

APPENDIX A: SYSTEM CHECKING SCANS

(0mm)



Front face



Rear face



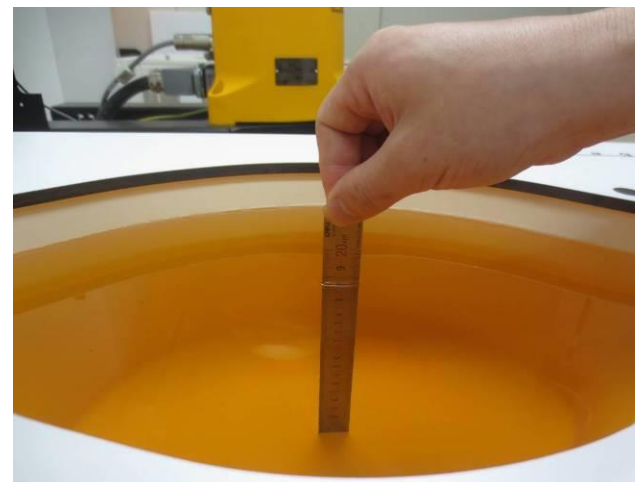
Left side



Right Side



Bottom side



APPENDIX B: SYSTEM CHECKING SCANS

Date: 4/26/2023

835 HEAD

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

Medium: 835 Head Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 41.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: $22.0 \text{ }^\circ\text{C}$; Liquid Temperature: $21.5 \text{ }^\circ\text{C}$

DASY Configuration:

- Probe: EX3DV4 - SN7322; ConvF(9.81, 9.81, 9.81) @ 835 MHz; Calibrated: 2/28/2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1473; Calibrated: 2/8/2023
- Phantom: SAM 1 V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1888
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (7x13x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

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

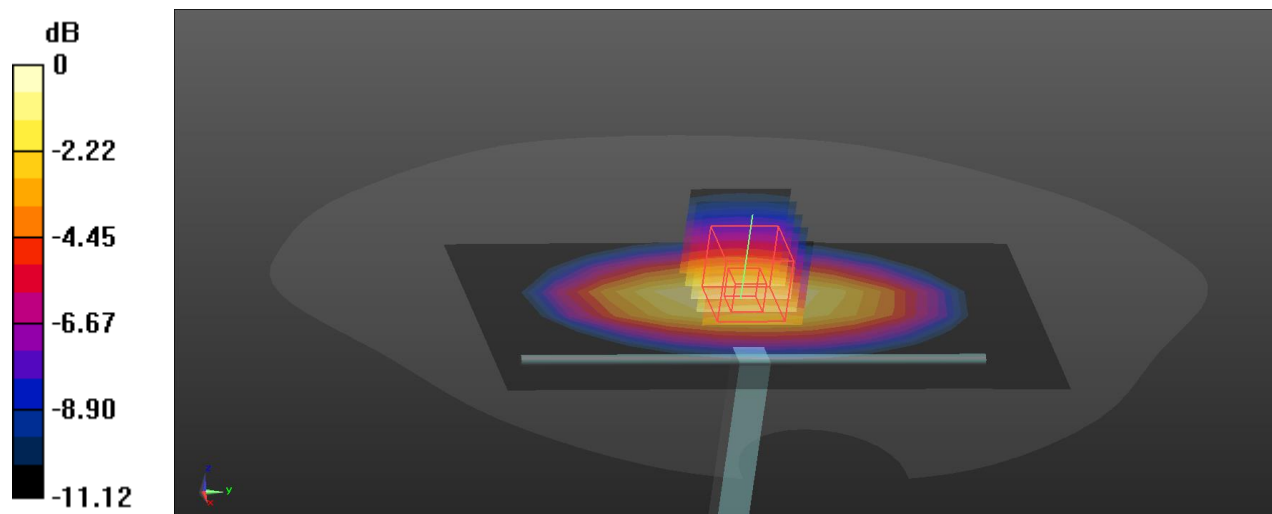
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.41 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.01 W/kg

SAR(1 g) = 2.58 W/kg ; SAR(10 g) = 1.67 W/kg

Maximum value of SAR (measured) = 3.51 W/kg



1750 HEAD

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

Medium: 1750 Head Medium parameters used: $f = 1750$ MHz; $\sigma = 1.38$ S/m; $\epsilon_r = 40.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN7322; ConvF(8.36, 8.36, 8.36) @ 1750 MHz; Calibrated: 2/28/2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1473; Calibrated: 2/28/2023
- Phantom: SAM 1 V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1888
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (7x13x1): Interpolated grid: dx=20 mm, dy=20 mm

Maximum value of SAR (interpolated) = 9.00 W/kg

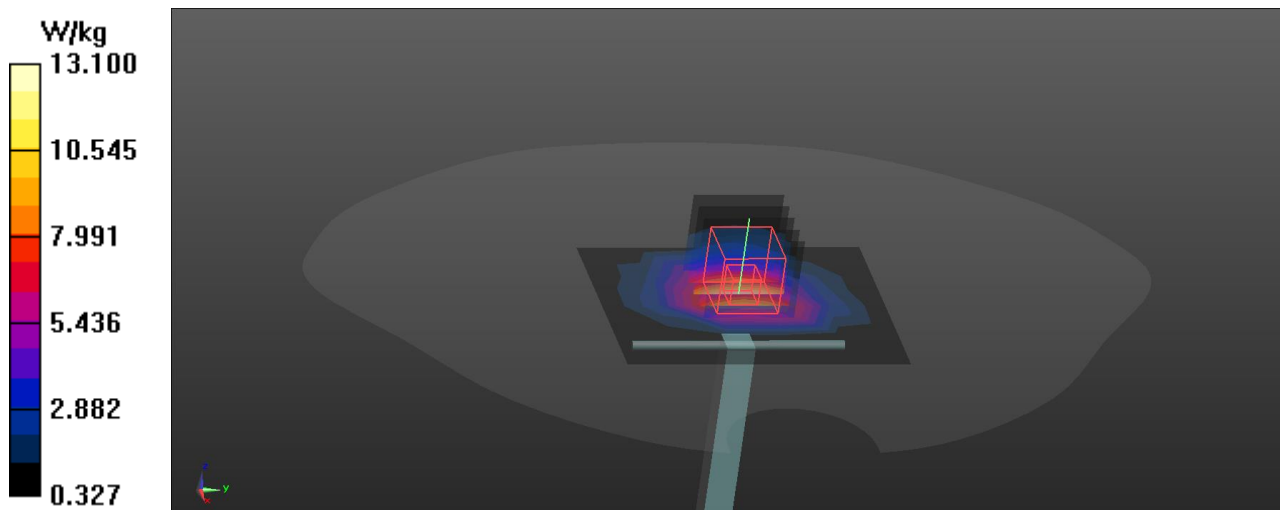
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 87.69 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 15.4 W/kg

SAR(1 g) = 8.89 W/kg; SAR(10 g) = 5.02 W/kg

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



1900 HEAD

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

Medium: 1900 Head Medium parameters used: $f = 1900$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN7322; ConvF(8.05, 8.05, 8.05) @ 1900 MHz; Calibrated: 2/28/2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1473; Calibrated: 2/28/2023
- Phantom: SAM 1 V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1888
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (7x9x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 14.4 W/kg

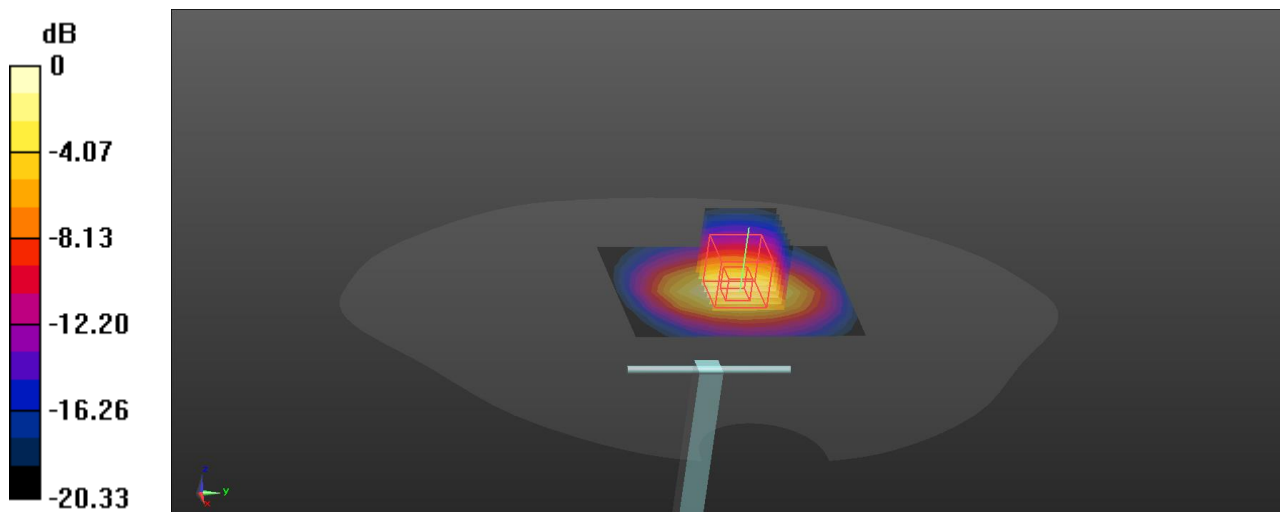
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.6 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 8.97 W/kg; SAR(10 g) = 4.7 W/kg

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



2450 HEAD

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

Medium: 2450 Head Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ S/m; $\epsilon_r = 37.97$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN7322; ConvF(7.5, 7.5, 7.5) @ 2450 MHz; Calibrated: 2/28/2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1473; Calibrated: 2/28/2023
- Phantom: SAM 1 V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1888
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (7x7x1): Interpolated grid: dx=15 mm, dy=15 mm

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

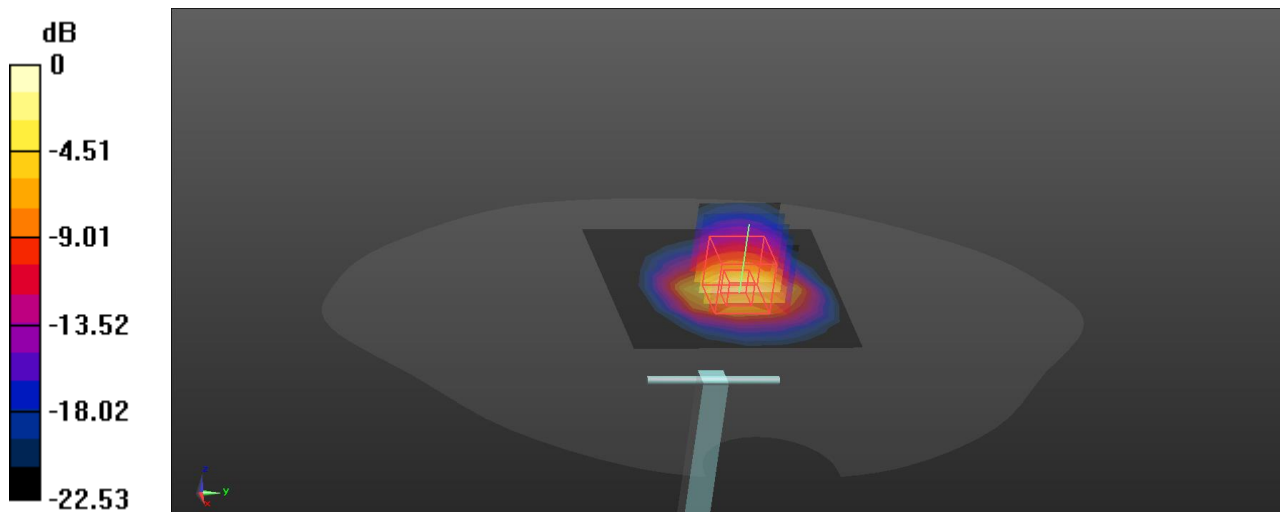
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.32 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.1 W/kg

Maximum value of SAR (measured) = 17.5 W/kg



2600 HEAD

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

Medium: 2600 Head Medium parameters used: $f = 2600$ MHz; $\sigma = 2.02$ S/m; $\epsilon_r = 39.53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN7322; ConvF(7.3, 7.3, 7.3) @ 2600 MHz; Calibrated: 2/28/2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1473; Calibrated: 2/28/2023
- Phantom: SAM 1 V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1888
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (7x9x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 18.2 W/kg

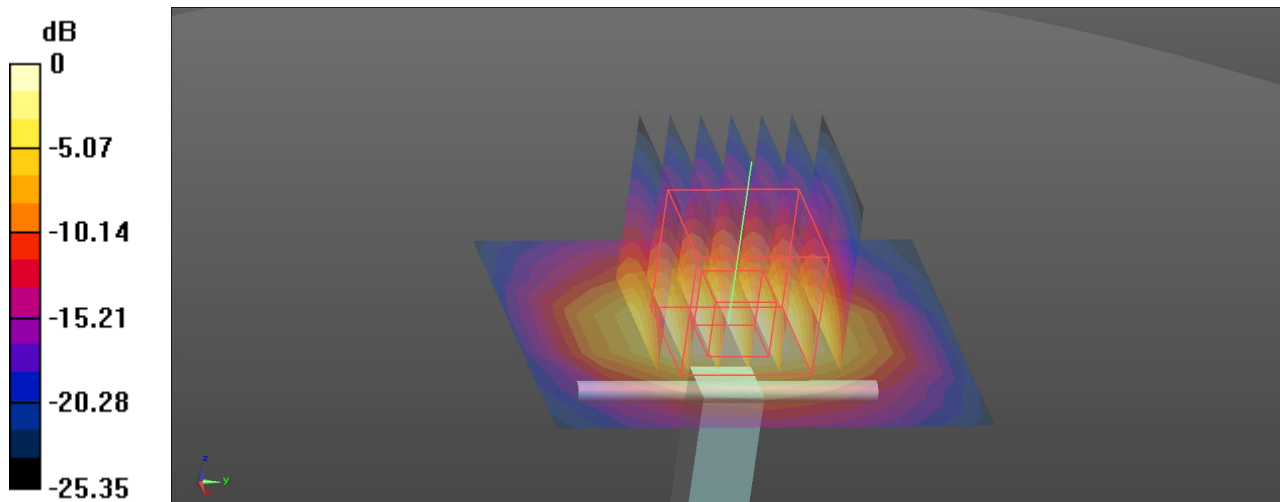
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.25 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 32.3 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 5.97 W/kg

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



APPENDIX C: MEASUREMENT SCANS

Date: 4/26/2023

Test Laboratory: Intertek Service

GSM850_left Side_CH 128

Communication System: UID 0, GPRS 4slot (0); Frequency: 824.2 MHz; Duty Cycle: 1:2.26464

Medium: 835 Head Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.886$ S/m; $\epsilon_r = 42.385$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(9.81, 9.81, 9.81) @ 824.2 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (10x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.800 W/kg

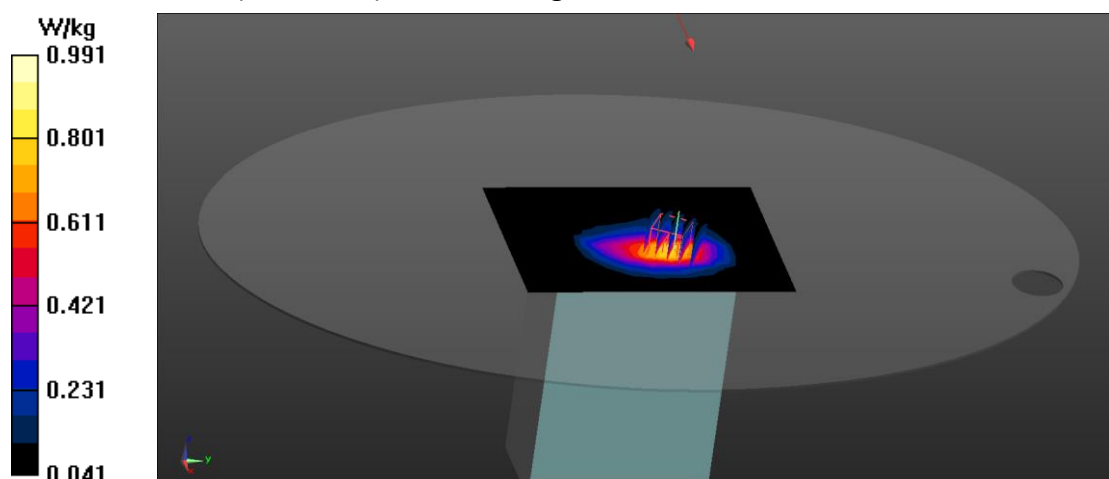
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.70 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.684 W/kg; SAR(10 g) = 0.418 W/kg

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



Date: 4/24/2023

Test Laboratory: Intertek Service

GSM1900_left Side_CH 512

Communication System: UID 0, GPRS 3slot (0); Frequency: 1850.2 MHz; Duty Cycle: 1:3.01995

Medium: 1950 Head Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.332$ S/m; $\epsilon_r = 40.609$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(8.05, 8.05, 8.05) @ 1850.2 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (10x13x1): Measurement grid: dx=15mm, dy=15mm

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

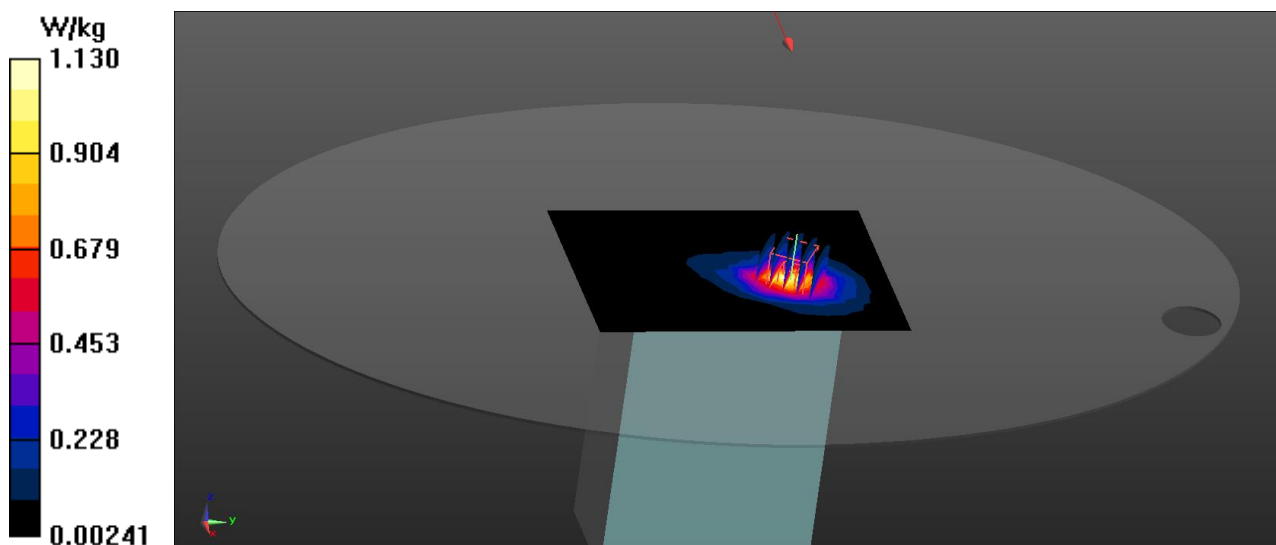
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.90 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.825 W/kg; SAR(10 g) = 0.458 W/kg

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



Date: 4/24/2023

Test Laboratory: Intertek Service

WCDMA BAND2_front Side_CH 9400

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

Medium: 1950 Head Medium parameters used: $f = 1880$ MHz; $\sigma = 1.361$ S/m; $\epsilon_r = 40.472$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(8.05, 8.05, 8.05) @ 1907.6 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (16x20x1): Measurement grid: dx=15mm, dy=15mm

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

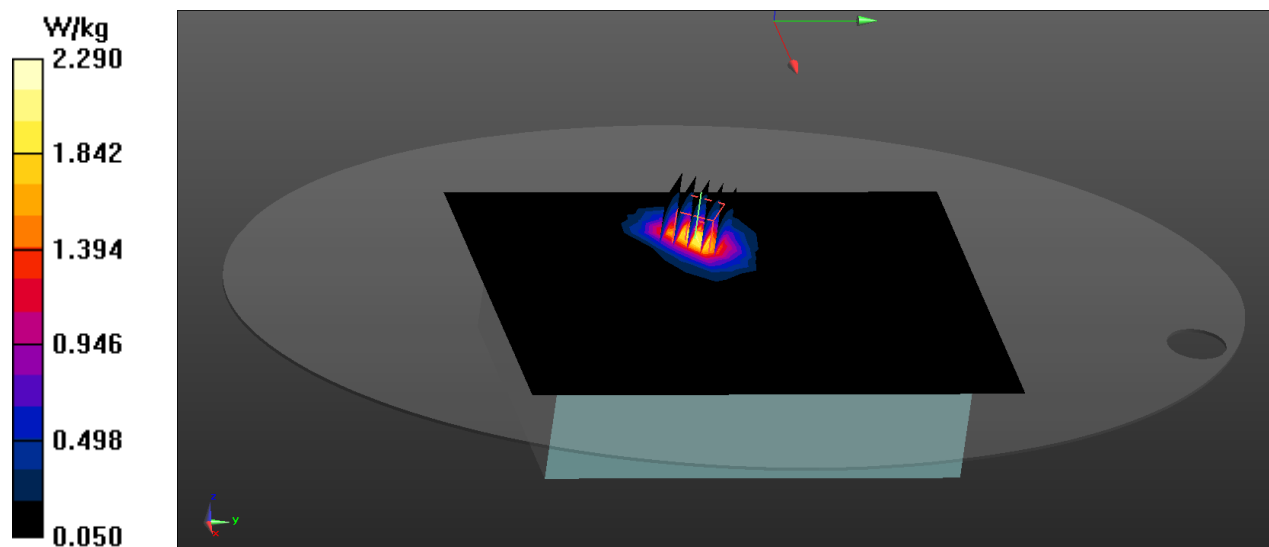
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.080 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.66 W/kg

SAR(1 g) = 1.6 W/kg; SAR(10 g) = 0.930 W/kg

Maximum value of SAR (measured) = 2.29 W/kg



Date: 4/25/2023

Test Laboratory: Intertek Service

WCDMA BAND4_left Side_CH 1513

Communication System: UID 0, WCDMA IV (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: 1750 Head Medium parameters used: $f = 1753$ MHz; $\sigma = 1.407$ S/m; $\epsilon_r = 40.551$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(8.36, 8.36, 8.36) @ 1752.6 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (10x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.21 W/kg

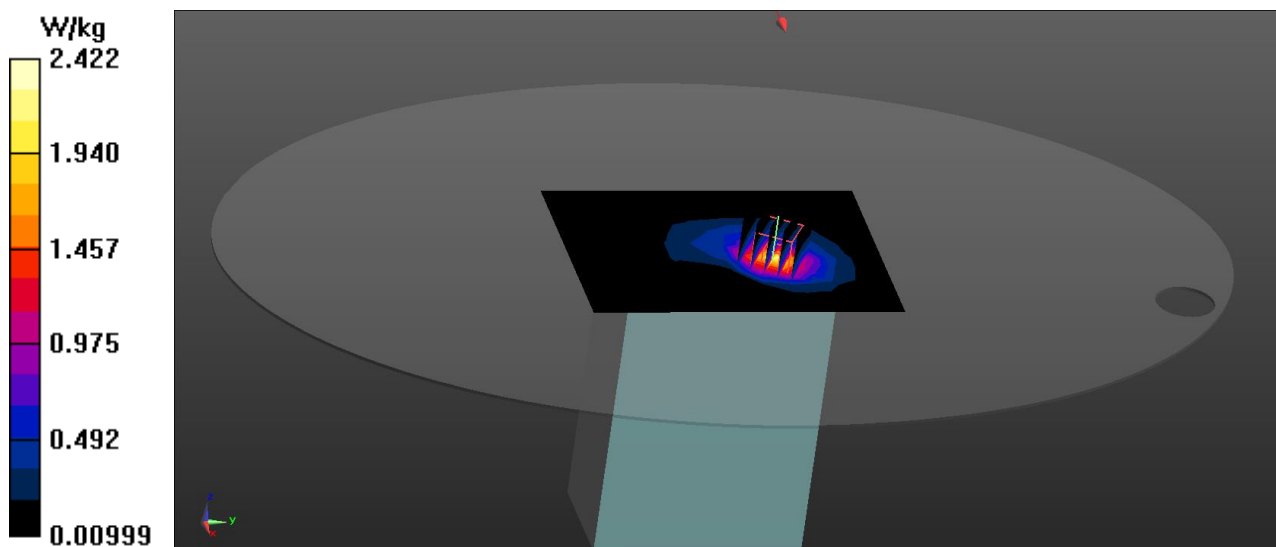
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.77 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 g) = 1.43 W/kg; SAR(10 g) = 0.711 W/kg

Maximum value of SAR (measured) = 2.42 W/kg



Date: 4/24/2023

Test Laboratory: Intertek Service

LTE_band2 left Side_CH 18700

Communication System: UID 0, Generic LTE FDD (0); Frequency: 1860 MHz; Duty Cycle: 1:3.74973
Medium: 1950 Head Medium parameters used: $f = 1860$ MHz; $\sigma = 1.341$ S/m; $\epsilon_r = 40.564$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(8.05, 8.05, 8.05) @ 1860 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (10x20x1): Measurement grid: dx=15mm, dy=15mm

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

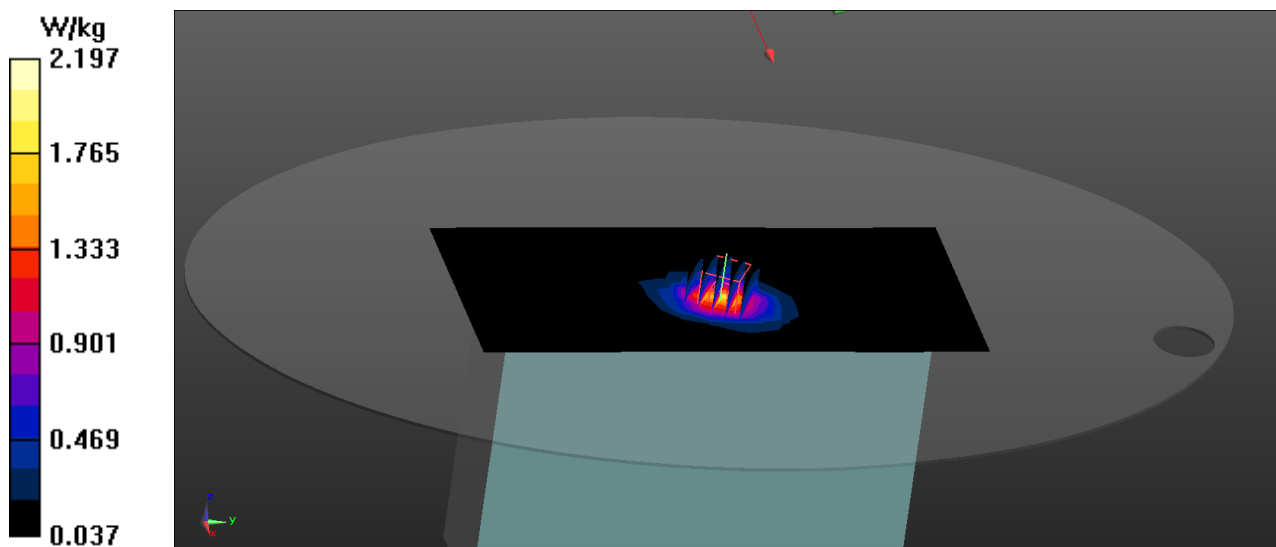
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.60 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.60 W/kg

SAR(1 g) = 1.45 W/kg; SAR(10 g) = 0.792 W/kg

Maximum value of SAR (measured) = 2.20 W/kg



Date: 4/25/2023

Test Laboratory: Intertek Service

LTE_band4 left Side_CH 20050

Communication System: UID 0, Generic LTE FDD (0); Frequency: 1720 MHz; Duty Cycle: 1:3.74973
Medium: 1750 Head Medium parameters used: $f = 1720$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 40.746$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(8.36, 8.36, 8.36) @ 1720 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (10x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.91 W/kg

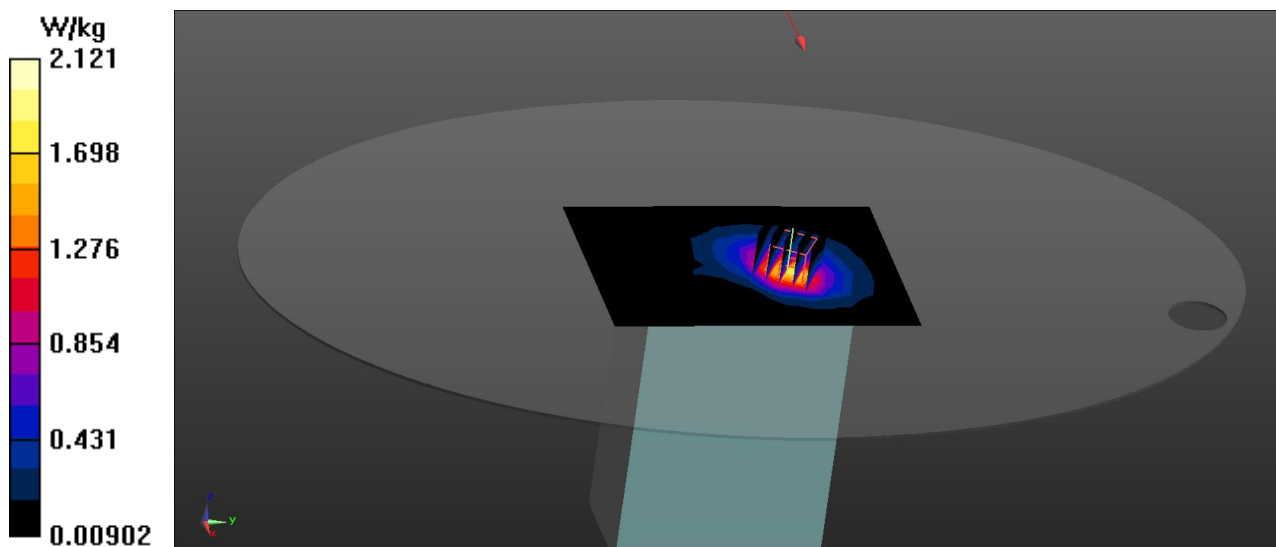
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.07 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.76 W/kg

SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.649 W/kg

Maximum value of SAR (measured) = 2.12 W/kg



Date: 4/28/2023

Test Laboratory: Intertek Service

LTE Band7_left Side_CH 21350

Communication System: UID 0, Generic LTE FDD (0); Frequency: 2560 MHz; Duty Cycle: 1:3.74973
Medium: 2600 Head Medium parameters used: $f = 2560$ MHz; $\sigma = 2.009$ S/m; $\epsilon_r = 37.798$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(7.3, 7.3, 7.3) @ 2560 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (10x24x1): Measurement grid: dx=12mm, dy=12mm

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

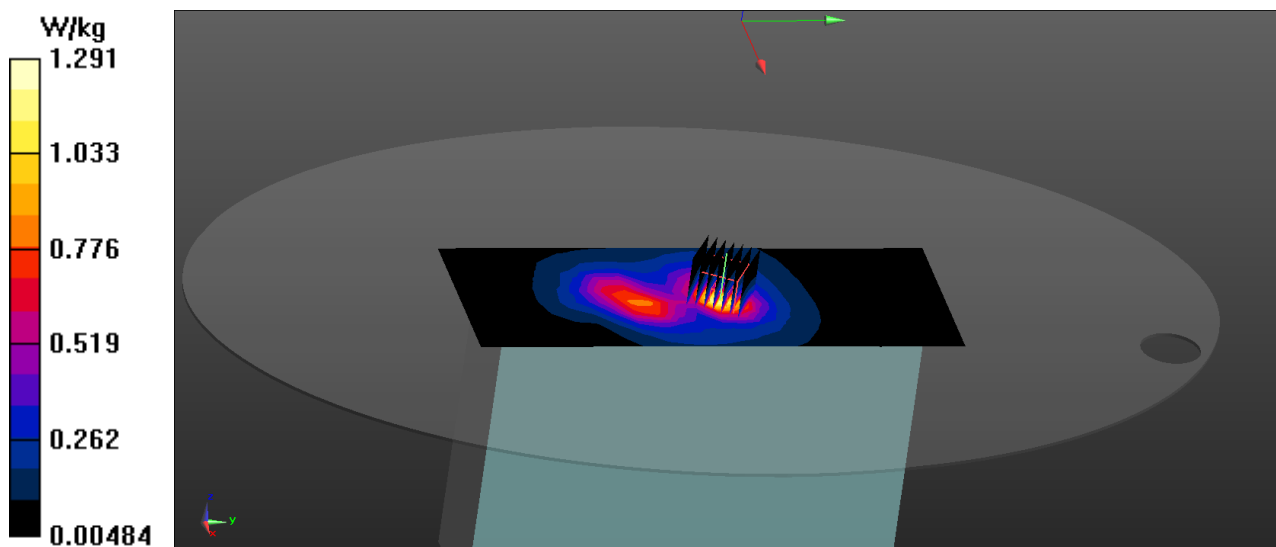
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.90 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.394 W/kg

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



Date: 4/24/2023

Test Laboratory: Intertek Service

LTE Band25_left Side_CH 26140

Communication System: UID 0, Generic LTE FDD (0); Frequency: 1860 MHz; Duty Cycle: 1:3.74973
Medium: 1950 Head Medium parameters used: $f = 1860$ MHz; $\sigma = 1.341$ S/m; $\epsilon_r = 40.564$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(8.05, 8.05, 8.05) @ 1860 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (10x20x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.90 W/kg

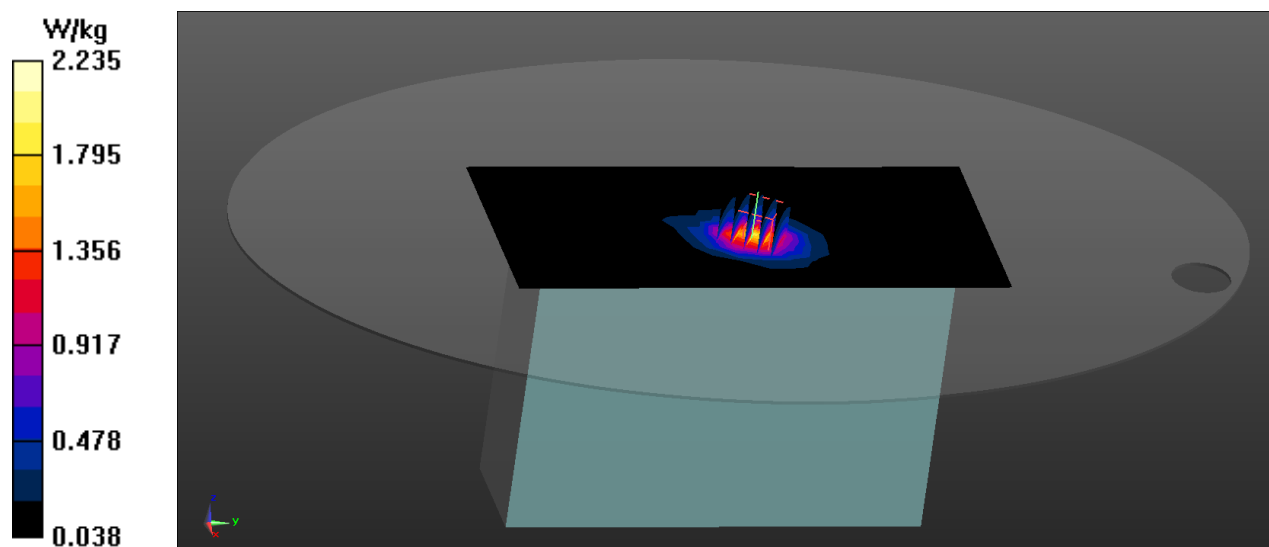
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 29.51 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.67 W/kg

SAR(1 g) = 1.46 W/kg; SAR(10 g) = 0.801 W/kg

Maximum value of SAR (measured) = 2.23 W/kg



Date: 4/26/2023

Test Laboratory: Intertek Service

FCC LTE BAND26 Front-Side_CH 26765 (814MHz-824MHz)

Communication System: UID 0, Generic LTE (0); Frequency: 821.5 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used (extrapolated): $f = 821.5 \text{ MHz}$; $\sigma = 0.898 \text{ S/m}$; $\epsilon_r = 41.082$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(9.81, 9.81, 9.81) @ 836.5 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.432 W/kg

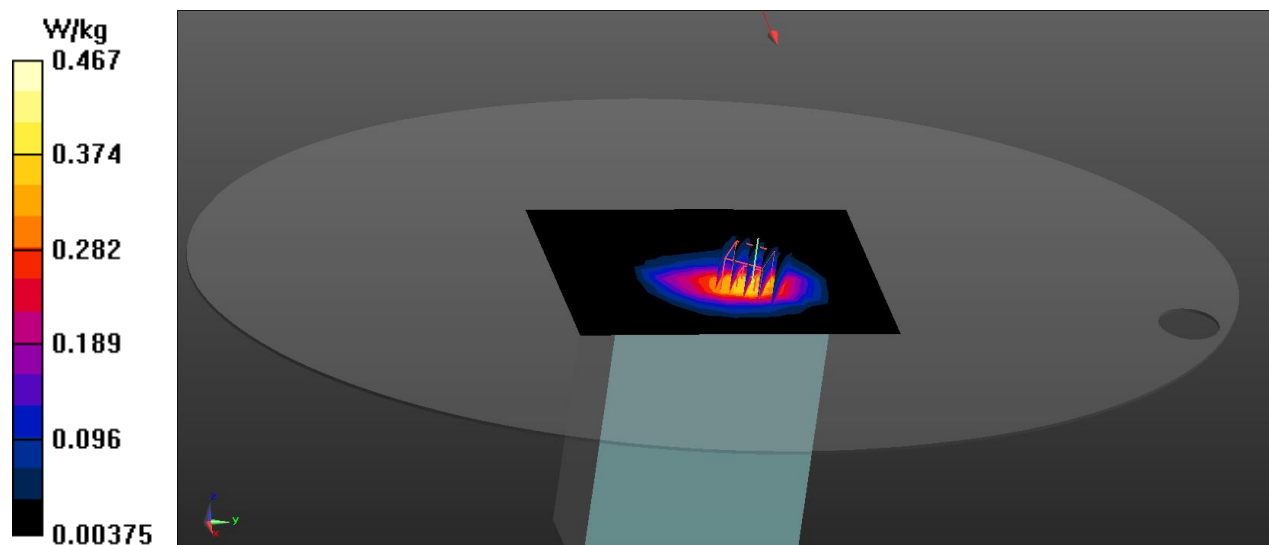
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.596 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.175 W/kg

Maximum value of SAR (measured) = 0.467 W/kg



Date: 4/26/2023

Test Laboratory: Intertek Service

LTE Band26_left Side_CH 26865

Communication System: UID 0, Generic LTE FDD (0); Frequency: 831.5 MHz; Duty Cycle: 1:3.74973
Medium: 900 Head Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 42.274$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(9.81, 9.81, 9.81) @ 831.5 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (10x13x1): Measurement grid: dx=15mm, dy=15mm

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

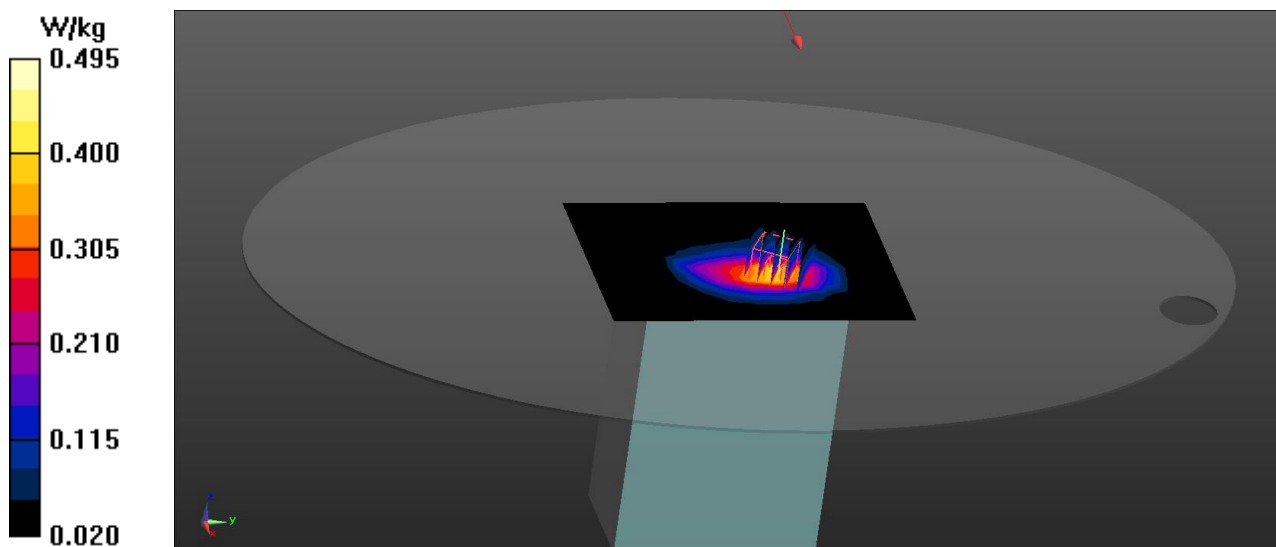
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.98 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.591 W/kg

SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 0.495 W/kg



Date: 4/28/2023

Test Laboratory: Intertek Service

LTE Band38_front Side_CH 38150

Communication System: UID 0, Generic LTE TDD (0); Frequency: 2610 MHz; Duty Cycle: 1:6.35331
Medium: 2600 Head Medium parameters used: $f = 2610$ MHz; $\sigma = 2.068$ S/m; $\epsilon_r = 37.58$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(7.3, 7.3, 7.3) @ 2610 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (18x24x1): Measurement grid: dx=12mm, dy=12mm

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

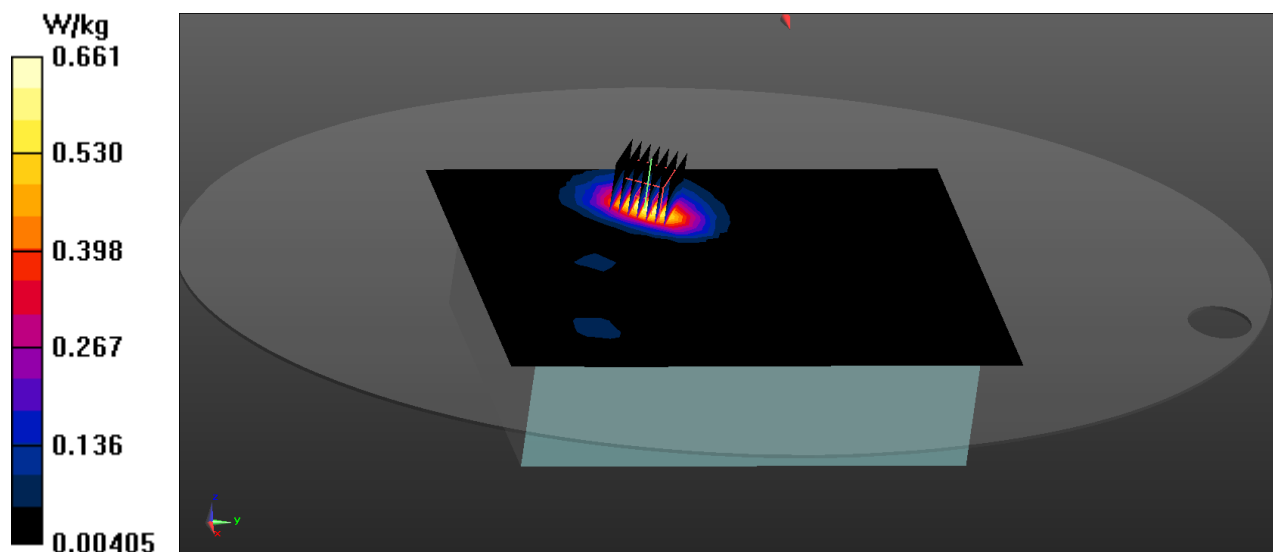
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.816 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.821 W/kg

SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.214 W/kg

Maximum value of SAR (measured) = 0.661 W/kg



Test Laboratory: Intertek Service

LTE_Band41 front Side_CH 39750 1RB

Communication System: UID 0, Generic LTE TDD (0); Frequency: 2506 MHz; Duty Cycle: 1:6.35331
Medium: 2600 Head Medium parameters used: $f = 2506$ MHz; $\sigma = 1.947$ S/m; $\epsilon_r = 38.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.0 °C; Liquid Temperature: 21.5 °C

DASY Configuration:

Probe: EX3DV4 - SN7322; ConvF(7.5, 7.5, 7.5) @ 2506 MHz; Calibrated: 2/28/2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1473; Calibrated: 2/8/2023

Phantom: ELI V6.0 (20deg probe tilt); Type: QD OVA 003 AA; Serial: 2033

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Area Scan (18x24x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.447 W/kg

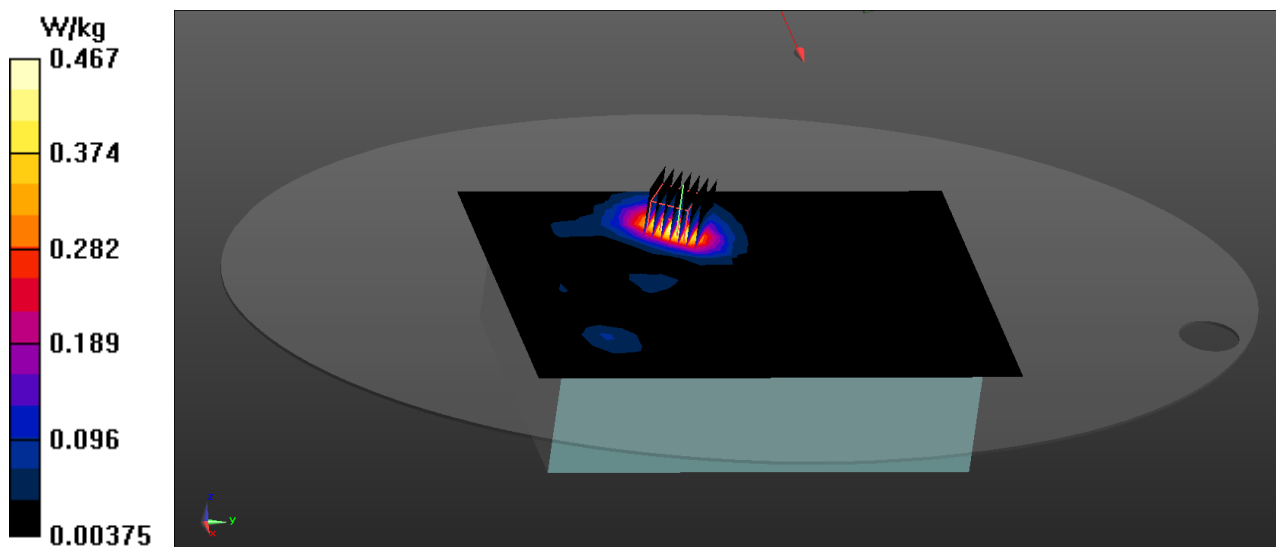
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.596 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.156 W/kg

Maximum value of SAR (measured) = 0.467 W/kg



ANNEX D: 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.

Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return loss (≤ 20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

Table D.1: Antenna Parameters with Body Tissue Simulating Liquid

Table D.1: System Validation Part 1

Dipole D835V2 SN: 4d196				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
2021-10-18	-27.1	-	51.3+4.29j	-
2022-09-20	-26.8	-0.3	51.0+4.11j	0.3

Dipole D1750V2 SN: 1138				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
2021-10-19	-36.5	-	50.1+1.49j	-
2022-09-20	-36.7	0.2	49.8+0.23j	-0.3

Dipole D1900V2 SN: 5d203				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
2021-10-18	-23.6	-	54.9+4.90j	-
2022-09-20	-23.1	-0.5	55.5+3.49j	0.6

Dipole D2450V2 SN: 966				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
2021-10-21	-26.0	-	54.2+3.04j	-
2022-09-20	-25.5	-0.5	54.9+2.25j	0.7

Dipole D2600V2 SN: 1108				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	$\Delta\Omega$
2021-10-19	-23.8	-	50.9+6.47j	-
2022-09-20	-23.1	-0.7	51.3+5.42j	0.4

Table D.2: System Validation Part 2

System No.	Probe SN.	Liquid name	Validation date	Frequency point	Permittivity ϵ	Conductivity σ (S/m)
1	4d196	Head	2023-04-26	835 MHz	41.50	0.89
3	1138	Head	2023-04-25	1750MHz	40.02	1.38
4	5d203	Head	2023-04-24	1900MHz	39.75	1.45
5	966	Head	2023-04-27	2450MHz	37.97	1.88
6	1108	Head	2023-04-28	2600MHz	39.53	2.02

Table D.3: System Validation Part 3

CW Validation	Sensitivity	PASS	PASS
	Probe linearity	PASS	PASS
	Probe Isotropy	PASS	PASS
Mod. Validation	MOD.type	QPSK	QPSK
	Duty factor	PASS	PASS
	PAR	PASS	PASS