

Test Laboratory: Huatongwei International Inspection Co., Ltd.,SAR Lab

Date: 8/5/2019

GSM 850-Body

Communication System: UID 0, Generic GPRS(TDMA, GMSK, TN 0-1-2) (0); Frequency: 848.8 MHz;Duty Cycle: 1:2.66993

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 42.899$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

Ambient Temperature:22.6°C;Liquid Temperature:22.3°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(10.41, 10.41, 10.41) @ 848.8 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 190/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.419 W/kg

Rear/CH 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

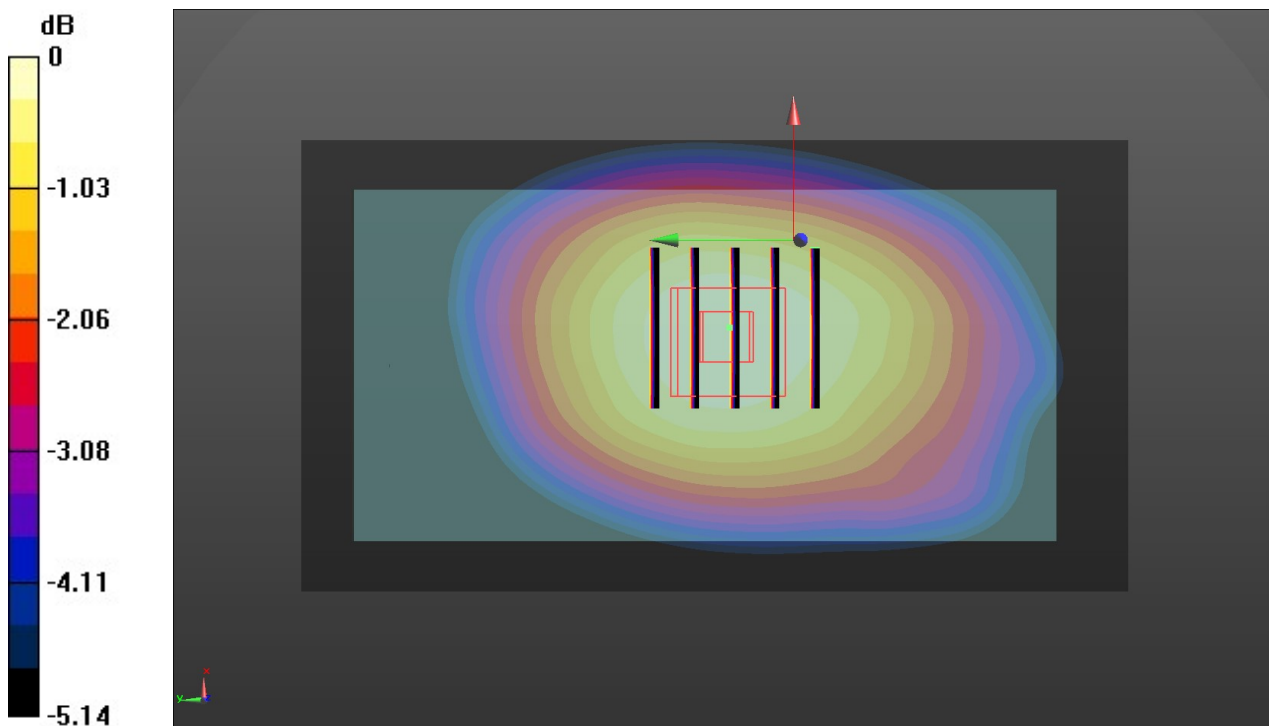
Reference Value = 21.77 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.238 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.414 W/kg



0 dB = 0.414 W/kg = -3.83 dBW/kg

GSM 1900-Body

Communication System: UID 0, Generic GPRS(TDMA, GMSK, TN 0-1-2) (0); Frequency: 1880 MHz;Duty Cycle: 1:2.66993

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.455 \text{ S/m}$; $\epsilon_r = 41.738$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

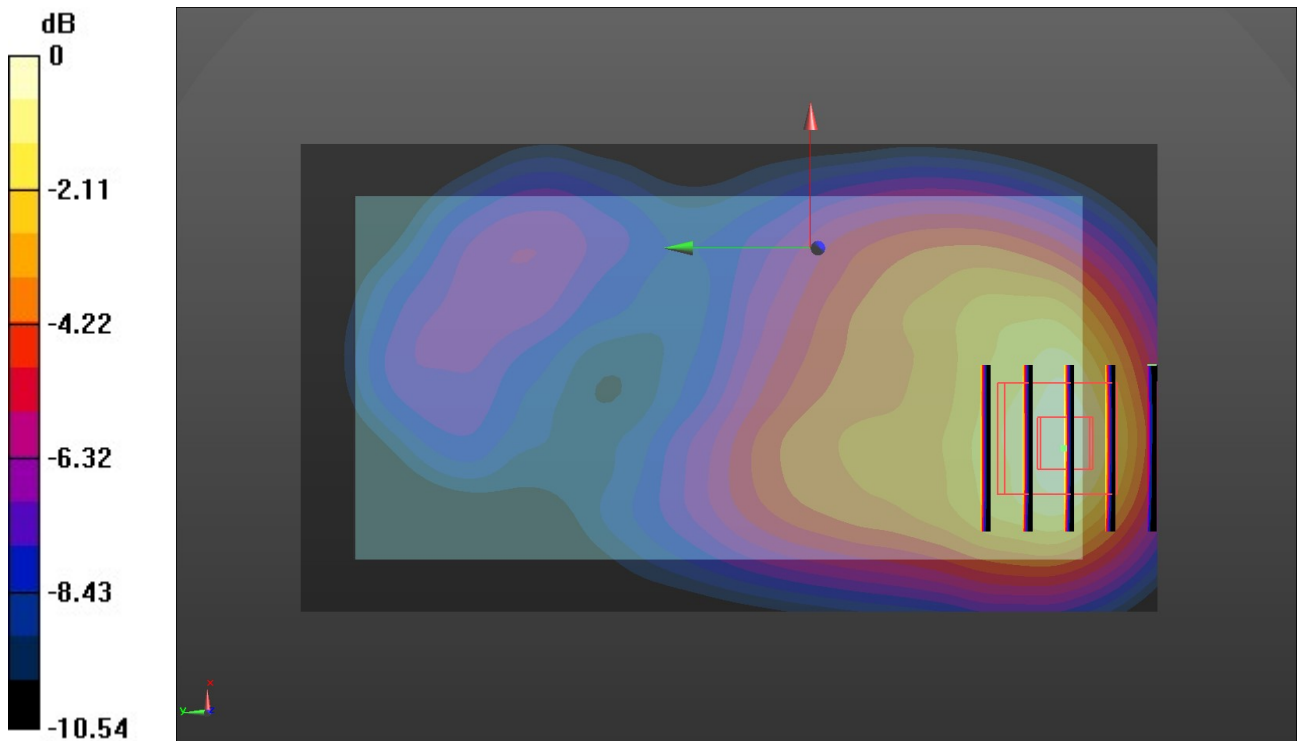
Ambient Temperature:22.3°C;Liquid Temperature:22.0°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(8.57, 8.57, 8.57) @ 1880 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 661/Area Scan (61x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.431 W/kg

Rear/CH 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 8.309 V/m; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 0.501 W/kg
SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.156 W/kg
 Maximum value of SAR (measured) = 0.417 W/kg



0 dB = 0.417 W/kg = -3.80 dBW/kg

WCDMA Band II-Body

Communication System: UID 0, Generic UMTS (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.468$ S/m; $\epsilon_r = 41.655$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2°C;Liquid Temperature:21.9°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(8.57, 8.57, 8.57) @ 1907.6 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 9538/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Rear/CH 9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

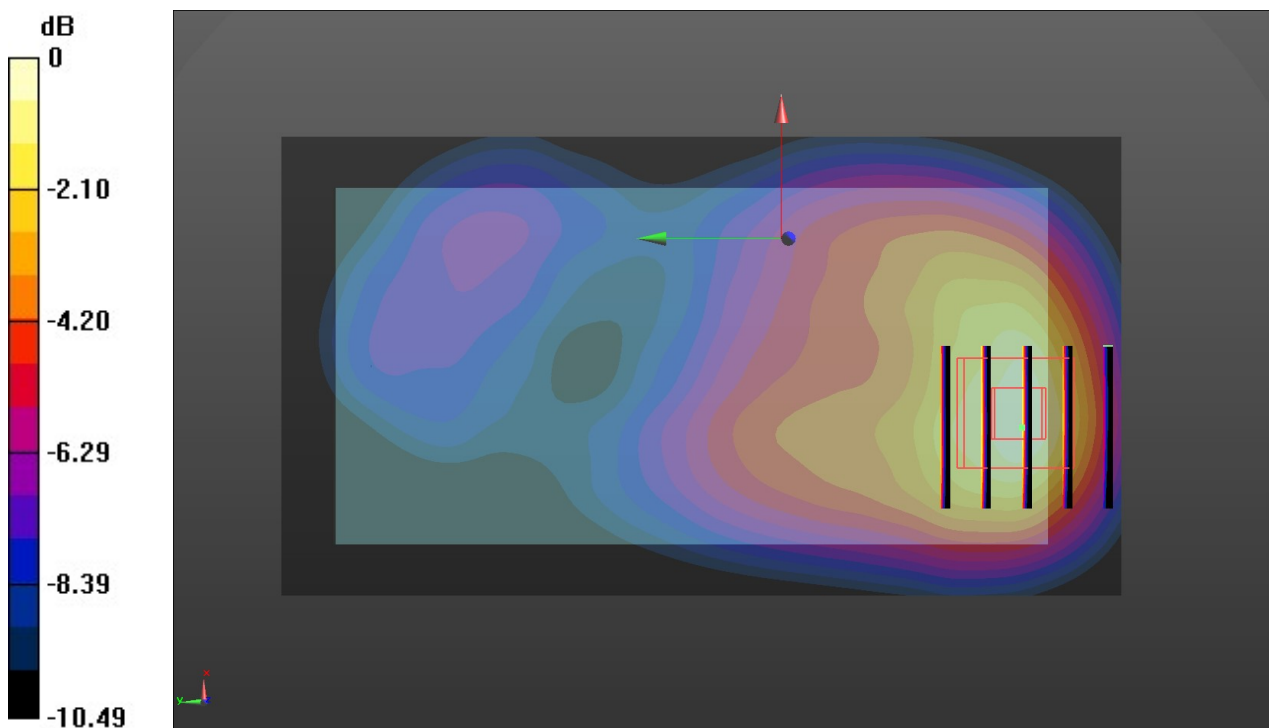
Reference Value = 12.15 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.326 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.879 W/kg



0 dB = 0.879 W/kg = -0.56 dBW/kg

WCDMA Band V-Body

Communication System: UID 0, Generic UMTS (0); Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.938$ S/m; $\epsilon_r = 42.885$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.0°C;Liquid Temperature:21.8°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(10.41, 10.41, 10.41) @ 846.6 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 4233/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.344 W/kg

Rear/CH 4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

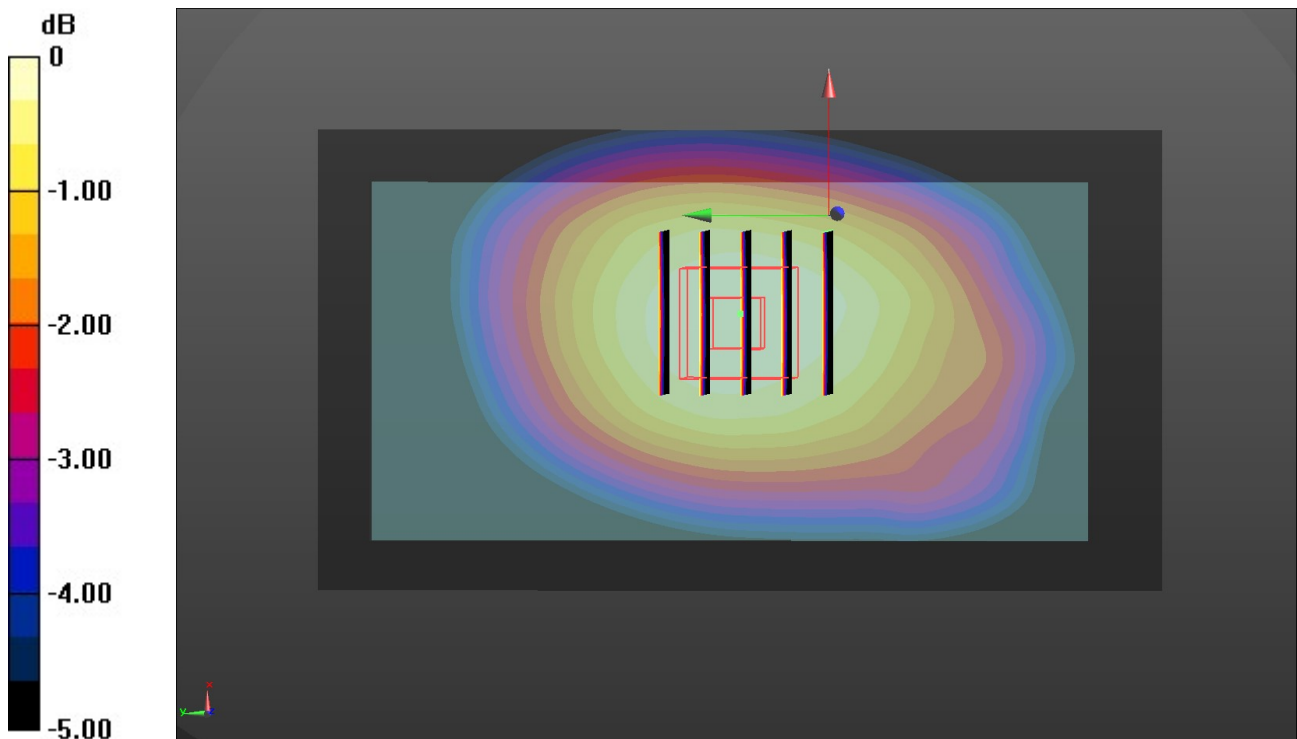
Reference Value = 19.15 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.379 W/kg

SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.198 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.338 W/kg



0 dB = 0.338 W/kg = -4.71 dBW/kg

LTE Band 2-Body

Communication System: UID 0, Generic LTE-FDD (0); Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.466 \text{ S/m}$; $\epsilon_r = 41.665$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature:22.0°C;Liquid Temperature:21.8°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(8.57, 8.57, 8.57) @ 1900 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 19100/Area Scan (61x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.937 W/kg

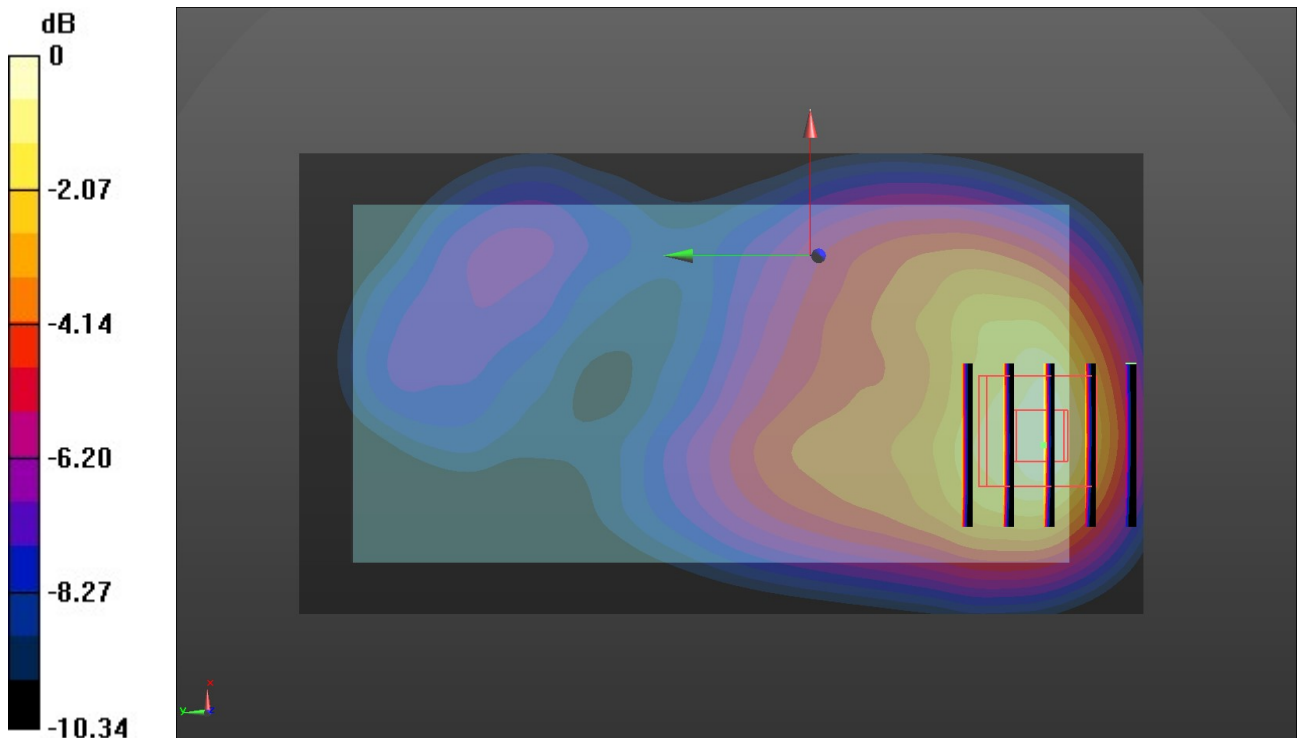
Rear/CH 19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.48 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.344 W/kg

Maximum value of SAR (measured) = 0.930 W/kg



0 dB = 0.930 W/kg = -0.32 dBW/kg

Test Laboratory: Huatongwei International Inspection Co., Ltd.,SAR Lab

Date: 8/8/2019

LTE Band 4-Body

Communication System: UID 0, Generic LTE-FDD (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.363$ S/m; $\epsilon_r = 41.972$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2°C;Liquid Temperature:21.9°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(8.91, 8.91, 8.91) @ 1732.5 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 20175/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.713 W/kg

Rear/CH 20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

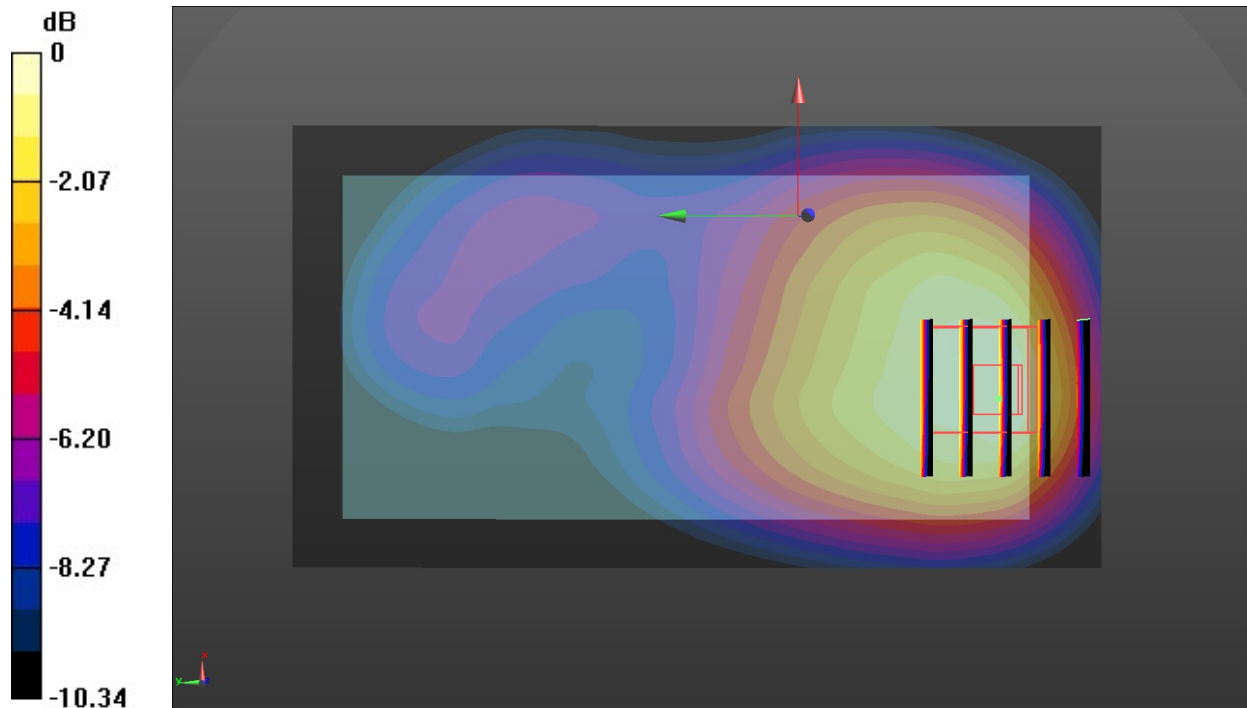
Reference Value = 11.45 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.838 W/kg

SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.289 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.699 W/kg



0 dB = 0.699 W/kg = -1.56 dBW/kg

LTE Band 5-Body

Communication System: UID 0, Generic LTE-FDD (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 42.899$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Ambient Temperature:22.3°C;Liquid Temperature:22.1°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(10.41, 10.41, 10.41) @ 836.5 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 20525/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.312 W/kg

Rear/CH 20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

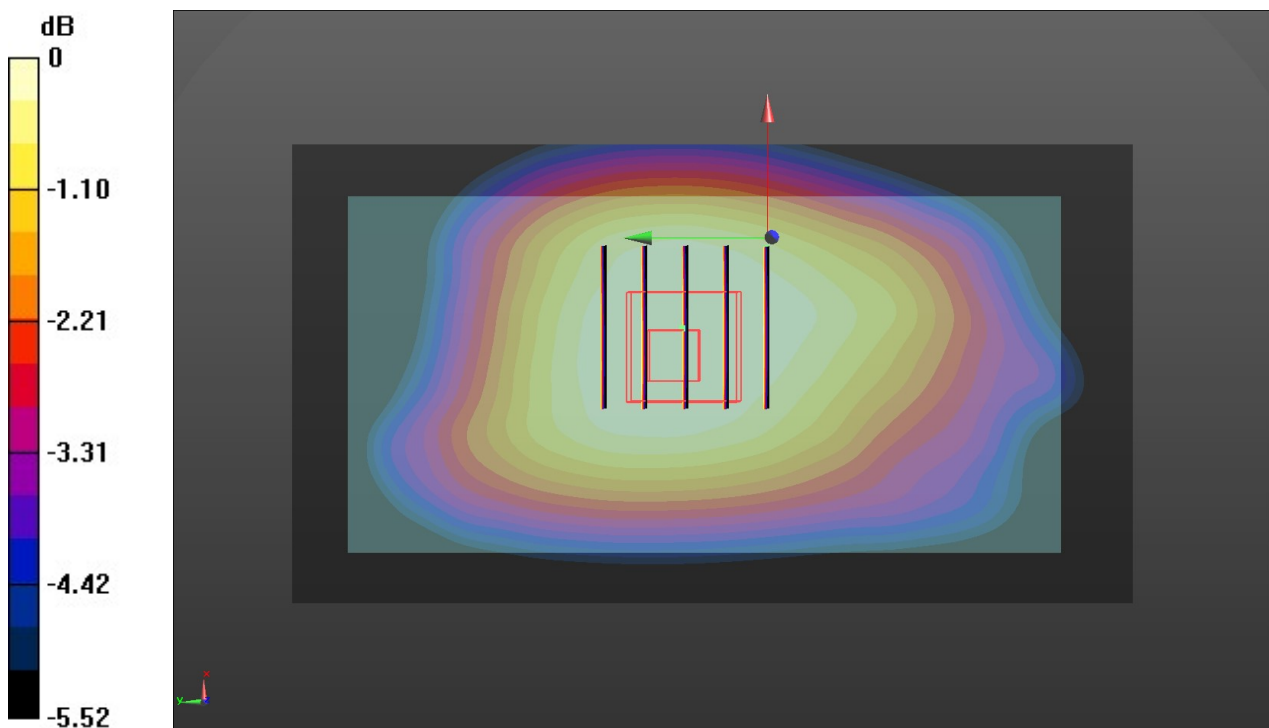
Reference Value = 18.68 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.331 W/kg

SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.181 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.296 W/kg



0 dB = 0.296 W/kg = -5.29 dBW/kg

LTE Band 7-Body

Communication System: UID 0, Generic LTE-FDD (0); Frequency: 2510 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2510 \text{ MHz}$; $\sigma = 1.898 \text{ S/m}$; $\epsilon_r = 40.794$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature:22.3°C;Liquid Temperature:22.0°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(7.9, 7.9, 7.9) @ 2510 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 20850/Area Scan (81x141x1): Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$
 Maximum value of SAR (interpolated) = 1.93 W/kg

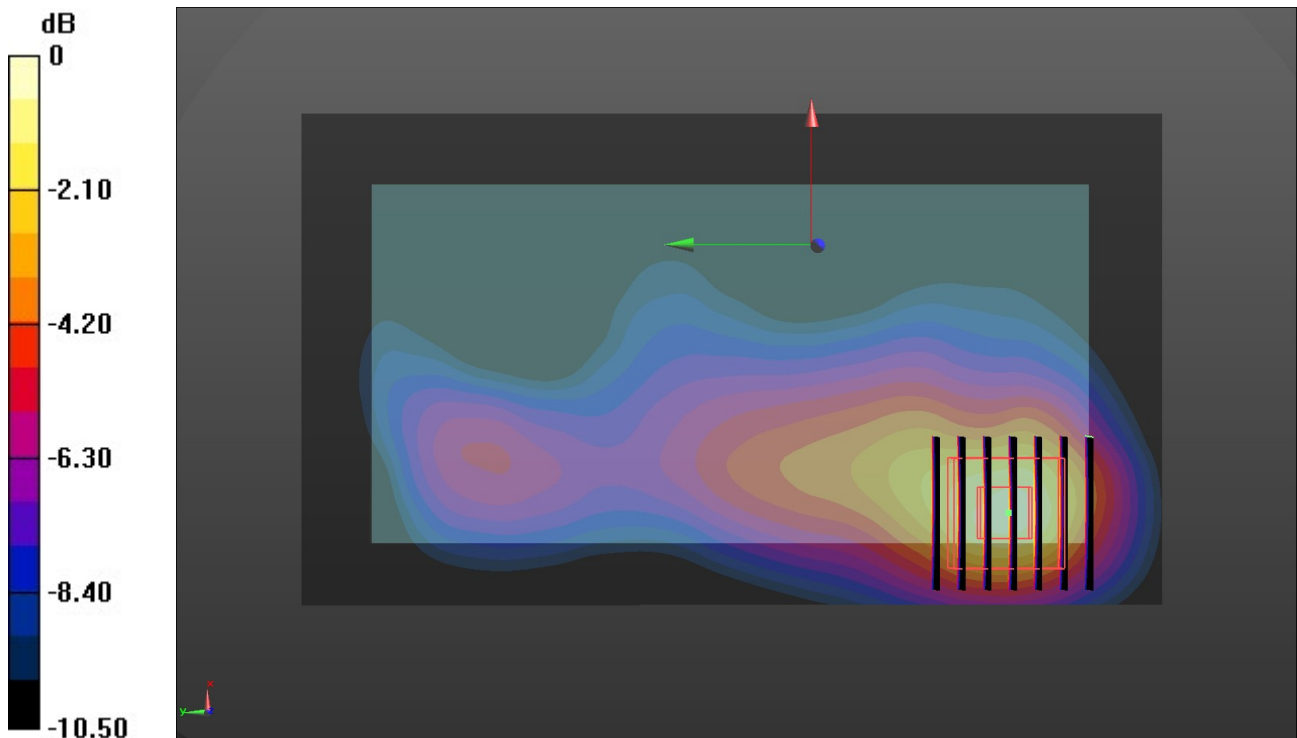
Rear/CH 20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.48 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.592 W/kg

Maximum value of SAR (measured) = 2.05 W/kg



0 dB = 2.05 W/kg = 3.12 dBW/kg

LTE Band 38-Body

Communication System: UID 0, Generic LTE-TDD (0); Frequency: 2610 MHz;Duty Cycle: 1:1.57979

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.978$ S/m; $\epsilon_r = 40.611$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.0°C;Liquid Temperature:21.7°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(7.69, 7.69, 7.69) @ 2610 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 38150/Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.749 W/kg

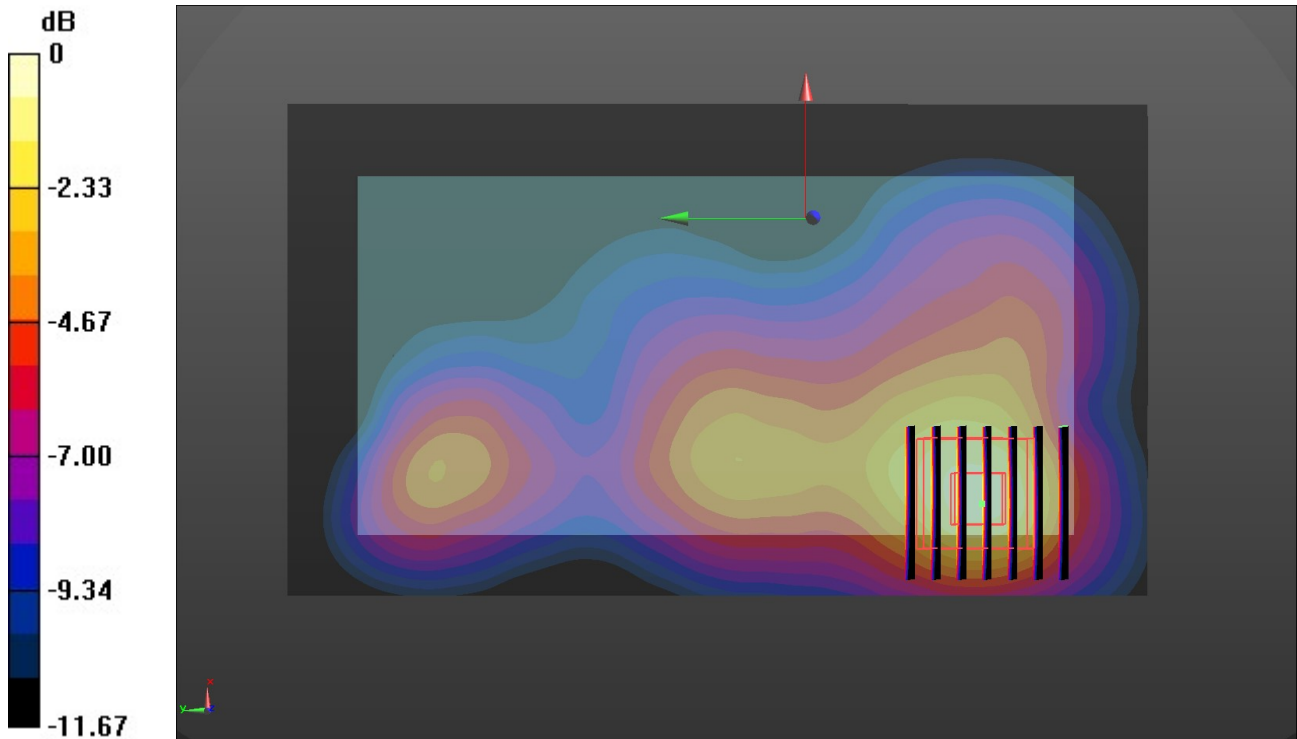
Rear/CH 38150/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.50 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.243 W/kg

Maximum value of SAR (measured) = 0.817 W/kg



0 dB = 0.817 W/kg = -0.88 dBW/kg

WiFi 2.4G-Body

Communication System: UID 0, Generic WIFI (0); Frequency: 2462 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.852$ S/m; $\epsilon_r = 40.886$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.1°C;Liquid Temperature:21.8°C;

DASY Configuration:

- Probe: EX3DV4 - SN7494; ConvF(7.9, 7.9, 7.9) @ 2462 MHz; Calibrated: 3/25/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 3/19/2019
- Phantom: Twin-SAM V8.0 ; Type: QD 000 P41 AA; Serial: 1974
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Rear/CH 11/Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.303 W/kg

Rear/CH 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

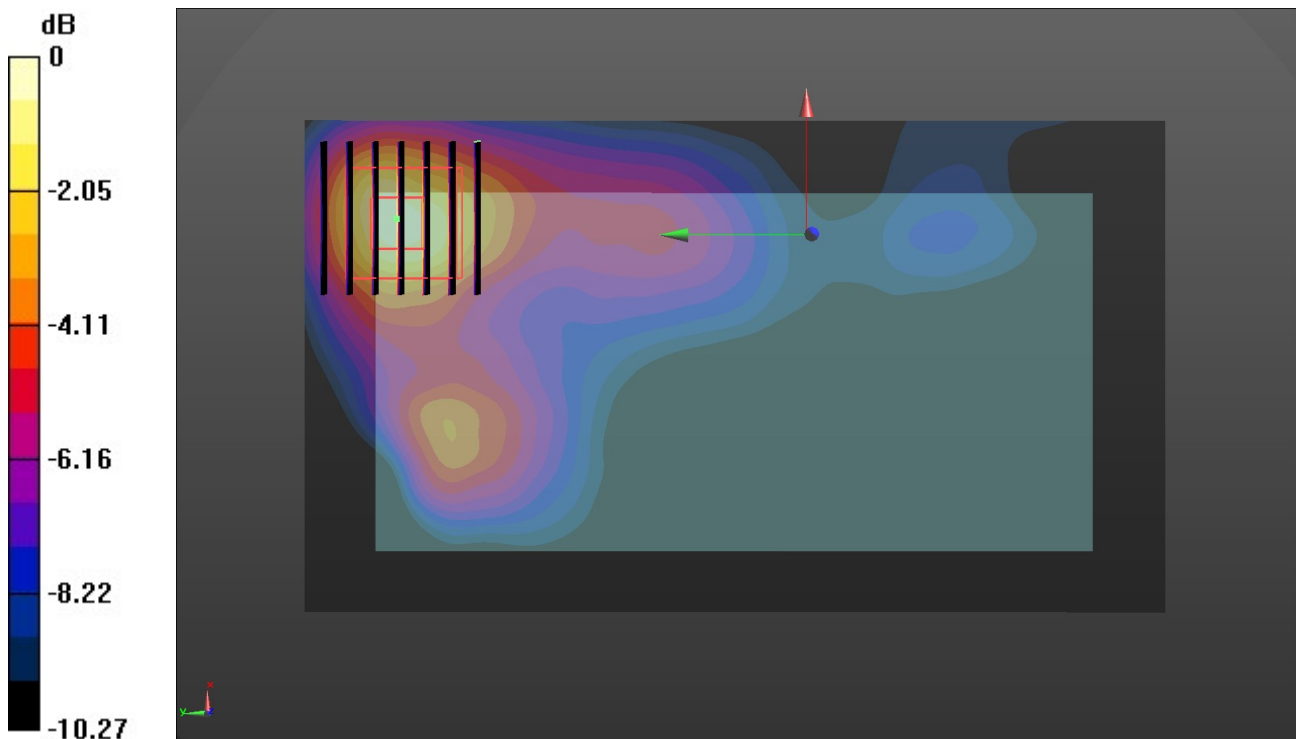
Reference Value = 6.762 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.406 W/kg

SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.083 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



0 dB = 0.319 W/kg = -4.96 dBW/kg