = 3.32 W/kg



1750 MHz

Date: 2024/12/27

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.376$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

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

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

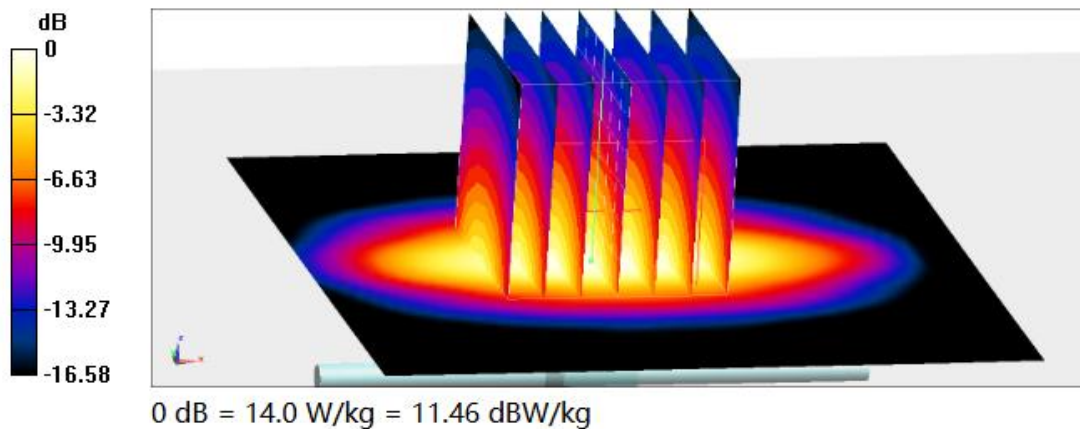
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value =97.33 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 9.20 W/kg; SAR(10 g) = 4.84 W/kg

Maximum value of SAR (measured) = 14.0 W/kg



1900 MHz

Date: 2024/12/28

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.464$ mho/m; $\epsilon_r = 40.81$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(8.10,8.10,8.10)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 16.0 W/kg

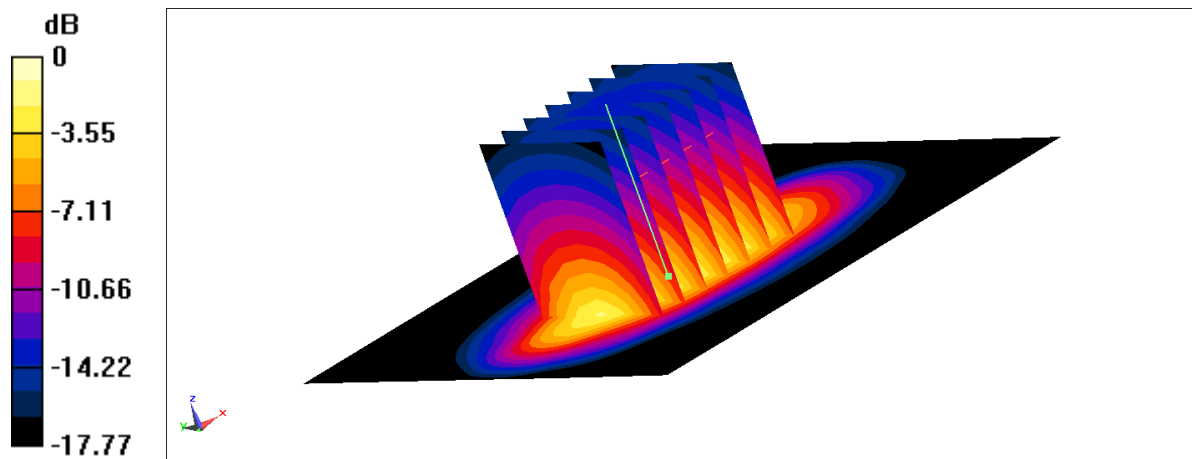
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value =99.05 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 9.96 W/kg; SAR(10 g) = 5.27 W/kg

Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.10 dBW/kg

2600 MHz

Date: 2024/12/29

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.956$ mho/m; $\epsilon_r = 39.83$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(7.44, 7.44, 7.44)

System Validation /Area Scan (61x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 22.1 W/kg

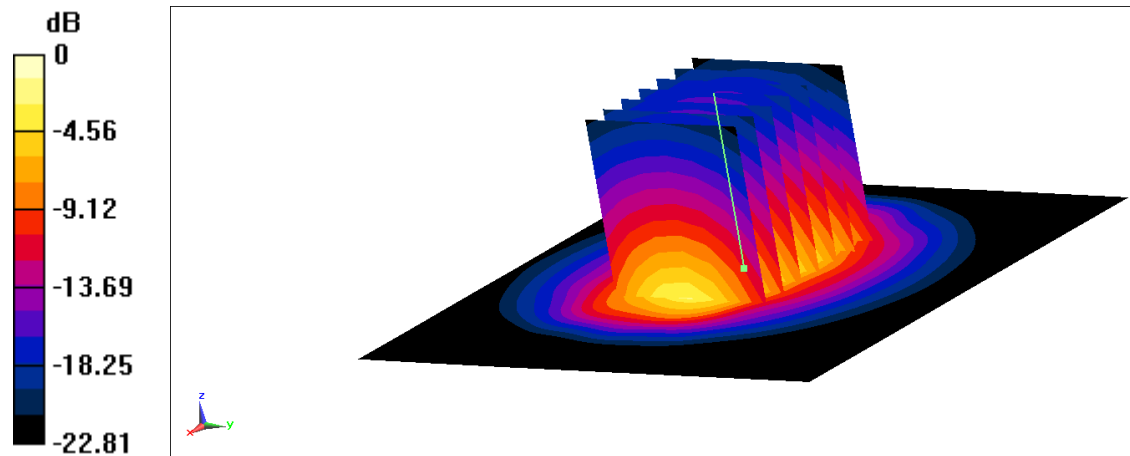
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value =101.2 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 28.4 W/kg

SAR(1 g) = 14.0 W/kg; SAR(10 g) = 6.36 W/kg

Maximum value of SAR (measured) = 23.3 W/kg



0 dB = 23.3 W/kg = 13.67 dBW/kg

3500MHz

Date: 2024/12/30

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.706$ S/m; $\epsilon_r = 38.27$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 –SN7673 ConvF(6.73, 6.73, 6.73)

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

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

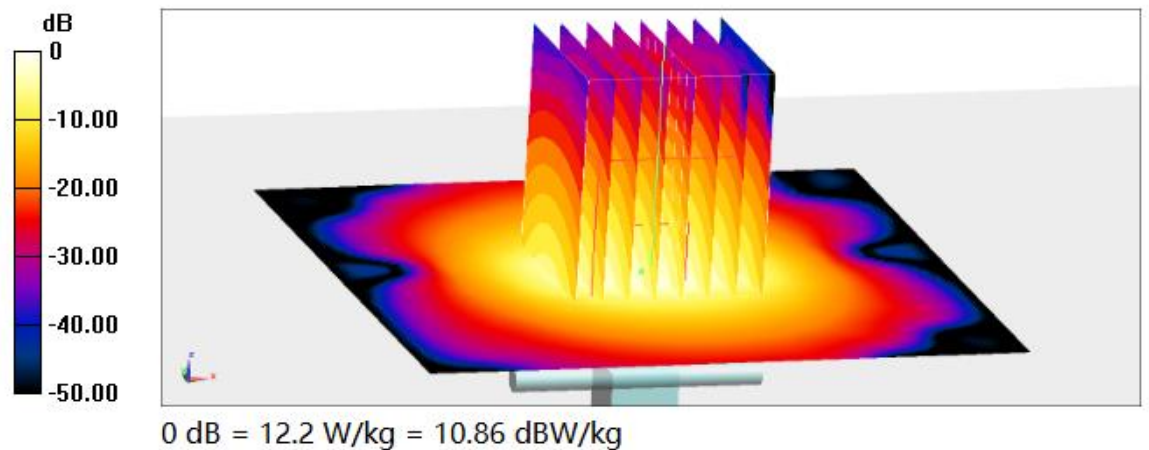
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 72.25 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 6.61 W/kg; SAR(10 g) = 2.44 W/kg

Maximum value of SAR (measured) = 12.2 W/kg



3700MHz

Date: 2024/12/31

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 3700 \text{ MHz}$; $\sigma = 2.878 \text{ S/m}$; $\epsilon_r = 37.97$; $\rho = 1000 \text{ kg/m}^3$

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

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

Probe: EX3DV4 –SN7673 ConvF(6.48, 6.48, 6.48)

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

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

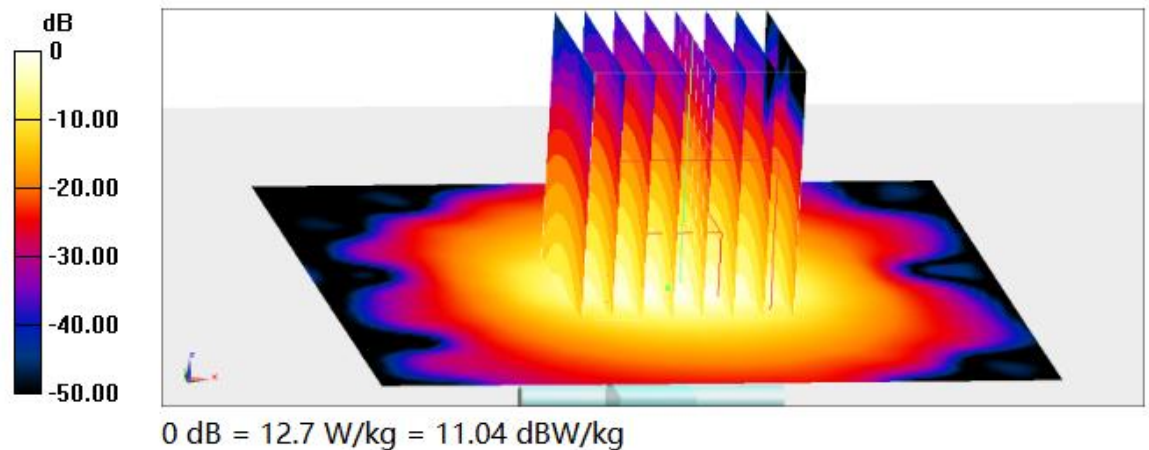
Zoom Scan (4x4x1.4mm, graded), $dist=1.4\text{mm}$ (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 68.56 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 6.99 W/kg; SAR(10 g) = 2.57 W/kg

Maximum value of SAR (measured) = 12.7 W/kg



3900MHz

Date: 2024/12/31

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 3900$ MHz; $\sigma = 3.07$ S/m; $\epsilon_r = 37.72$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 –SN7673 ConvF(6.44, 6.44, 6.44)

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

Maximum value of SAR (interpolated) = 13.3 W/kg

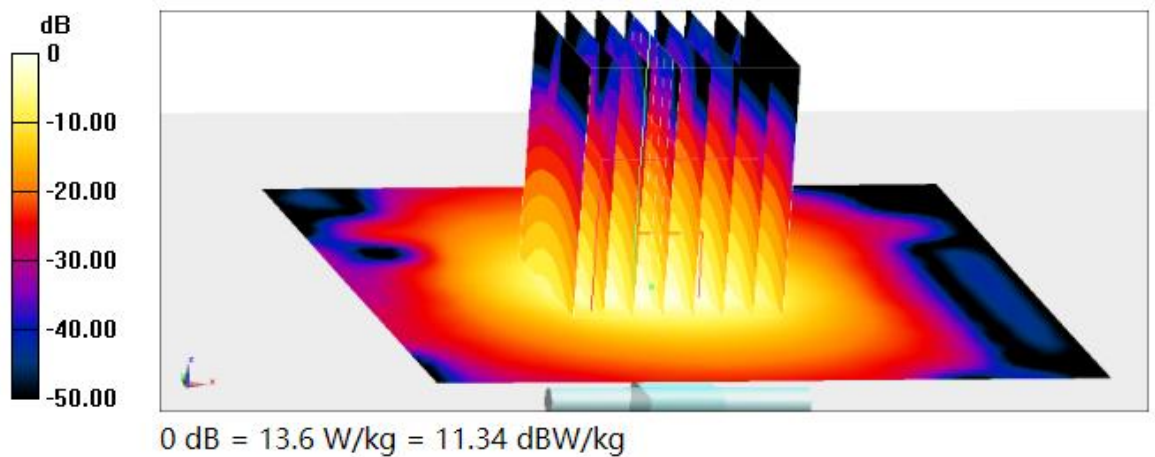
Zoom Scan (8x8x7)/Cube 0: : Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 62.04 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 20.6 W/kg

SAR(1 g) = 7.18 W/kg; SAR(10 g) = 2.51 W/kg

Maximum value of SAR (measured) = 13.6 W/kg



750 MHz

Date: 2025/1/5

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.9252 \text{ mho/m}$; $\epsilon_r = 42.38$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.5°C Liquid Temperature: 22.3°C

Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 – SN7673 ConvF(10.45, 10.45, 10.45)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.84 W/kg

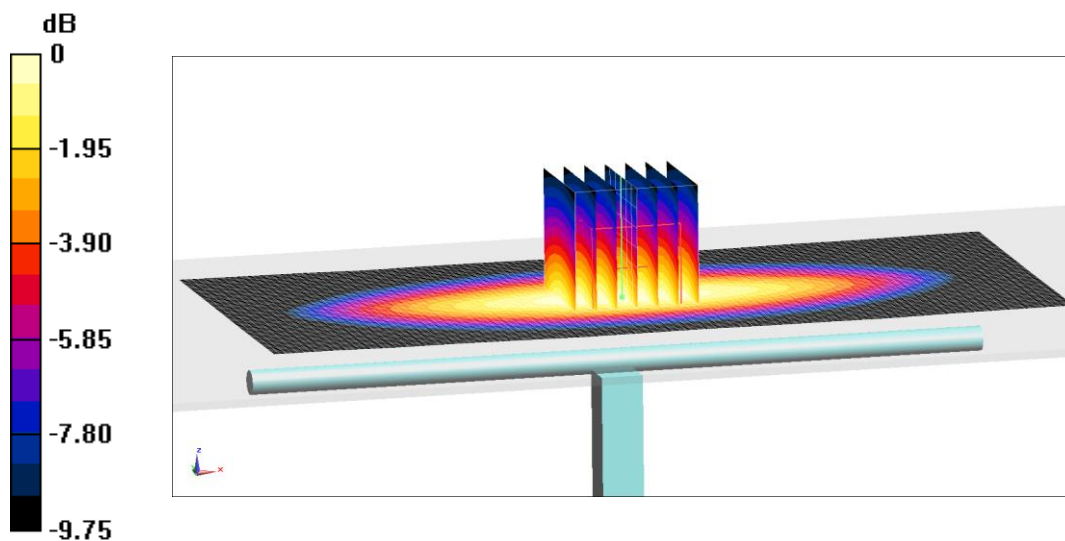
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 59.21 V/m ; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 2.09 W/kg ; SAR(10 g) = 1.36 W/kg

Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.85 W/kg = 4.55 dB W/kg

835 MHz

Date: 2025/1/5

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 835$ MHz; $\sigma = 0.9212$ mho/m; $\epsilon_r = 42.29$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(10.45, 10.45, 10.45)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 3.41 W/kg

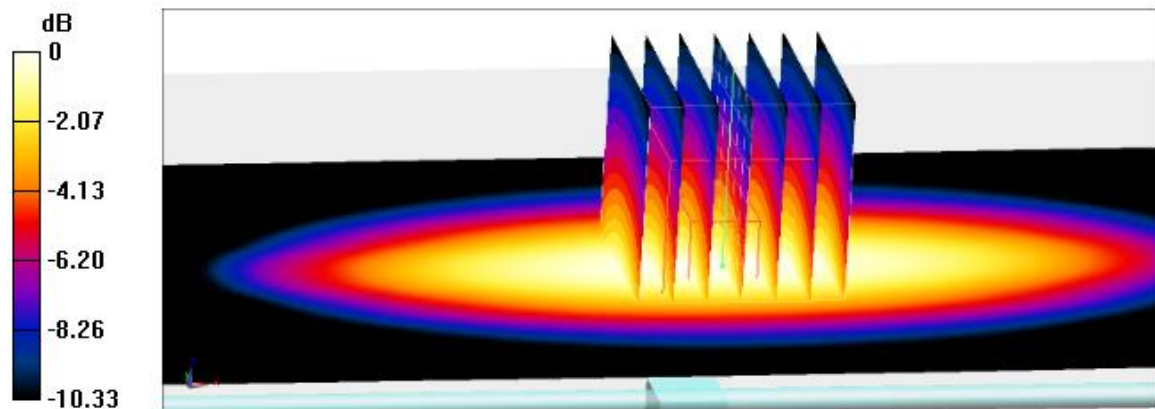
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value =58.33 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.87 W/kg

SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.59 W/kg

Maximum value of SAR (measured) = 3.35 W/kg



0 dB = 3.35 W/kg = 5.25 dBW/kg

1900 MHz

Date: 2025/1/6

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.451$ mho/m; $\epsilon_r = 41.08$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(8.10,8.10,8.10)

System Validation /Area Scan (81x191x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

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

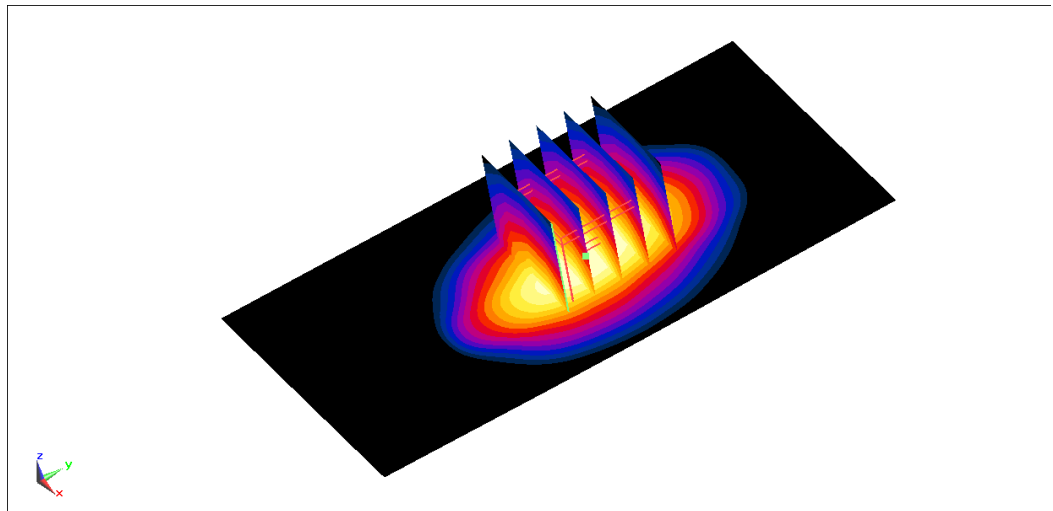
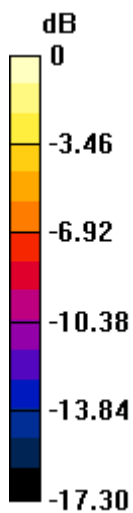
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value =81.15 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 18.56 W/kg

SAR(1 g) = 9.71 W/kg; SAR(10 g) = 5.10 W/kg

Maximum value of SAR (measured) = 15.0 W/kg



0 dB = 15.0 W/kg = 11.76 dBW/kg

2600 MHz

Date: 2025/1/7

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.988$ mho/m; $\epsilon_r = 39.91$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.5oC Liquid Temperature: 22.3oC

Communication System: CW Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 –SN7673 ConvF(7.44, 7.44, 7.44)

System Validation /Area Scan (61x81x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 22.5 W/kg

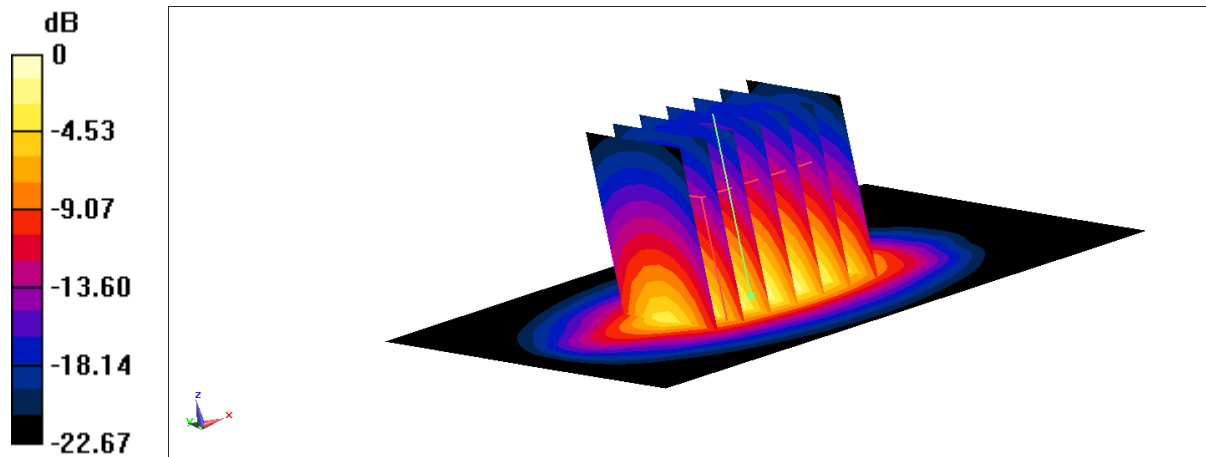
System Validation /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value =102.9 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 28.9 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.11 W/kg

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



0 dB = 23.6 W/kg = 13.73 dBW/kg

3700MHz

Date: 2025/1/9

Electronics: DAE4 Sn1331

Medium: H700-6000M

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.183$ S/m; $\epsilon_r = 38.14$; $\rho = 1000$ kg/m³

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

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

Probe: EX3DV4 –SN7673 ConvF(6.48, 6.48, 6.48)

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

Maximum value of SAR (interpolated) = 13.5 W/kg

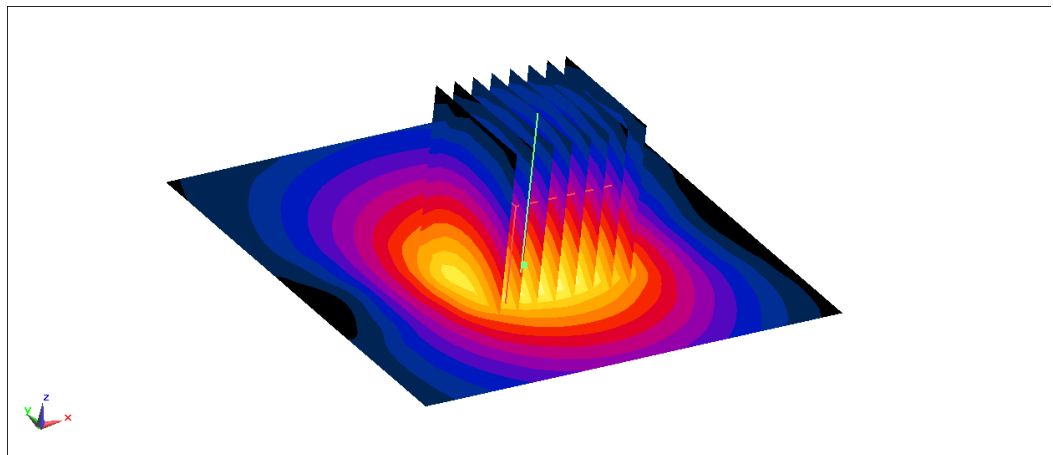
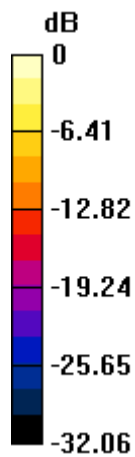
Zoom Scan (4x4x1.4mm, graded), $dist=1.4$ mm (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 51.47 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 6.62 W/kg; SAR(10 g) = 2.39 W/kg

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



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

- ### C.1 Measurement Set-up

C.2 Dasy5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY5 or DASY6 software reads the reflection during a software approach and looks for the maximum using 2nd order curve fitting. The approach is stopped at reaching the maximum.

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 of mobile phones
Dosimetry in strong gradient fields



Picture C.2 Near-field Probe



Picture C.3 E-field Probe

C.3 E-field Probe Calibration

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

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or

other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm².

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

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

Where:

Δt = Exposure time (30 seconds),

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

ΔT = Temperature increase due to RF exposure.

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

Where:

σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m³).

C.4 Other Test Equipment

C.4.1 Data Acquisition Electronics(DAE)

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

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

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



PictureC.4: DAE

C.4.2 Robot

The SPEAG DASY system uses the high precision robots (DASY5: RX160L) 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 board 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 board, which is directly connected to the PC/104 bus of the CPU board.

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



Picture C.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 $\pm 0.5\text{mm}$ would produce a SAR uncertainty of $\pm 20\%$. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

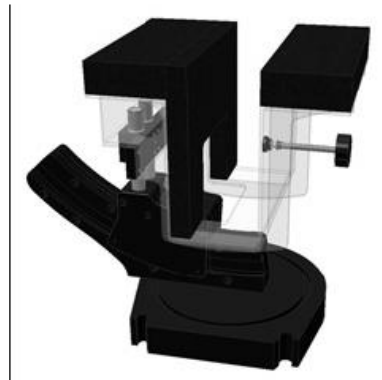
The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales are the ear reference 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 $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

<Laptop Extension Kit>

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



Picture 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

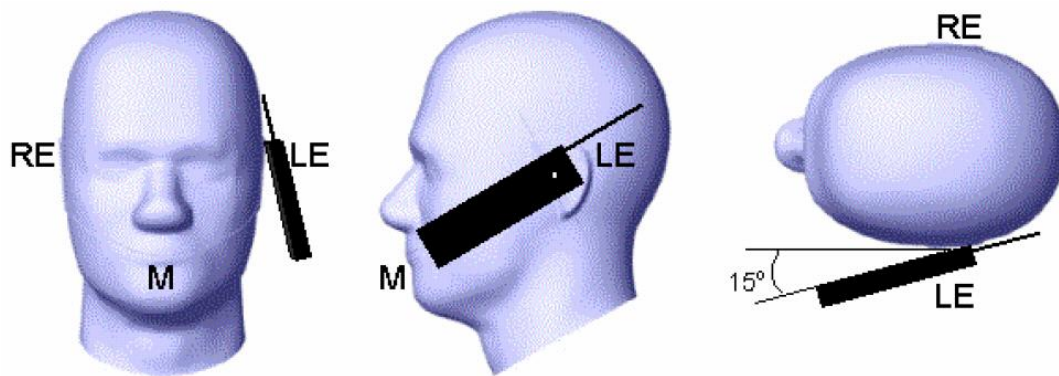
Dimensions: 810 x 1000 x 500 mm (H x L x W)

Available: Special



Picture C.8: SAM Twin Phantom

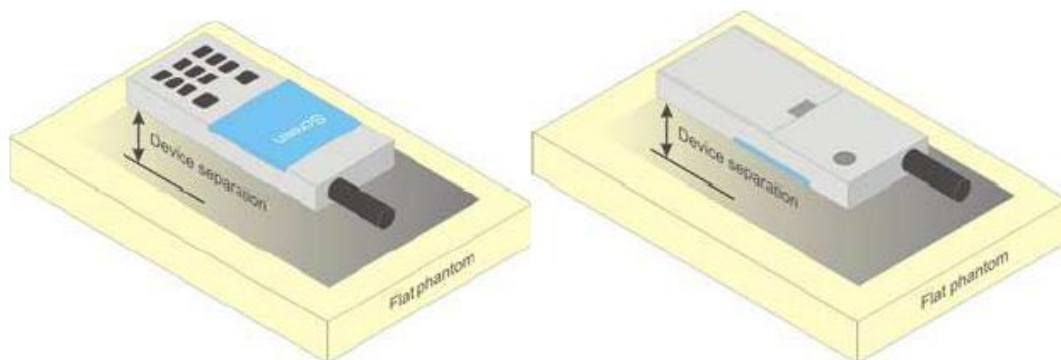
Picture D.2 Cheek position of the wireless device on the left side of SAM



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

D.2 Body-worn device

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

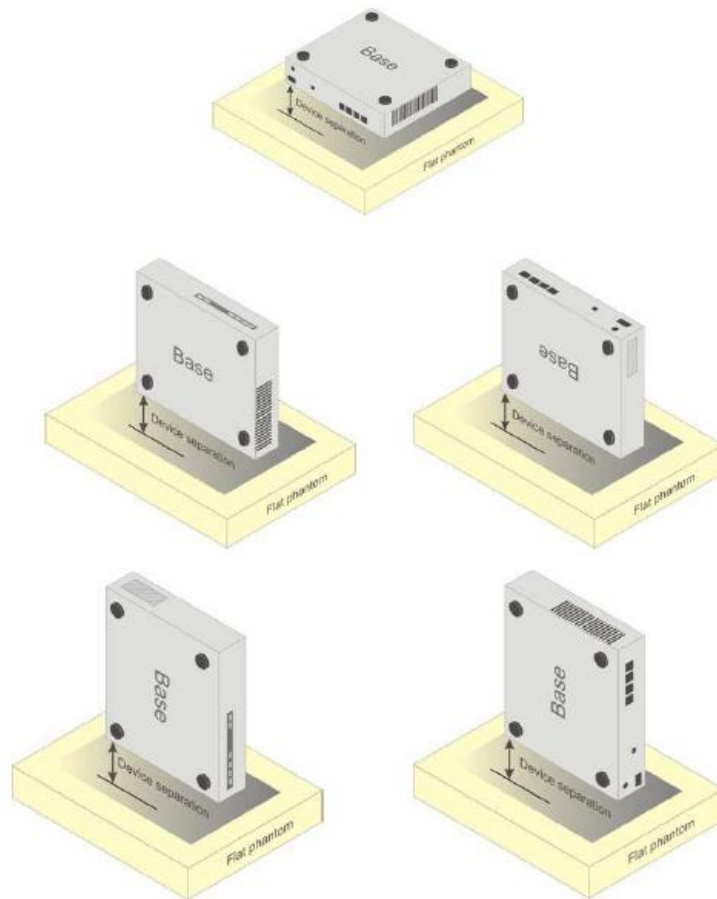


Picture D.4 Test positions for body-worn devices

D.3 Desktop device

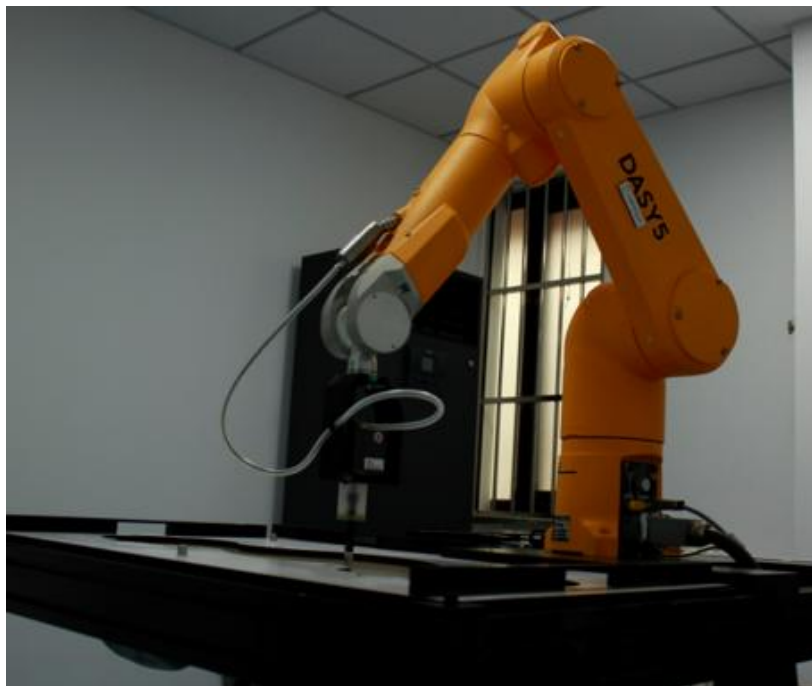
A typical example of a desktop device is a wireless enabled desktop computer placed on a table or desk when used.

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



Picture D.5 Test positions for desktop devices

D.4 DUT Setup Photos



Picture D.6

ANNEX E Equivalent Media Recipes

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

TableE.1: Composition of the Tissue Equivalent Matter

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

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

ANNEX F System Validation


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

Table F.1: System Validation for 7673

| Probe SN. | Liquid name | Validation date | Frequency point | Status (OK or Not) |
|-----------|--------------|-----------------|-----------------|--------------------|
| 7673 | Head 750MHz | July.30,2024 | 750 MHz | OK |
| 7673 | Head 900MHz | July.30,2024 | 900 MHz | OK |
| 7673 | Head 1750MHz | July.30,2024 | 1750 MHz | OK |
| 7673 | Head 1900MHz | July.30,2024 | 1900 MHz | OK |
| 7673 | Head 2000MHz | July.30,2024 | 2000 MHz | OK |
| 7673 | Head 2300MHz | July.30,2024 | 2300 MHz | OK |
| 7673 | Head 2450MHz | July.30,2024 | 2450 MHz | OK |
| 7673 | Head 2600MHz | July.30,2024 | 2600 MHz | OK |
| 7673 | Head 3500MHz | July.30,2024 | 3500 MHz | OK |
| 7673 | Head 3700MHz | July.30,2024 | 3700 MHz | OK |
| 7673 | Head 3900MHz | July.30,2024 | 3900 MHz | OK |
| 7673 | Head 5250MHz | July.30,2024 | 5250 MHz | OK |
| 7673 | Head 5600MHz | July.30,2024 | 5600 MHz | OK |
| 7673 | Head 5750MHz | July.30,2024 | 5750 MHz | OK |

ANNEX G PROBE CALIBRATION CERTIFICATE

Probe 7673 Calibration Certificate



In Collaboration with
s p e a g
CALIBRATION LABORATORY



中国认可
国际互认
校准
CALIBRATION
CNAS L0570



CAICT

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2117
E-mail: emf@caict.ac.cn http://www.caict.ac.cn

Client **CTTL** Certificate No: **24J02Z000429**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN : 7673**

Calibration Procedure(s) **FF-Z11-004-02**
Calibration Procedures for Dosimetric E-field Probes

Calibration date: **July 29, 2024**


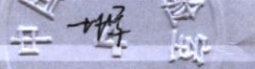
This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

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(Calibrated by, Certificate No.) | Scheduled Calibration |
|--------------------------|-------------|--|-----------------------|
| Power Meter NRP2 | 106277 | 19-Oct-23(CTTL, No.J23X11026) | Oct-24 |
| Power sensor NRP8S | 104291 | 19-Oct-23(CTTL, No.J23X11026) | Oct-24 |
| Power sensor NRP8S | 104292 | 19-Oct-23(CTTL, No.J23X11026) | Oct-24 |
| Reference 10dBAttenuator | 18N50W-10dB | 19-Jan-23(CTTL, No.J23X00212) | Jan-25 |
| Reference 20dBAttenuator | 18N50W-20dB | 19-Jan-23(CTTL, No.J23X00211) | Jan-25 |
| Reference Probe EX3DV4 | SN 7307 | 28-May-24(SPEAG, No.EX-7307_May24) | May-25 |
| DAE4 | SN 1555 | 24-Aug-23(SPEAG, No.DAE4-1555_Aug23) | Aug-24 |

| Secondary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|--------------------------|--------------------|---|-----------------------|
| SignalGenerator MG3700A | 6201052605 | 12-Jun-24(CTTL, No.24J02X005419) | Jun-25 |
| SignalGenerator APSIN26G | 181-33A6D0700-1959 | 26-Mar-24(CTTL, No.24J02X002468) | Mar-25 |
| Network Analyzer E5071C | MY46110673 | 25-Dec-23(CTTL, No.J23X13425) | Dec-24 |
| Reference 10dBAttenuator | BT0520 | 11-May-23(CTTL, No.J23X04061) | May-25 |
| Reference 20dBAttenuator | BT0267 | 11-May-23(CTTL, No.J23X04062) | May-25 |
| OCP DAK-12 | SN 1174 | 25-Oct-23(SPEAG, No.OCP-DAK12-1174_Oct23) | Oct-24 |

| | Name | Function | Signature |
|----------------|-------------|--------------------|--|
| Calibrated by: | Yu Zongying | SAR Test Engineer |  |
| Reviewed by: | Lin Jun | SAR Test Engineer |  |
| Approved by: | Qi Dianyuan | SAR Project Leader |  |

Issued: August 05, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: 24J02Z000429 Page 1 of 9