Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.16

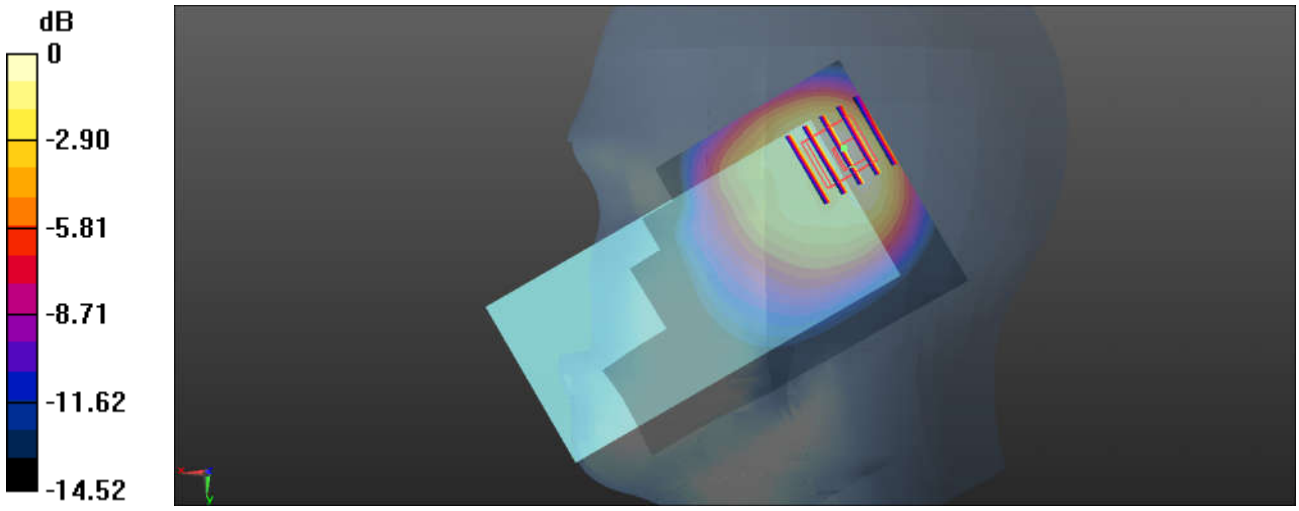
01_GSM850-UAT_GSM Voice_Right Cheek_0mm_Battery 1_SIM1_Ch189

Communication System: UID 0, GSM850-1UP (0); Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: HSL_835 Medium parameters used: f = 836.4 MHz; σ = 0.922 S/m; ε_r = 42.532;
ρ = 1000 kg/m^3
Ambient Temperature：23.1 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch189/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.785 W/kg

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.36 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.327 W/kg
Maximum value of SAR (measured) = 0.770 W/kg



0 dB = 0.770 W/kg

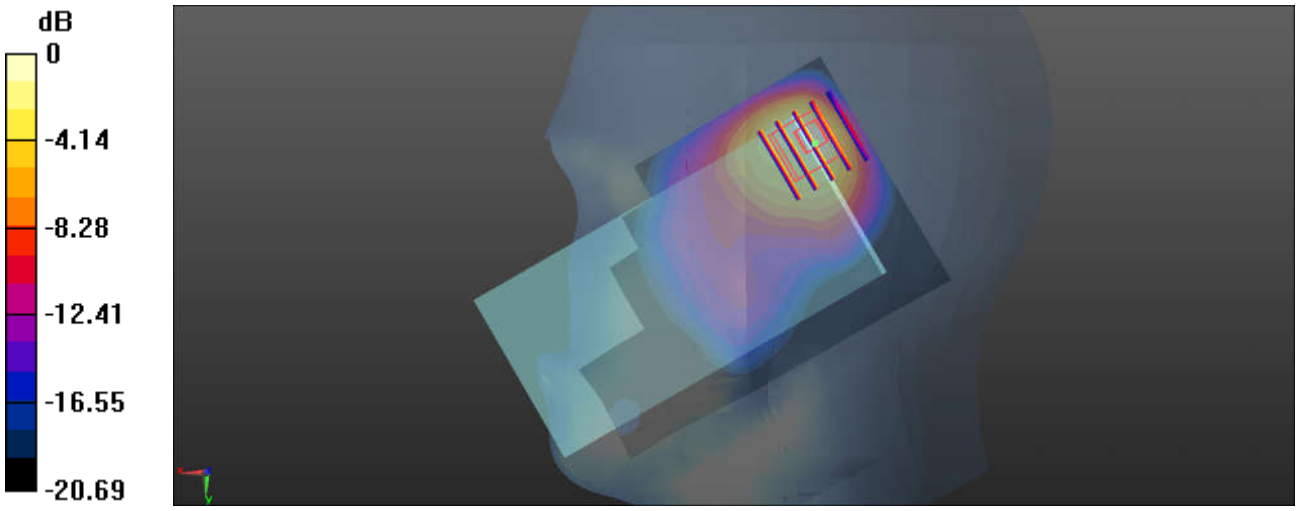
02_GSM1900-UAT_GSM Voice_Right Tilted_0mm_Battery 1_SIM2_Ch661

Communication System: UID 0, PCS-1UP (0); Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.409 S/m; ε_r = 39.369; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch661/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.759 W/kg

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.63 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.561 W/kg; SAR(10 g) = 0.251 W/kg
Maximum value of SAR (measured) = 0.777 W/kg



0 dB = 0.777 W/kg

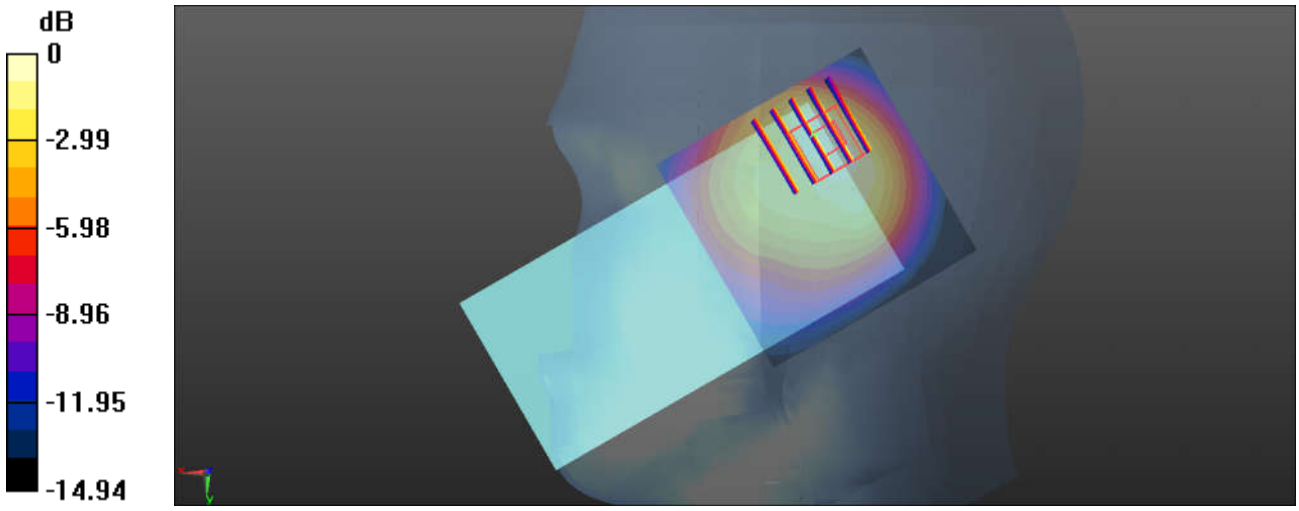
03_WCDMA Band V-UAT_RMC 12.2Kbps_Right Cheek_0mm_Battery 2_SIM1_Ch4182

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: f = 836.4 MHz; σ = 0.922 S/m; ε_r = 42.532;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.1 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch4182/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.993 W/kg

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.36 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.49 W/kg
SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.393 W/kg
Maximum value of SAR (measured) = 0.885 W/kg



0 dB = 0.885 W/kg

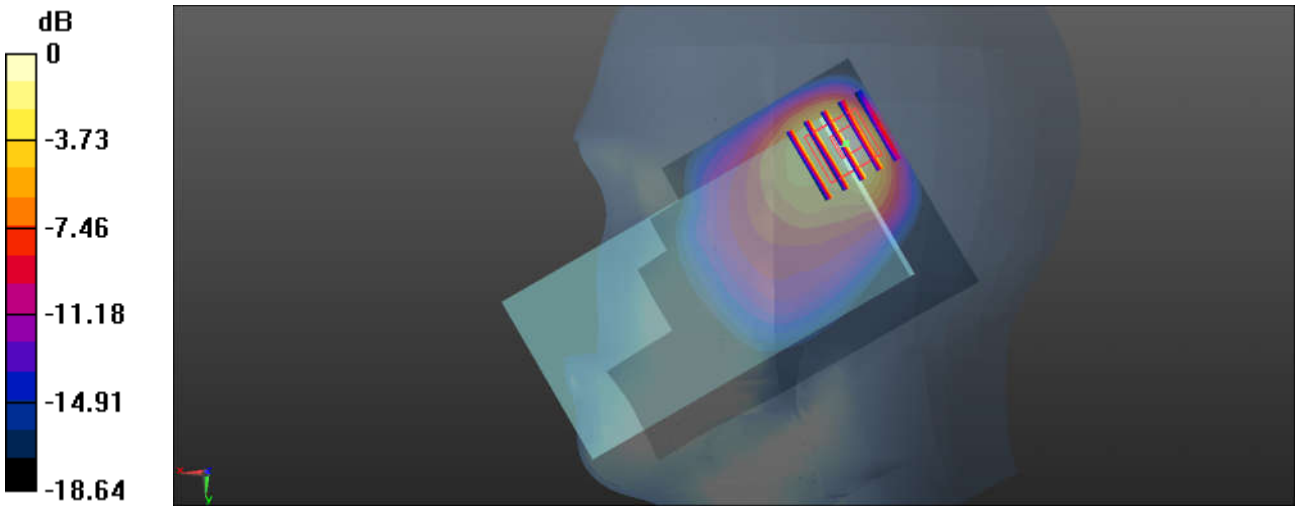
04_WCDMA Band IV-UAT_RMC 12.2Kbps_Right Tilted_0mm_Battery 1_SIM1_Ch1312

Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: f = 1712.4 MHz; σ = 1.342 S/m; ε_r = 41.299;
ρ =1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.9 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(5.40, 5.40, 5.40); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch1312/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.16 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.381 W/kg
Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg

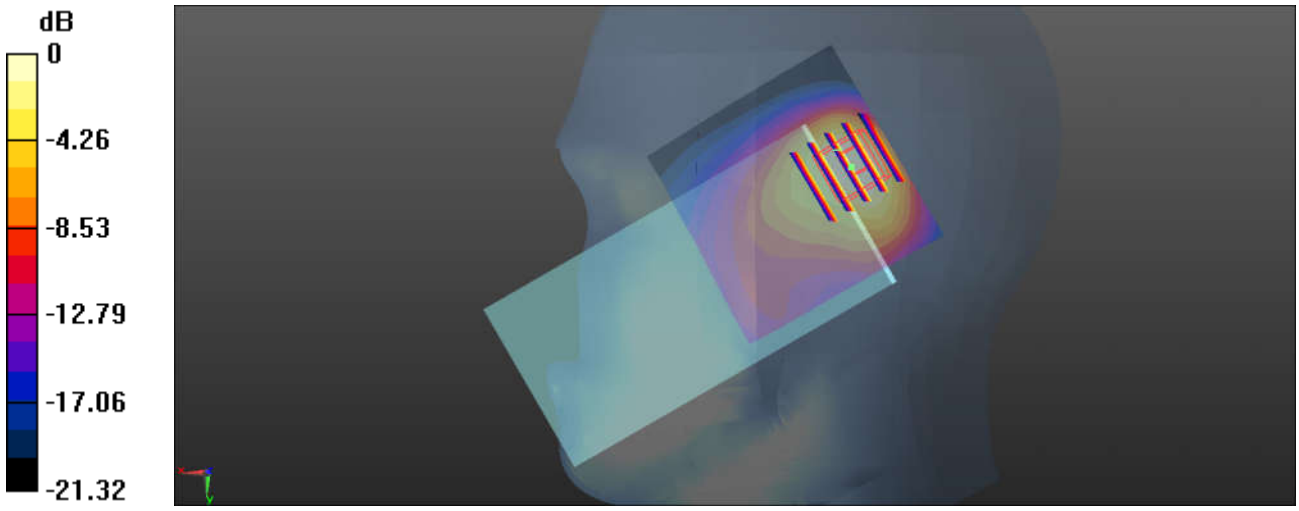
05_WCDMA Band II-UAT_RMC 12.2Kbps_Right Tilted_0mm_Battery 1_SIM2_Ch9400

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.409 S/m; ε_r = 39.369; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch9400/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.18 W/kg

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.45 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.67 W/kg
SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.321 W/kg
Maximum value of SAR (measured) = 0.906 W/kg



0 dB = 0.906 W/kg

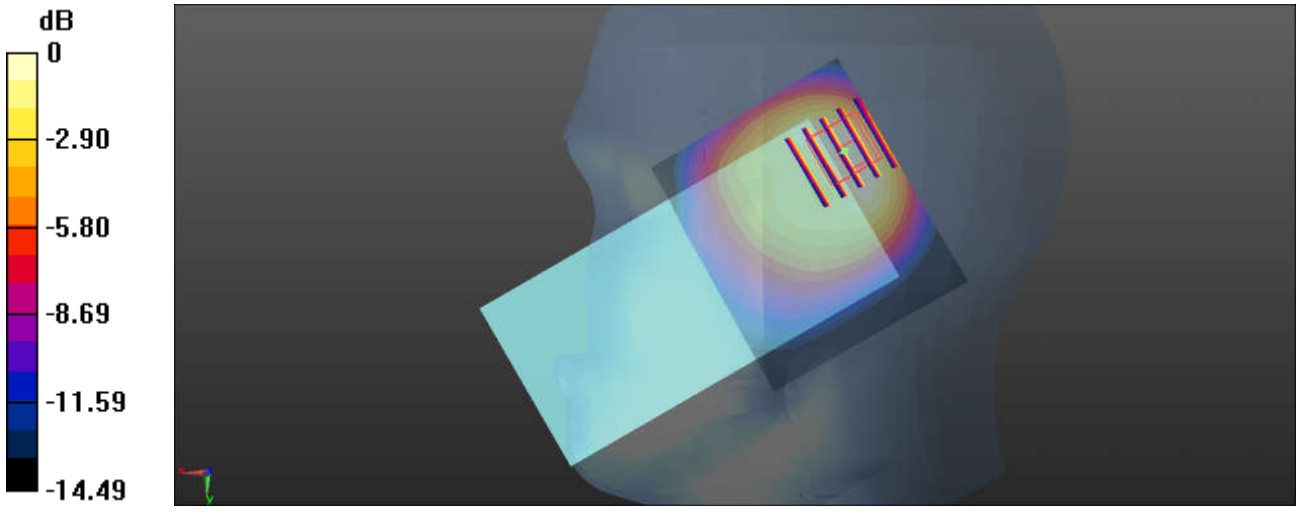
06_LTE Band 5-UAT_10M_QPSK_1RB_0Offset_Right Cheek_0mm_Battery1_SIM1_Ch20525

Communication System: UID 0, LTE-FDD (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: f = 836.5 MHz; σ = 0.922 S/m; ε_r = 42.531;
ρ = 1000kg/m^3
Ambient Temperature：23.1 ℃； Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch20525/Area Scan (71x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.704 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.06 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.291 W/kg
Maximum value of SAR (measured) = 0.679 W/kg



0 dB = 0.679 W/kg

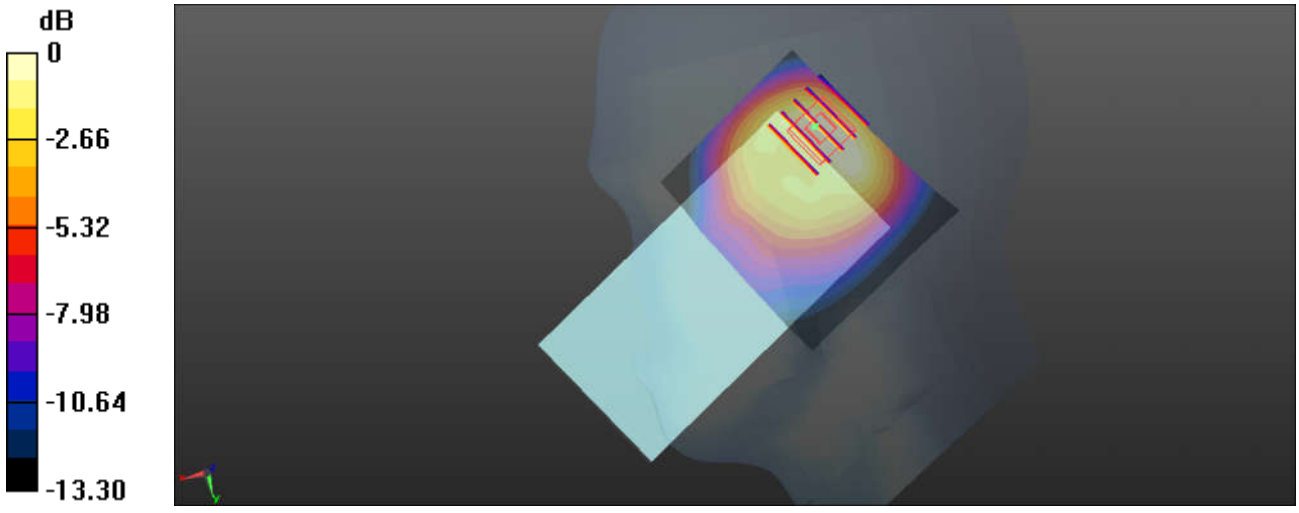
07_LTE Band 26-UAT_15M_QPSK_1RB_37Offset_Right Cheek_0mm_Battery1_SIM1_Ch26865

Communication System: UID 0, LTE-FDD (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: f = 831.5 MHz; σ = 0.917 S/m; ε_r = 42.568;
ρ = 1000kg/m^3
Ambient Temperature：23.1 ℃； Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.47, 6.47, 6.47); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch26865/Area Scan (71x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.764 W/kg

Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.00 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.01 W/kg
SAR(1 g) = 0.587 W/kg; SAR(10 g) = 0.355 W/kg
Maximum value of SAR (measured) = 0.747 W/kg



0 dB = 0.747 W/kg

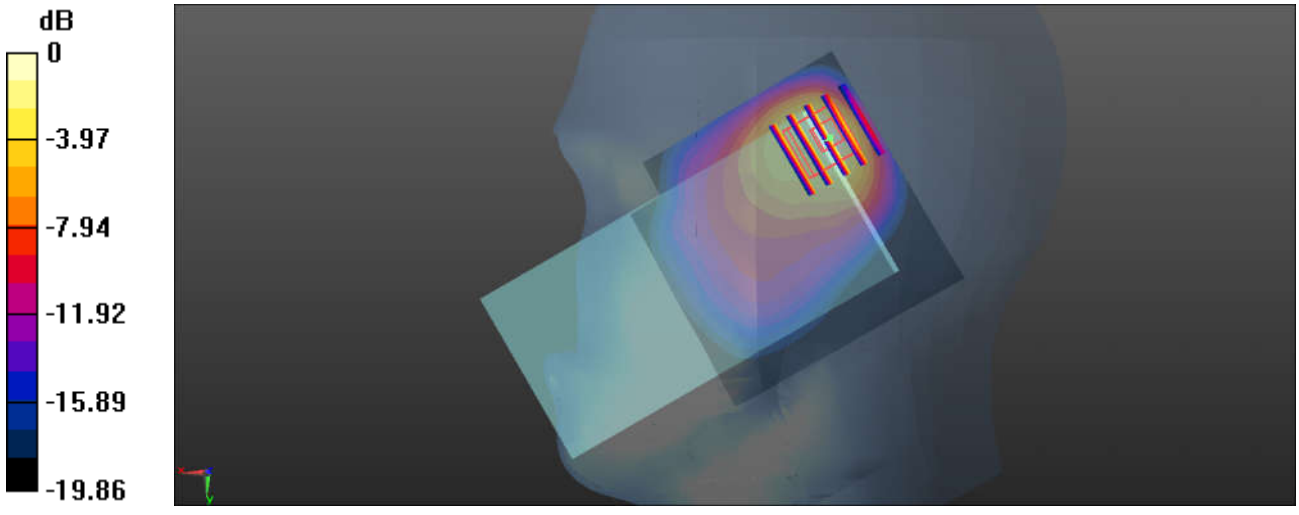
08_LTE Band 4-UAT_20M_QPSK_50RB_0Offset_Right Tilted_0mm_Battery1_SIM1_Ch20175

Communication System: UID 0, LTE-FDD (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: f = 1732.5 MHz; σ = 1.365 S/m; ε_r = 41.188;
$\rho = 1000 kg/m^3$
Ambient Temperature：23.2 ℃； Liquid Temperature：22.9 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(5.40, 5.40, 5.40); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch20175/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.942 W/kg

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.49 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.695 W/kg; SAR(10 g) = 0.317 W/kg
Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.00 W/kg

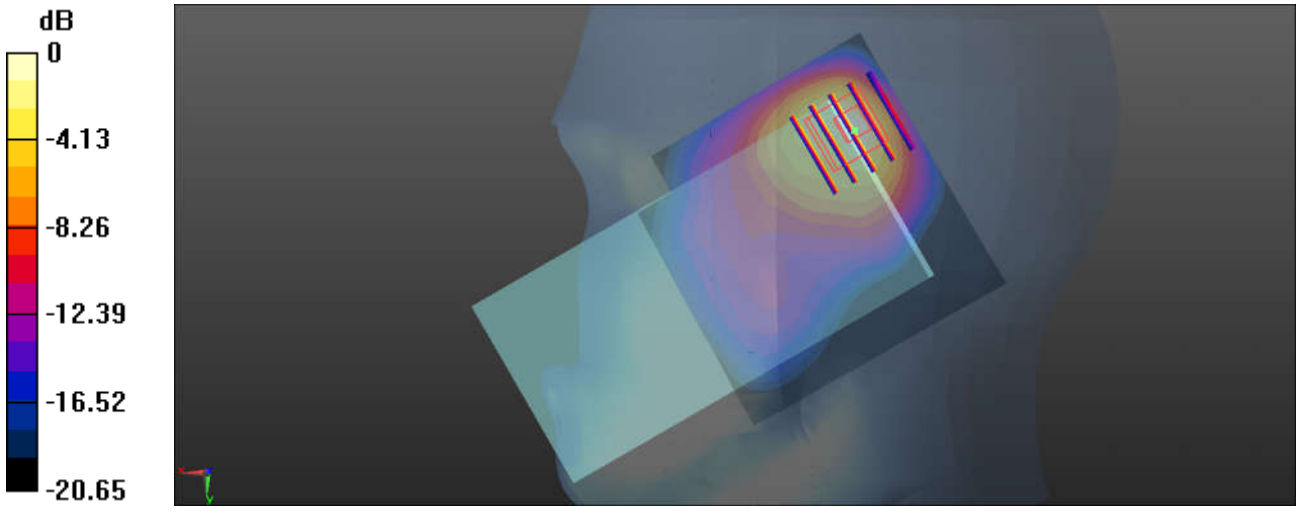
09_LTE Band 2-UAT_20M_QPSK_100RB_0Offset_Right Tilted_0mm_Battery1_SIM1_Ch19100

Communication System: UID 0, LTE-FDD (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.432 S/m; ε_r = 39.278;
ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(5.19, 5.19, 5.19); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch19100/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.05 W/kg

Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.01 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.99 W/kg
SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.356 W/kg
Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg

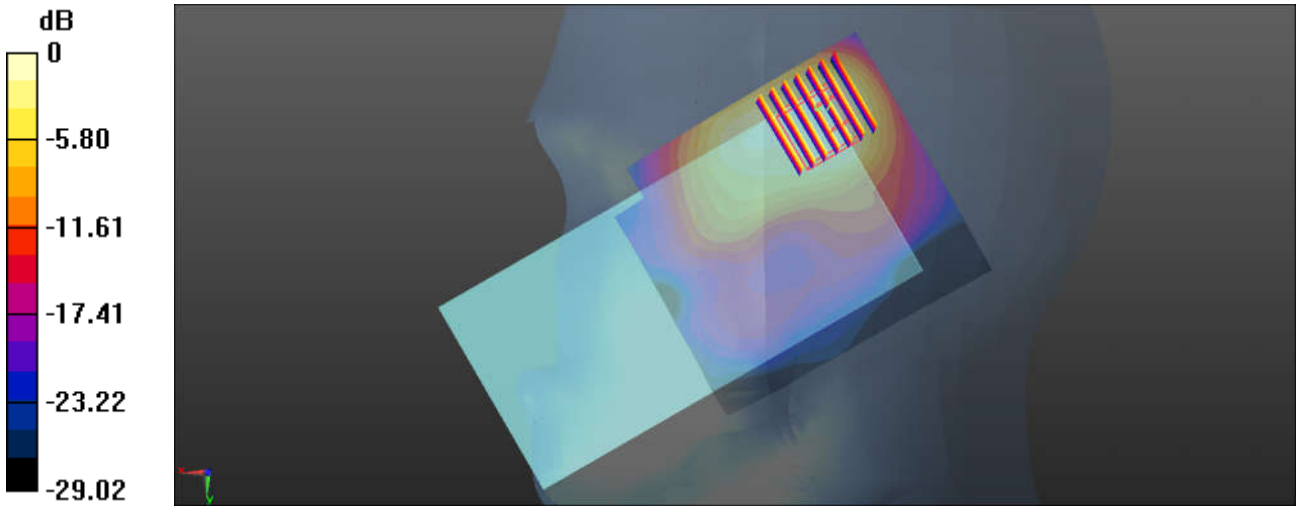
10_LTE Band 7-UAT_20M_QPSK_100RB_0Offset_Right Cheek_0mm_Battery1_SIM1_Ch20850

Communication System: UID 0, LTE-FDD (0); Frequency: 2510 MHz;Duty Cycle: 1:1
Medium: HSL_2600 Medium parameters used: f = 2510 MHz; σ = 1.895 S/m; ε_r = 38.821;
ρ = 1000kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.44, 4.44, 4.44); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch20850/Area Scan (81x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.027 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.46 W/kg
SAR(1 g) = 0.866 W/kg; SAR(10 g) = 0.391 W/kg
Maximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg

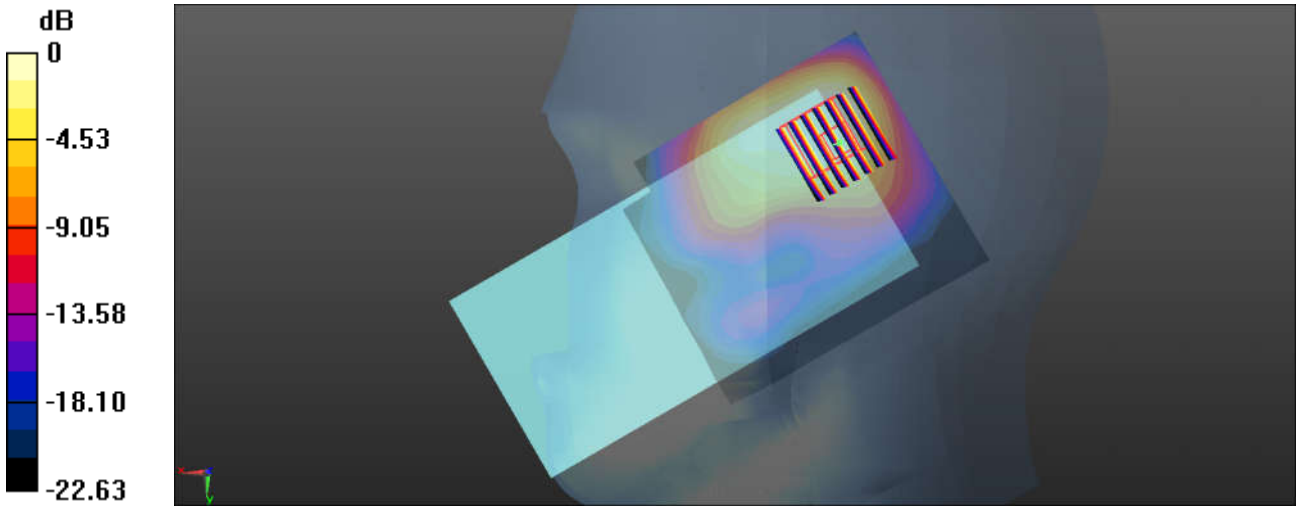
11_LTE Band 38-UAT_20M_QPSK_100RB_0Offset_Right Cheek_0mm_Battery1_SIM2_Ch38000

Communication System: UID 0, LTE-TDD (0); Frequency: 2595 MHz;Duty Cycle: 1:1.59
Medium: HSL_2600 Medium parameters used: f = 2595 MHz; σ = 1.993 S/m; ε_r = 38.47;
ρ = 1000kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.44, 4.44, 4.44); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch38000/Area Scan (81x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.10 W/kg

Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.60 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 2.16 W/kg
SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.387 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg

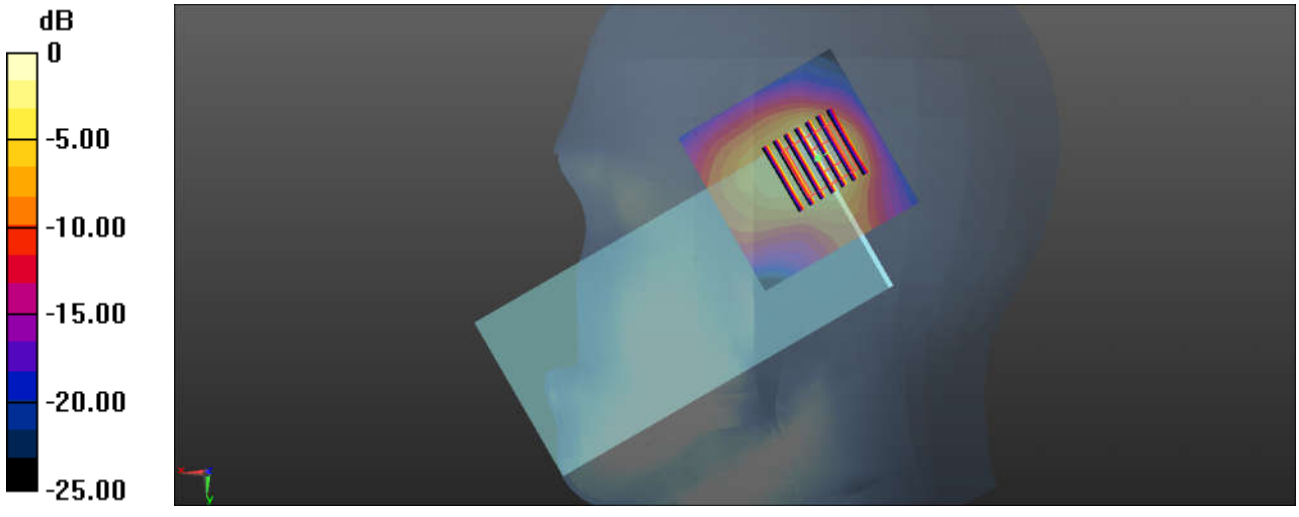
12_LTE Band 41-UAT_20M_QPSK_50RB_50Offset_Right Tilted_0mm_Battery2_SIM2_Ch40240

Communication System: UID 0, LTE-TDD (0); Frequency: 2555 MHz;Duty Cycle: 1:1.59
Medium: HSL_2600 Medium parameters used: f = 2555 MHz; σ = 1.948 S/m; ε_r = 38.635;
ρ = 1000kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.44, 4.44, 4.44); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM1; Type: SAM; Serial: TP-1753
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch40240/Area Scan (61x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.35 W/kg

Ch40240/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.86 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.85 W/kg
SAR(1 g) = 0.710 W/kg; SAR(10 g) = 0.256 W/kg
Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.30 W/kg

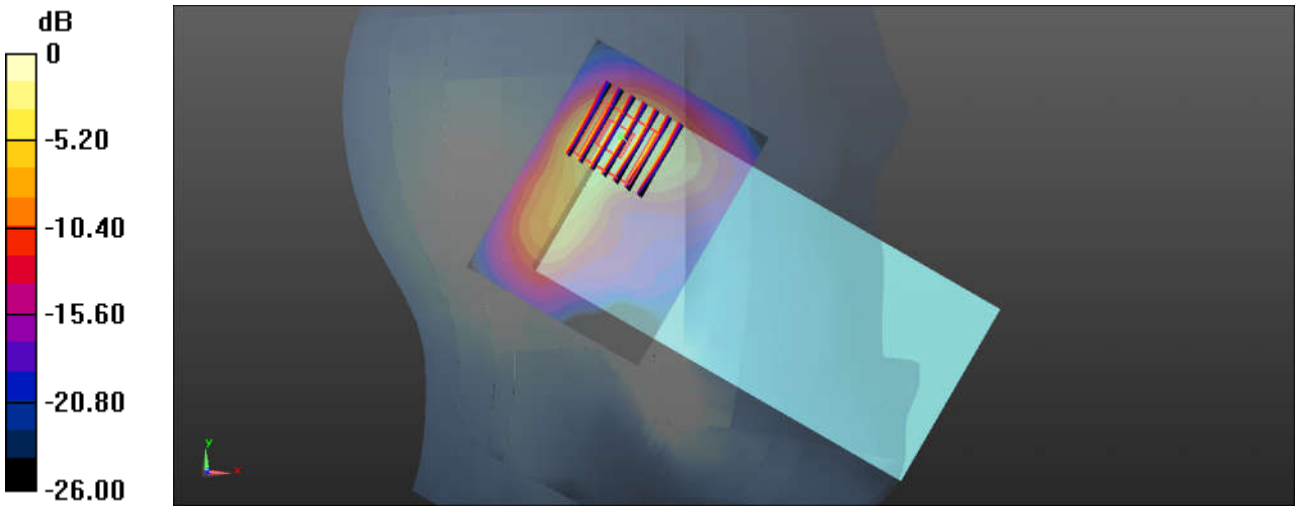
13_WLAN2.4GHz_802.11n-HT40 MCS0_Left Tilted_0mm_Battery 1_Ch9

Communication System: UID 0, 802.11n (0); Frequency: 2452 MHz;Duty Cycle: 1:1.028
Medium: HSL_2450 Medium parameters used: f = 2452 MHz; σ = 1.848 S/m; ε_r = 38.19;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(7.32, 7.32, 7.32); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM1; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch9/Area Scan (81x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.326 W/kg

Ch9/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.606 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.685 W/kg
SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.329 W/kg



0 dB = 0.329 W/kg

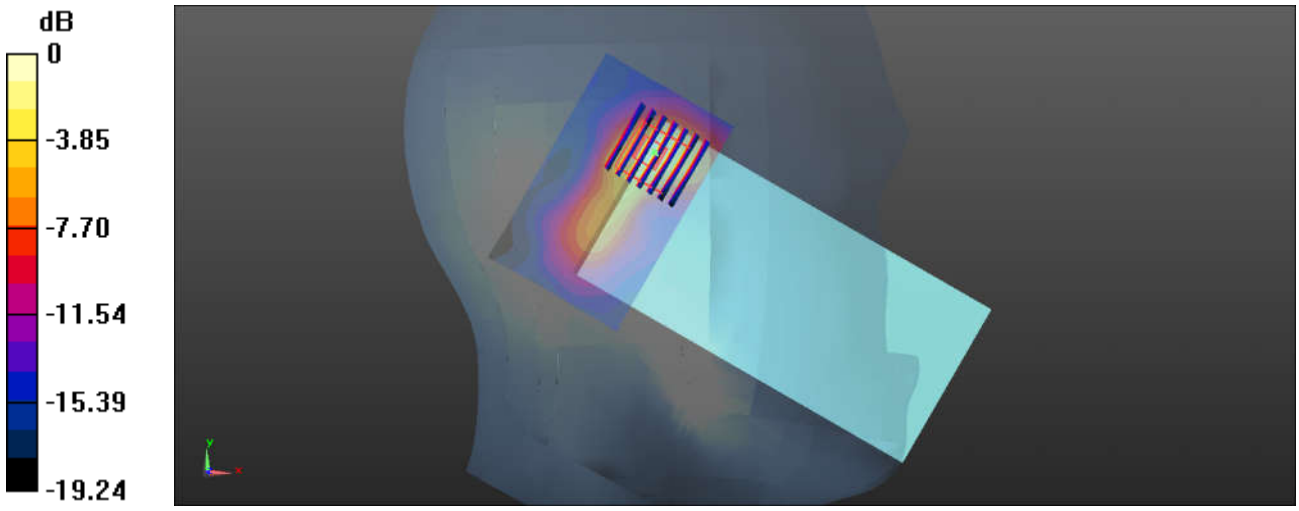
14_Bluetooth_1 Mbps_Left Tilted_0mm_Battery 1_Ch38

Communication System: UID 0, Bluetooth (0); Frequency: 2440 MHz;Duty Cycle: 1:1.30
Medium: HSL_2450 Medium parameters used: f = 2440 MHz; σ = 1.833 S/m; ε_r = 38.238; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(7.32, 7.32, 7.32); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM1; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch38/Area Scan (81x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0792 W/kg

Ch38/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.768 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.156 W/kg
SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.019 W/kg
Maximum value of SAR (measured) = 0.0755 W/kg



0 dB = 0.0755 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.23

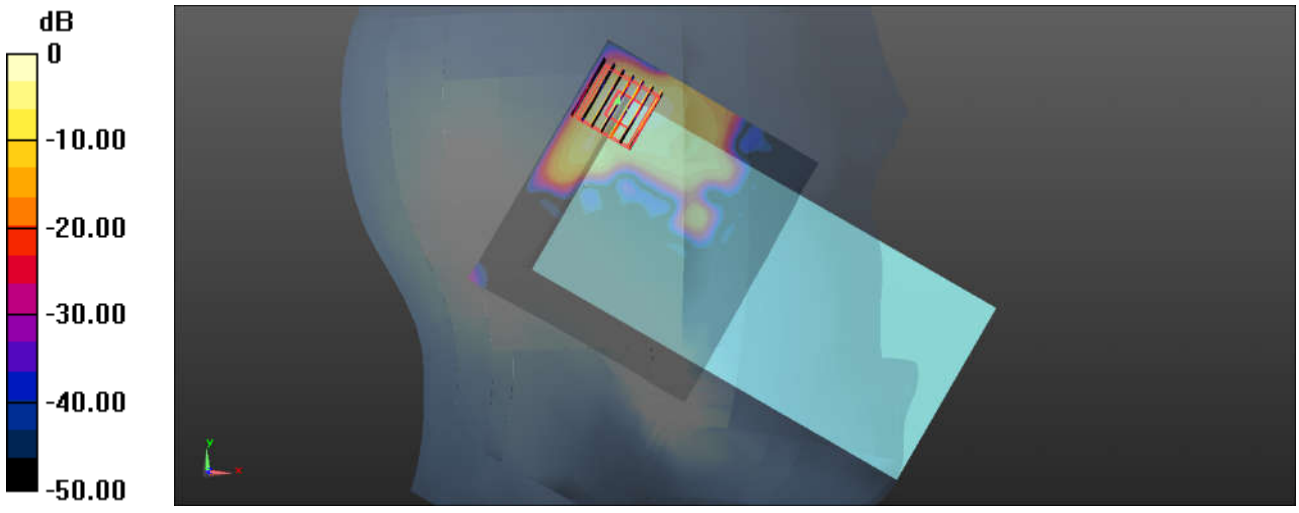
15_WLAN5.3GHz_802.11a 6Mbps_Left Tilted_0mm_Battery 1_Ch60

Communication System: UID 0, 802.11a (0); Frequency: 5300 MHz;Duty Cycle: 1:1.009
Medium: HSL_5000 Medium parameters used: f = 5300 MHz; σ = 4.837 S/m; ε_r = 35.717; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(5.23, 5.23, 5.23); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM1; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch60/Area Scan (101x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.268 W/kg

Ch60/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.5350 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.408 W/kg
SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.017 W/kg
Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.256 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.23

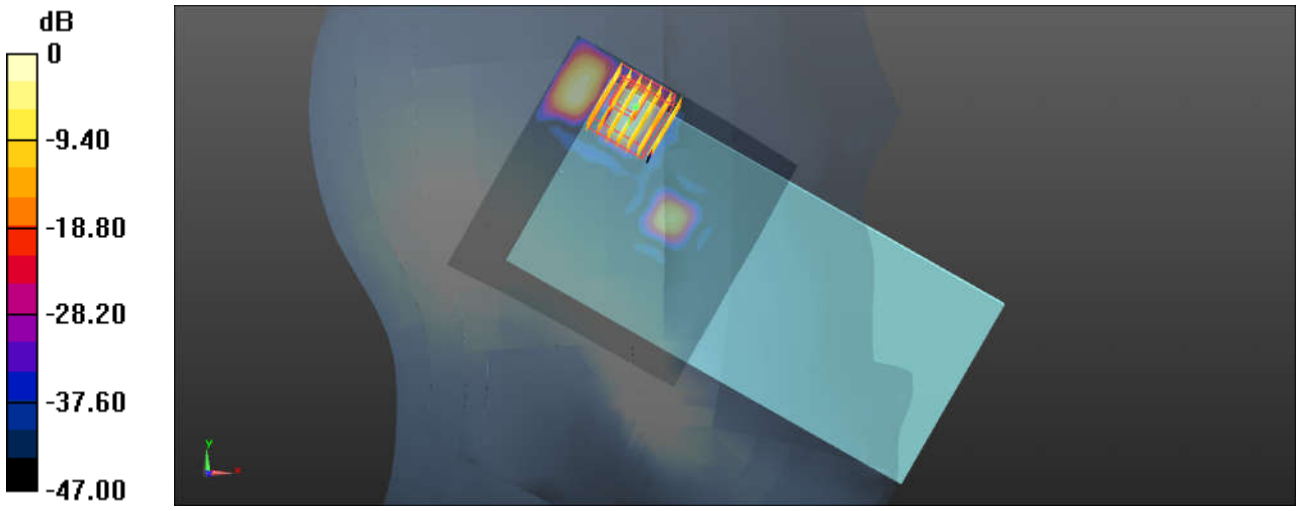
16_WLAN5.5GHz_802.11a 6Mbps_Left Cheek_0mm_Battery 2_Ch116

Communication System: UID 0, 802.11a (0); Frequency: 5580 MHz;Duty Cycle: 1:1.009
Medium: HSL_5000 Medium parameters used: f = 5580 MHz; σ = 5.121 S/m; ε_r = 35.295; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.58, 4.58, 4.58); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM1; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch116/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.105 W/kg

Ch116/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.033 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.478 W/kg
SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.00478 W/kg
Maximum value of SAR (measured) = 0.101 W/kg



0 dB = 0.101 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.23

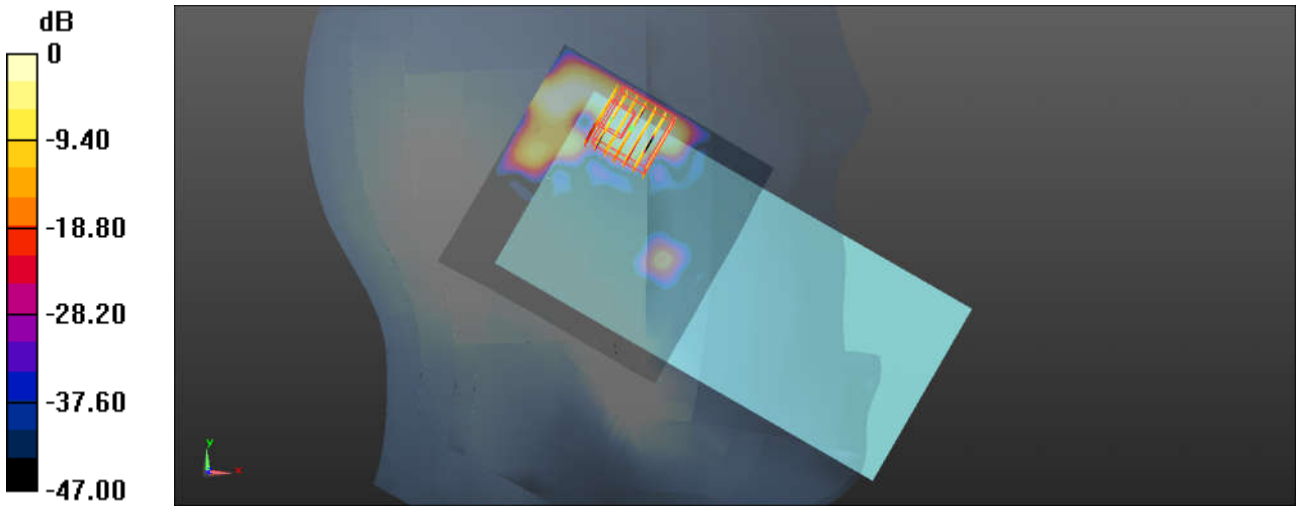
17_WLAN5.8GHz_802.11a 6Mbps_Left Cheek_0mm_Battery 2_Ch157

Communication System: UID 0, 802.11a (0); Frequency: 5785 MHz;Duty Cycle: 1:1.009
Medium: HSL_5000 Medium parameters used: f = 5785 MHz; σ = 5.338 S/m; ε_r = 34.987;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.76, 4.76, 4.76); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM1; Type: SAM; Serial: TP-1839
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch157/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.503 W/kg

Ch157/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.624 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.844 W/kg
SAR(1 g) = 0.061 W/kg; SAR(10 g) = 0.014 W/kg
Maximum value of SAR (measured) = 0.237 W/kg



0 dB = 0.237 W/kg

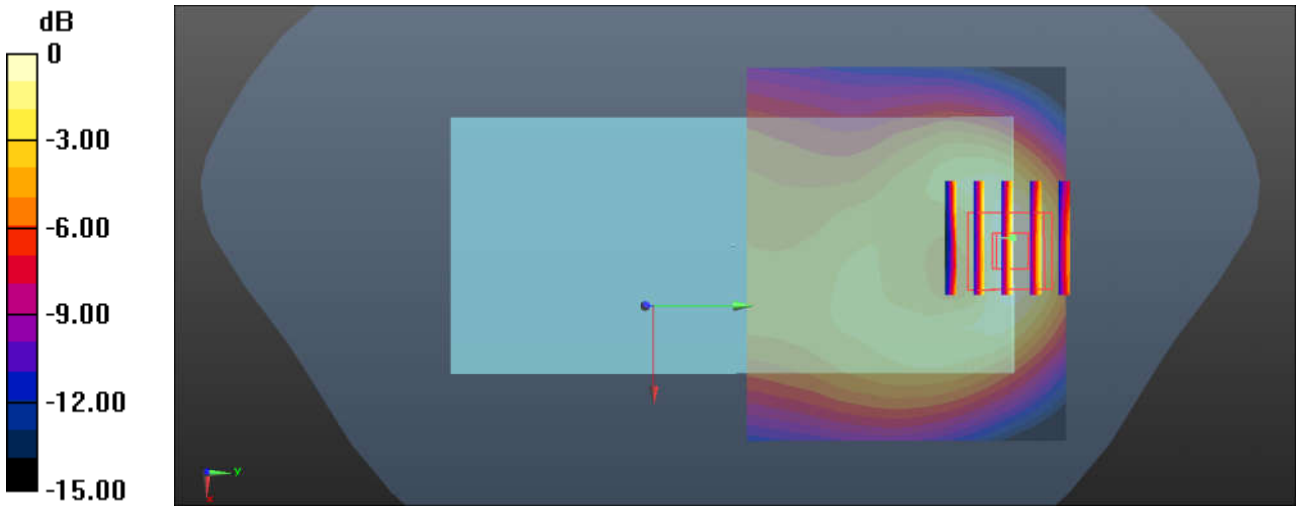
18_GSM850-UAT_GPRS 1 Tx slots_Back_10mm_Battery 1_SIM2_Ch189

Communication System: UID 0, GSM850-1UP (0); Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: MSL_850 Medium parameters used: f = 836.4 MHz; σ = 0.978 S/m; ε_r = 55.054;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.24, 6.24, 6.24); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch189/Area Scan (71x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.545 W/kg

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.906 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.759 W/kg
SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.260 W/kg
Maximum value of SAR (measured) = 0.542 W/kg



0 dB = 0.542 W/kg

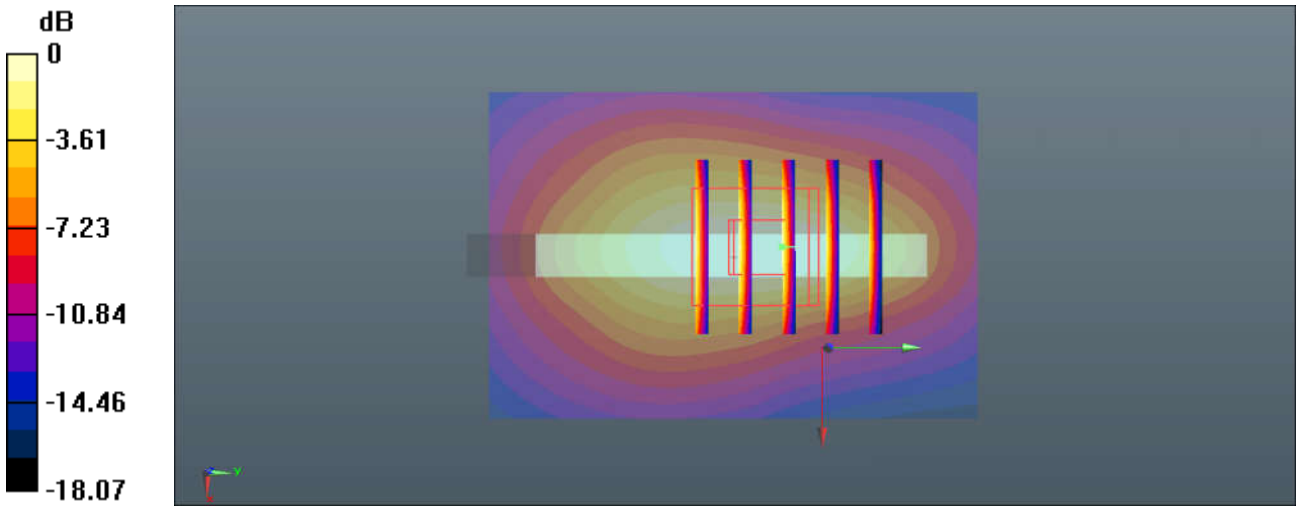
19_GSM1900-LAT_GPRS 4 Tx slots_Bottom Side_10mm_Battery 2_SIM2_Ch810

Communication System: UID 0, PCS-4UP (0); Frequency: 1909.8 MHz;Duty Cycle: 1:2.08
Medium: MSL_1900 Medium parameters used: f = 1909.8 MHz; σ = 1.574 S/m; ε_r = 52.539; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.74, 4.74, 4.74); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch810/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.549 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.258 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.753 W/kg
SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.231 W/kg
Maximum value of SAR (measured) = 0.534 W/kg



0 dB = 0.534 W/kg

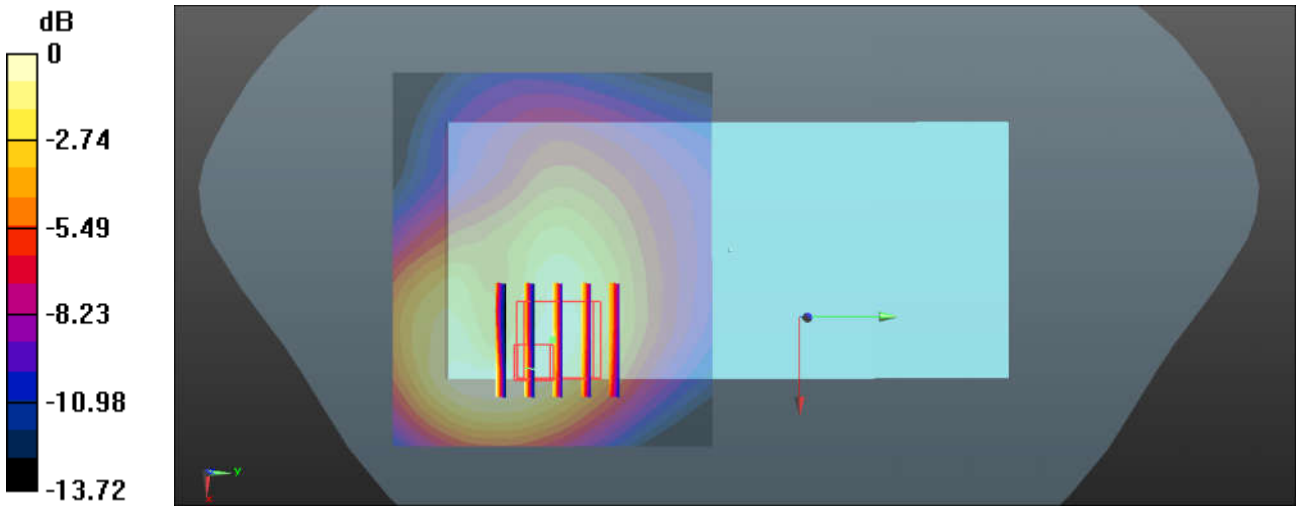
20_WCDMA Band V-LAT_RMC 12.2Kbps_Back_10mm_Battery 2_SIM2_Ch4182

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used: f = 836.4 MHz; σ = 0.978 S/m; ε_r = 55.054;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.24, 6.24, 6.24); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch4182/Area Scan (71x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.620 W/kg

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.20 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.928 W/kg
SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.322 W/kg
Maximum value of SAR (measured) = 0.646 W/kg



0 dB = 0.646 W/kg

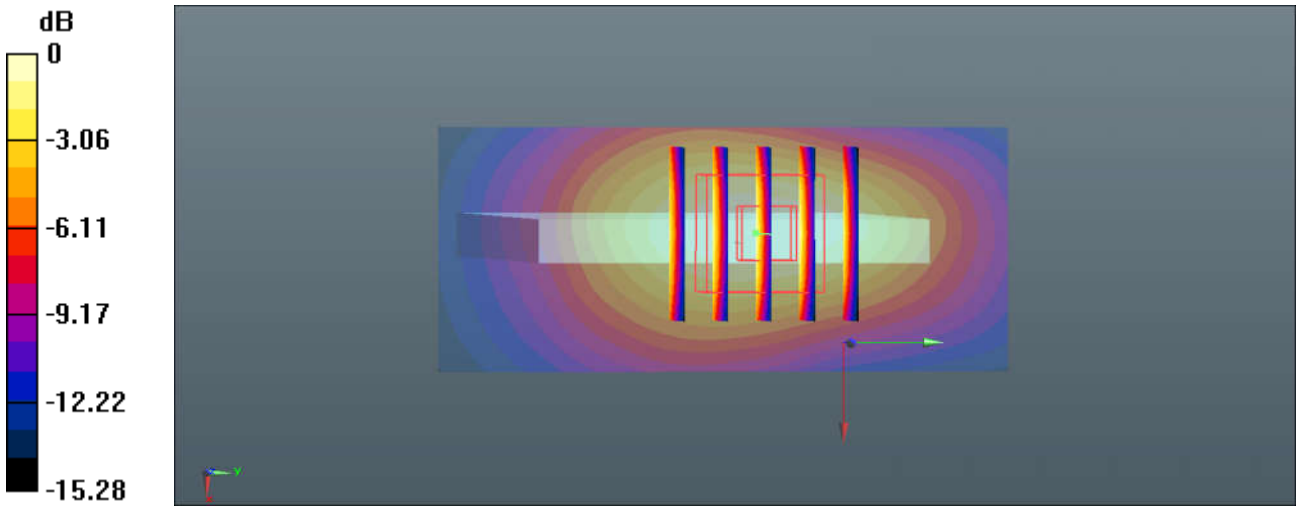
21_WCDMA Band IV-LAT_RMC 12.2Kbps_Bottom Side_10mm_Battery 2_SIM1_Ch1513

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1752.6 MHz; σ = 1.479 S/m; ε_r = 53.344; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(5.01, 5.01, 5.01); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch1513/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.990 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.05 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.798 W/kg; SAR(10 g) = 0.454 W/kg
Maximum value of SAR (measured) = 0.975 W/kg



0 dB = 0.975 W/kg

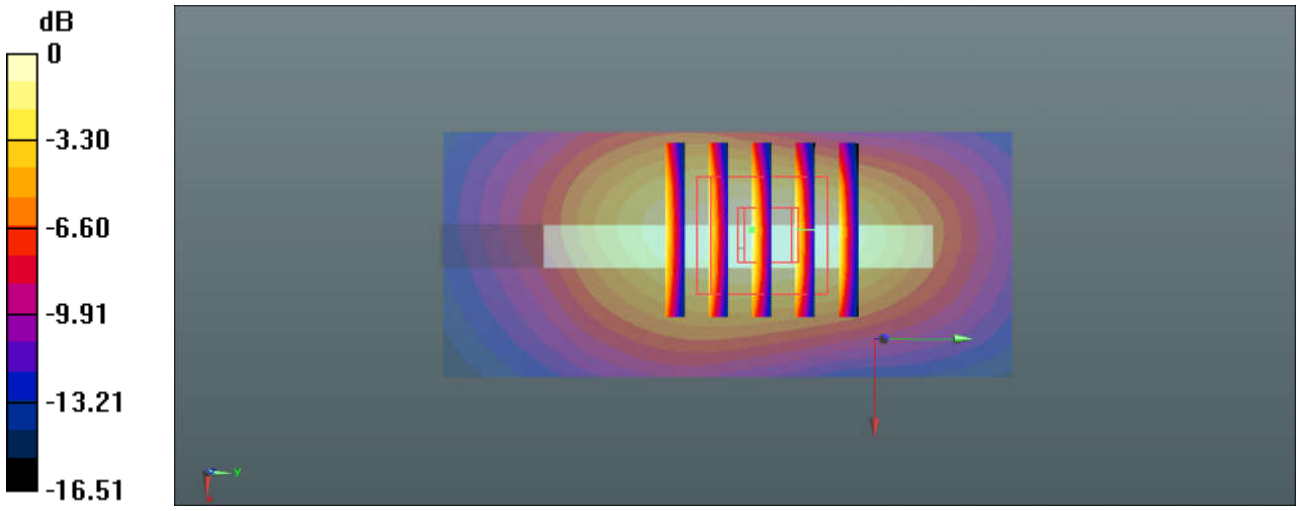
22_WCDMA Band II-LAT_RMC 12.2Kbps_Bottom Side_10mm_Battery 1_SIM1_Ch9400

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.542 S/m; ε_r = 52.633; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.74, 4.74, 4.74); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch9400/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.05 W/kg

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.48 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.839 W/kg; SAR(10 g) = 0.458 W/kg
Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg

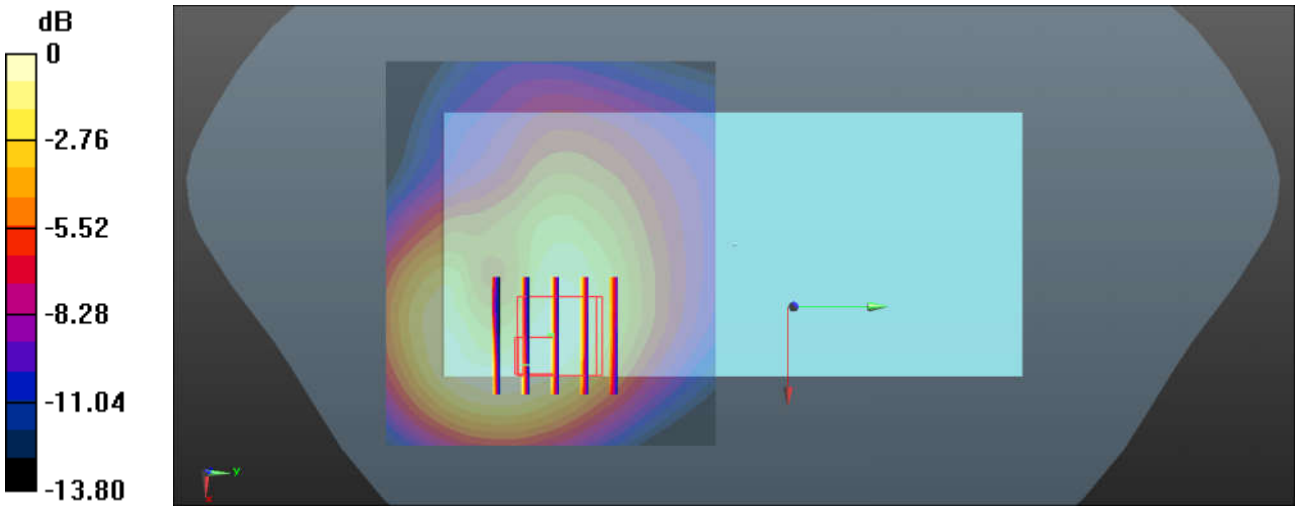
23_LTE Band 5-LAT_10M_QPSK_1RB_0Offset_Back_10mm_Battery 2_SIM1_Ch20525

Communication System: UID 0, LTE-FDD (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used: f = 836.5 MHz; σ = 0.978 S/m; ε_r = 55.053;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.24, 6.24, 6.24); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch20525/Area Scan (71x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.618 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.459 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.917 W/kg
SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.313 W/kg
Maximum value of SAR (measured) = 0.630 W/kg



0 dB = 0.630 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.13

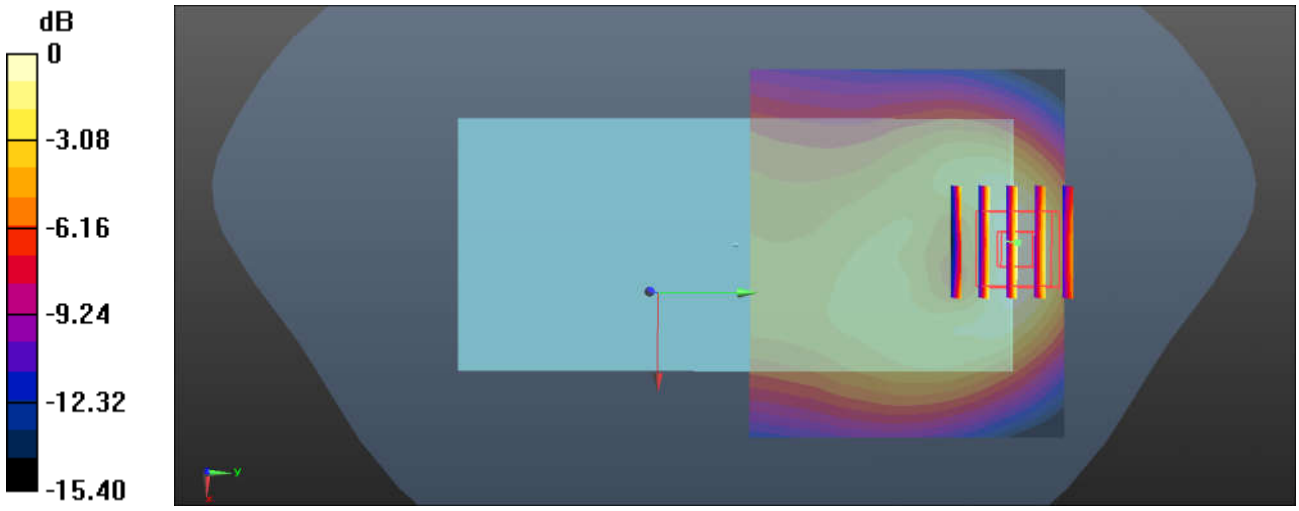
24_LTE Band 26-UAT_15M_QPSK_1RB_37Offset_Back_10mm_Battery 1_SIM1_Ch26865

Communication System: UID 0, LTE-FDD (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used: f = 831.5 MHz; σ = 0.973 S/m; ε_r = 55.104;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.24, 6.24, 6.24); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch26865/Area Scan (71x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.532 W/kg

Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.64 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.740 W/kg
SAR(1 g) = 0.438 W/kg; SAR(10 g) = 0.254 W/kg
Maximum value of SAR (measured) = 0.535 W/kg



0 dB = 0.535 W/kg

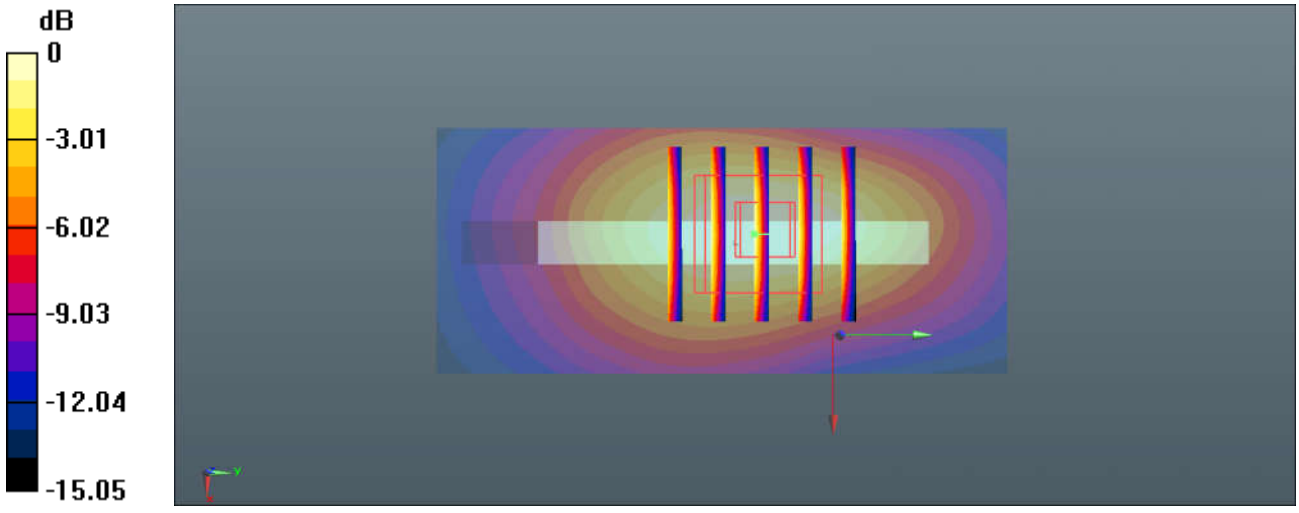
25_LTE Band 4-LAT_20M_QPSK_1RB_0Offset_Bottom Side_10mm_Battery2_SIM1_Ch20175

Communication System: UID 0, LTE-FDD (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1732.5 MHz; σ = 1.457 S/m; ε_r = 53.417;ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(5.01, 5.01, 5.01); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch20175/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.987 W/kg

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.22 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.802 W/kg; SAR(10 g) = 0.459 W/kg
Maximum value of SAR (measured) = 0.975 W/kg



0 dB = 0.975 W/kg

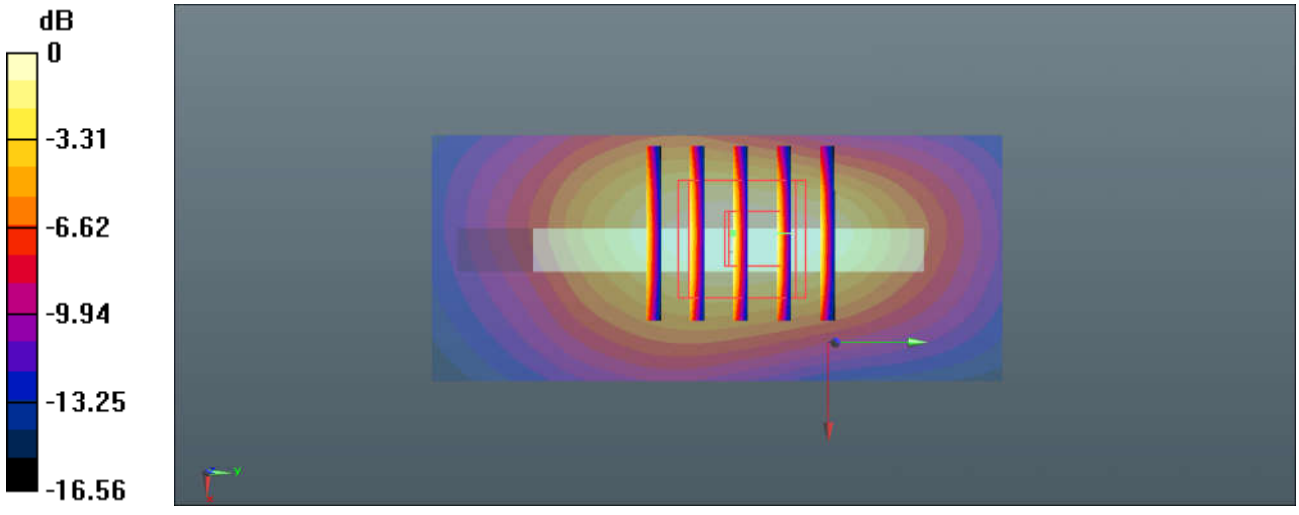
26_LTE Band 2-LAT_20M_QPSK_1RB_0Offset_Bottom Side_10mm_Battery1_SIM1_Ch19100

Communication System: UID 0, LTE-FDD (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.564 S/m; ε_r = 52.571;
ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.74, 4.74, 4.74); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch19100/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.03 W/kg

Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.79 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.820 W/kg; SAR(10 g) = 0.448 W/kg
Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg

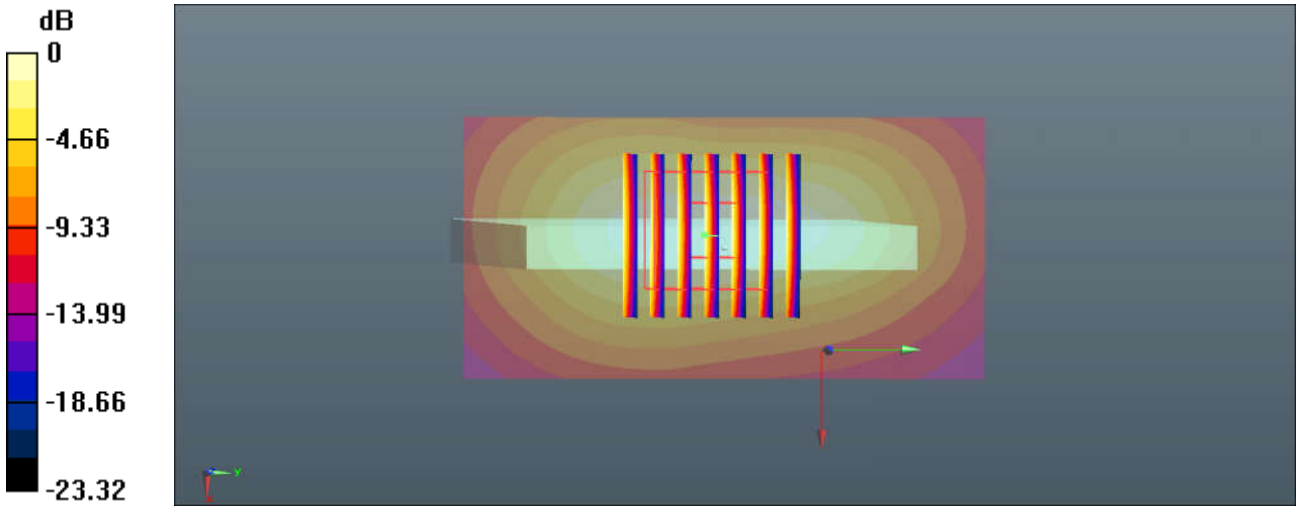
27_LTE Band 7-LAT_20M_QPSK_100RB_0Offset_Bottom Side_10mm_Battery1_SIM1_Ch21100

Communication System: UID 0, LTE-FDD (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: MSL_2600 Medium parameters used: f = 2535 MHz; σ = 2.124 S/m; ε_r = 51.959;
ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.28, 4.28, 4.28); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch21100/Area Scan (41x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.741 W/kg

Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.521 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.277 W/kg
Maximum value of SAR (measured) = 0.745 W/kg



0 dB = 0.745 W/kg

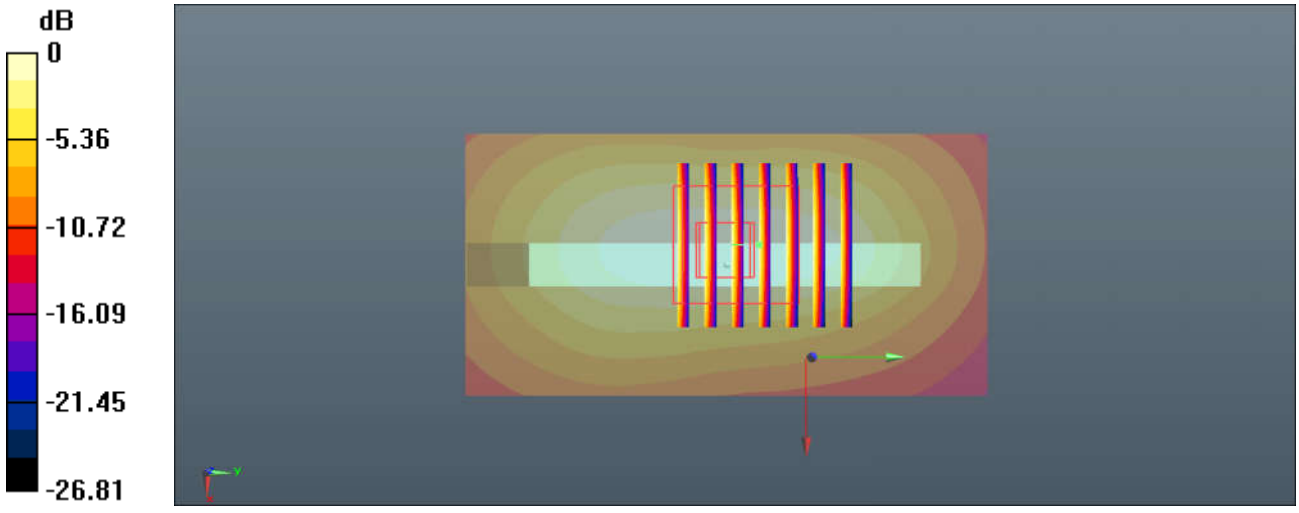
28_LTE Band 38-LAT_20M_QPSK_1RB_99Offset_Bottom Side_10mm_Battery2_SIM2_Ch38000

Communication System: UID 0, LTE-TDD (0); Frequency: 2595 MHz;Duty Cycle: 1:1.59
Medium: MSL_2600 Medium parameters used: f = 2595 MHz; σ = 2.21 S/m; ε_r = 51.724;
ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.28, 4.28, 4.28); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch38000/Area Scan (41x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.637 W/kg

Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.719 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.231 W/kg
Maximum value of SAR (measured) = 0.638 W/kg



0 dB = 0.638 W/kg

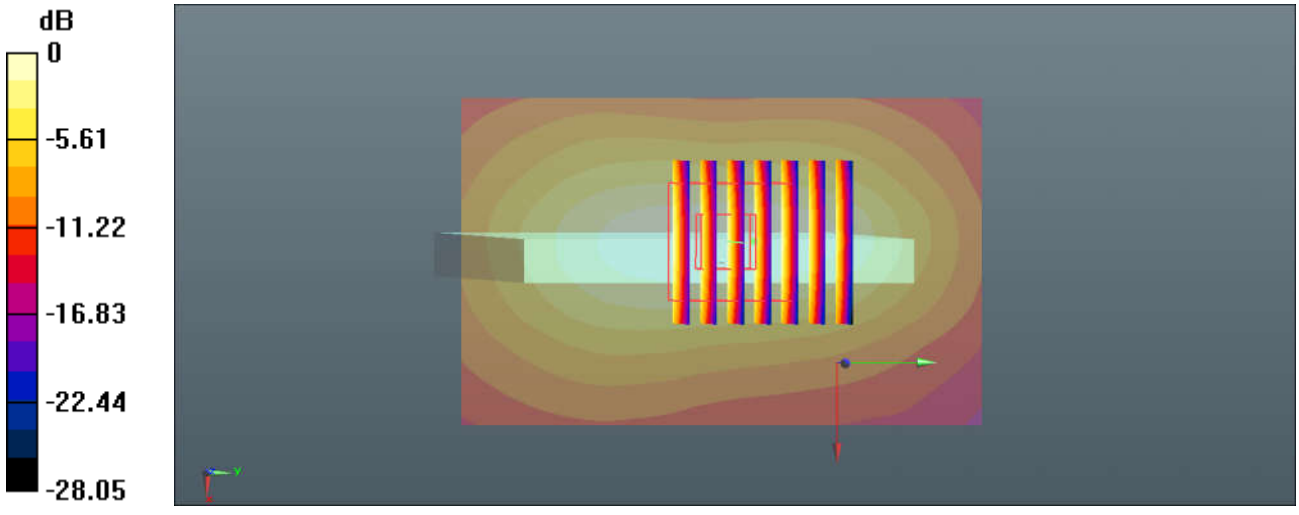
29_LTE Band 41-LAT_20M_QPSK_1RB_99Offset_Bottom Side_10mm_Battery2_SIM2_Ch40840

Communication System: UID 0, LTE-TDD (0); Frequency: 2615 MHz;Duty Cycle: 1:1.59
Medium: MSL_2600 Medium parameters used: f = 2615 MHz; σ = 2.237 S/m; ε_r = 51.65;
ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.28, 4.28, 4.28); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch40840/Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.659 W/kg

Ch40840/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.704 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.236 W/kg
Maximum value of SAR (measured) = 0.659 W/kg



0 dB = 0.659 W/kg

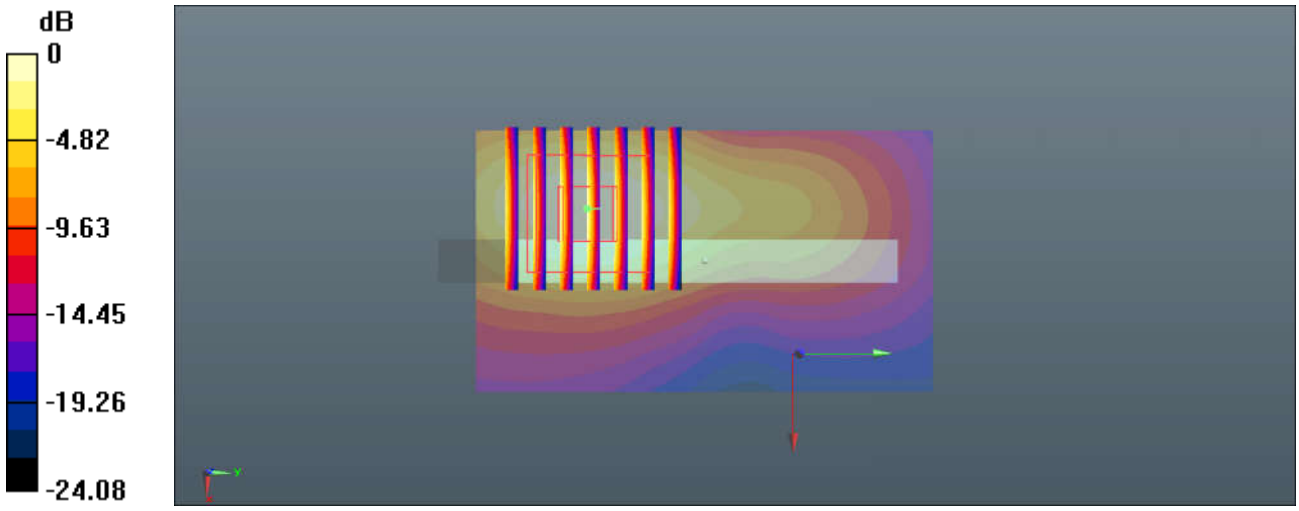
30_WLAN2.4GHz_802.11b 5.5Mbps_Top Side_10mm_Battery 1_Ch6

Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz;Duty Cycle: 1:1.011
Medium: MSL_2450 Medium parameters used: f = 2437 MHz; σ = 1.99 S/m; ε_r = 53.49;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(7.54, 7.54, 7.54); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch6/Area Scan (41x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.584 W/kg

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.034 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.879 W/kg
SAR(1 g) = 0.432 W/kg; SAR(10 g) = 0.202 W/kg
Maximum value of SAR (measured) = 0.555 W/kg



0 dB = 0.555 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.24

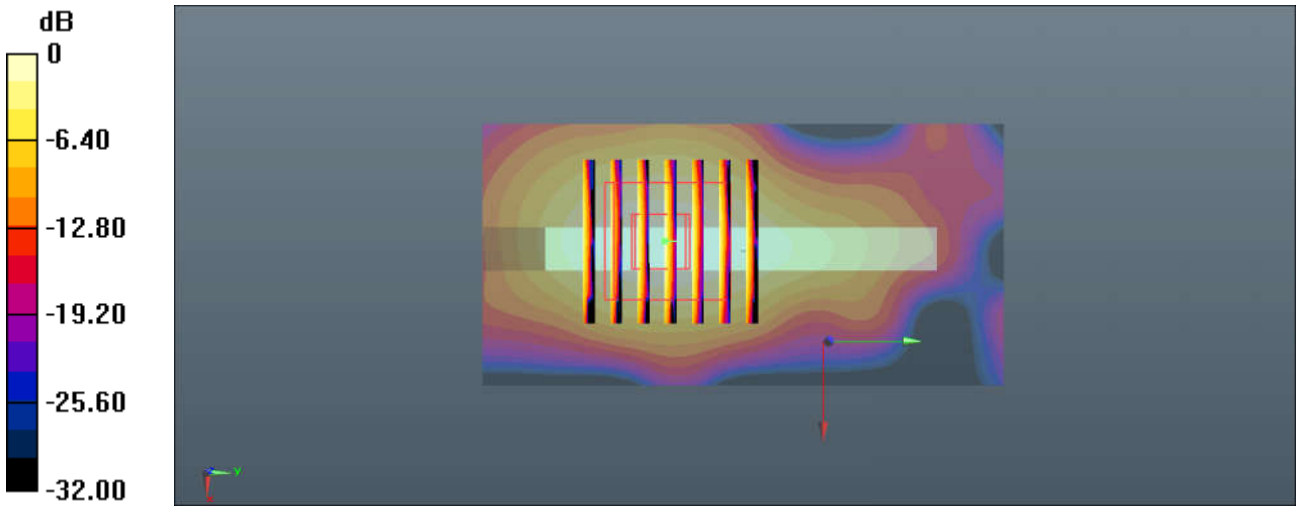
31_Bluetooth_1 Mbps_Top Side_10mm_Battery 1_Ch22

Communication System: UID 0, Bluetooth (0); Frequency: 2424 MHz;Duty Cycle: 1:1.30
Medium: MSL_2450 Medium parameters used: f = 2424 MHz; σ = 1.972 S/m; ε_r = 53.541; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(7.54, 7.54, 7.54); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch22/Area Scan (41x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0575 W/kg

Ch22/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.548 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.0910 W/kg
SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.020 W/kg
Maximum value of SAR (measured) = 0.0571 W/kg



0 dB = 0.0571 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.23

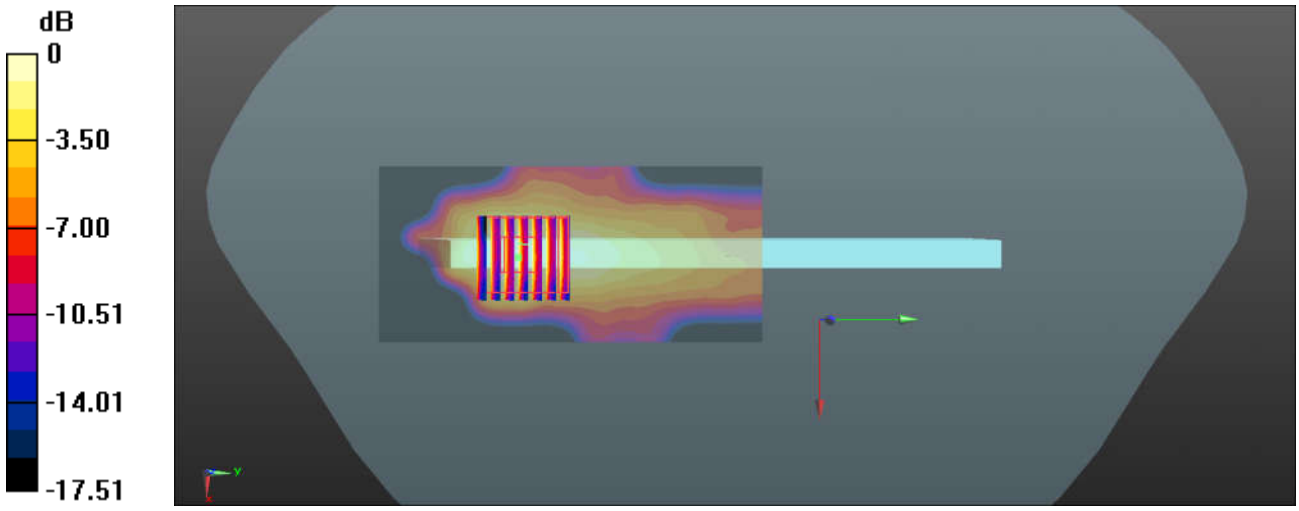
32_WLAN5.2GHz_802.11a 6Mbps_Right Side_10mm_Battery 2_Ch48

Communication System: UID 0, 802.11a (0); Frequency: 5240 MHz;Duty Cycle: 1:1.009
Medium: MSL_5000 Medium parameters used: f = 5240 MHz; σ = 5.439 S/m; ε_r = 48.9;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.67, 4.67, 4.67); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch48/Area Scan (111x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.533 W/kg

Ch48/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.460 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.793 W/kg
SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.107 W/kg
Maximum value of SAR (measured) = 0.544 W/kg



0 dB = 0.544 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.23

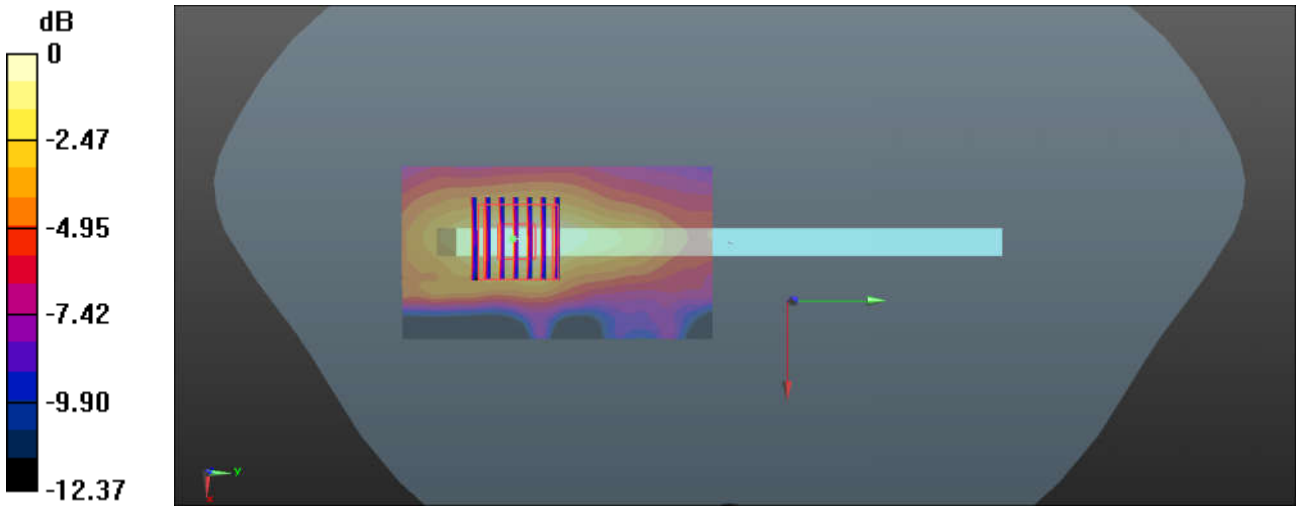
33_WLAN5.8GHz_802.11a 6Mbps_Right Side_10mm_Battery 1_Ch157

Communication System: UID 0, 802.11a (0); Frequency: 5785 MHz;Duty Cycle: 1:1.009
Medium: MSL_5000 Medium parameters used: f = 5785 MHz; σ = 6.168 S/m; ε_r = 48.017;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.16, 4.16, 4.16); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch157/Area Scan (91x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.466 W/kg

Ch157/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.596 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.695 W/kg
SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.096 W/kg
Maximum value of SAR (measured) = 0.468 W/kg



0 dB = 0.468 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.13

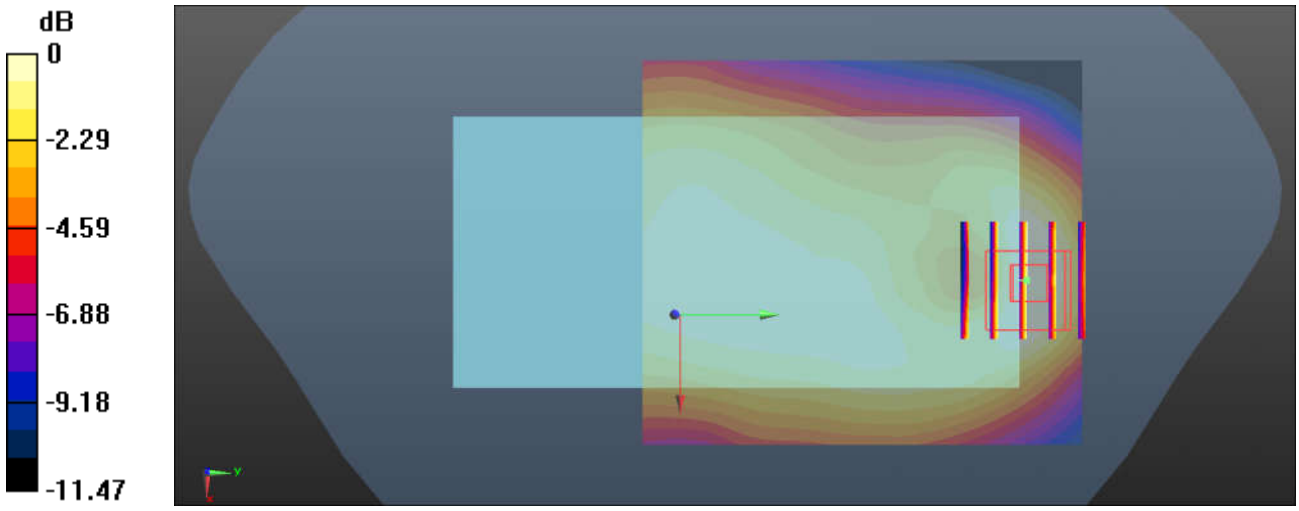
34_GSM850-UAT_GPRS 1 Tx slot_Back_15mm_Battery 2_SIM1_Ch189

Communication System: UID 0, GSM850 (0); Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: MSL_850 Medium parameters used: f = 836.4 MHz; σ = 0.978 S/m; ε_r = 55.054;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.24, 6.24, 6.24); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch189/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.221 W/kg

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.32 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.263 W/kg
SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.118 W/kg
Maximum value of SAR (measured) = 0.210 W/kg



0 dB = 0.210 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.14

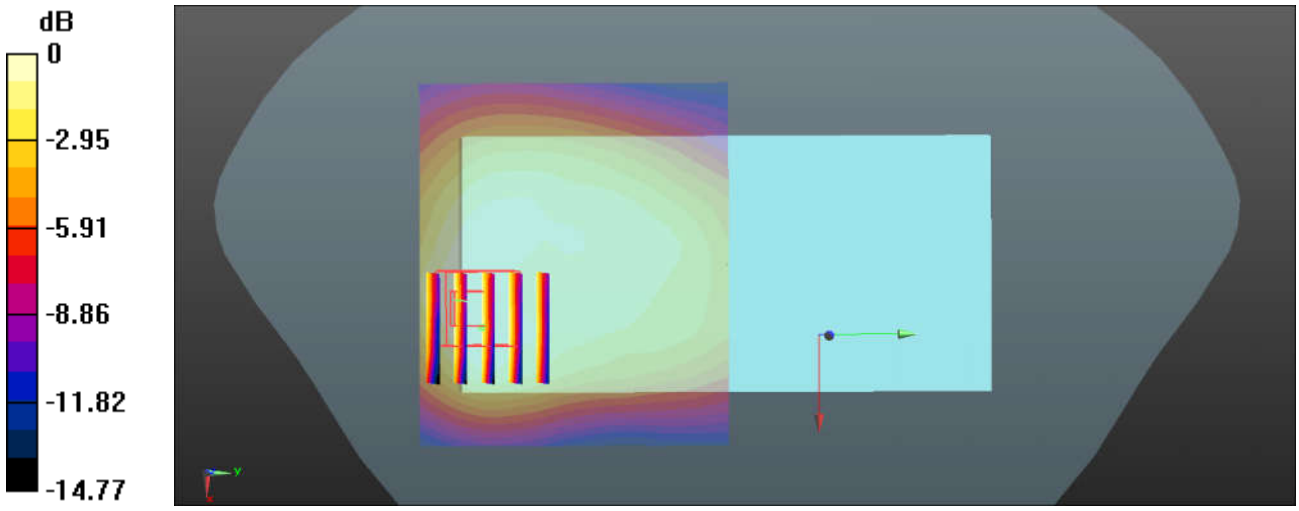
35_GSM 1900-LAT_GPRS(4Tx slot)_Back_15mm_Battery 2_SIM2_Ch810

Communication System: UID 0, PCS (0); Frequency: 1909.8 MHz;Duty Cycle: 1:2.08
Medium: MSL_1900 Medium parameters used: f = 1919.8 MHz; σ = 1.574 S/m; ε_r = 52.539; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.74, 4.74, 4.74); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch810/Area Scan (71x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.139 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.903 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.174 W/kg
SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.070 W/kg
Maximum value of SAR (measured) = 0.129 W/kg



0 dB = 0.129 W/kg

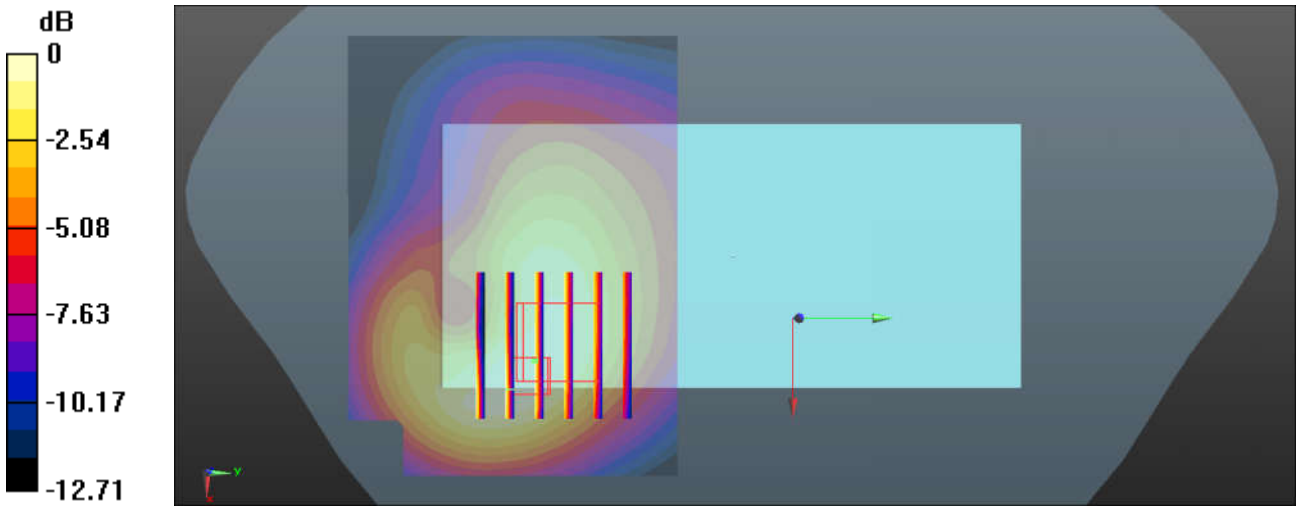
36_WCDMA Band V-LAT_RMC 12.2Kbps_Back_15mm_Battery 2_SIM2_Ch4182

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used: f = 836.4 MHz; σ = 0.978 S/m; ε_r = 55.054;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.24, 6.24, 6.24); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch4182/Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.402 W/kg

Ch4182/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.748 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.499 W/kg
SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.189 W/kg
Maximum value of SAR (measured) = 0.417 W/kg



0 dB = 0.417 W/kg

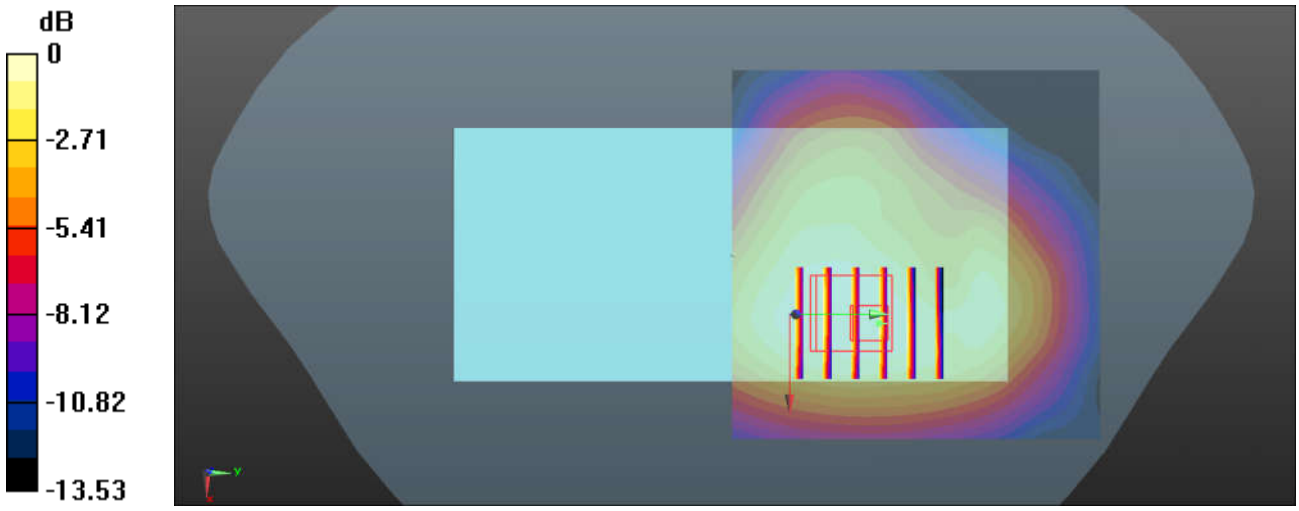
37_WCDMA Band IV-UAT_RMC 12.2Kbps_Back_15mm_Battery 2_SIM2_Ch1413

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1732.6 MHz; σ = 1.457 S/m; ε_r = 53.417; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(5.01, 5.01, 5.01); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch1413/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.293 W/kg

Ch1413/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.764 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.327 W/kg
SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.147 W/kg
Maximum value of SAR (measured) = 0.286 W/kg



0 dB = 0.286 W/kg

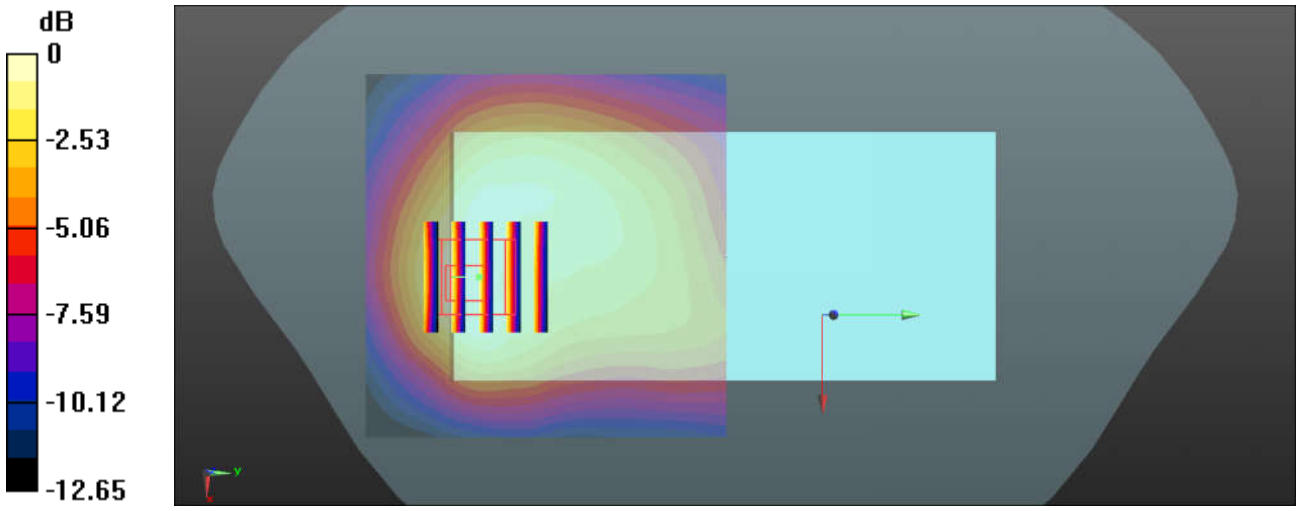
38_WCDMA Band II-LAT_RMC 12.2Kbps_Back_15mm_Battery 2_SIM2_Ch9262

Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1852.4 MHz; σ = 1.513 S/m; ε_r = 52.749;
ρ =1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.74, 4.74, 4.74); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch9262/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.359 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.449 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.408 W/kg
SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.155 W/kg
Maximum value of SAR (measured) = 0.345 W/kg



0 dB = 0.345 W/kg

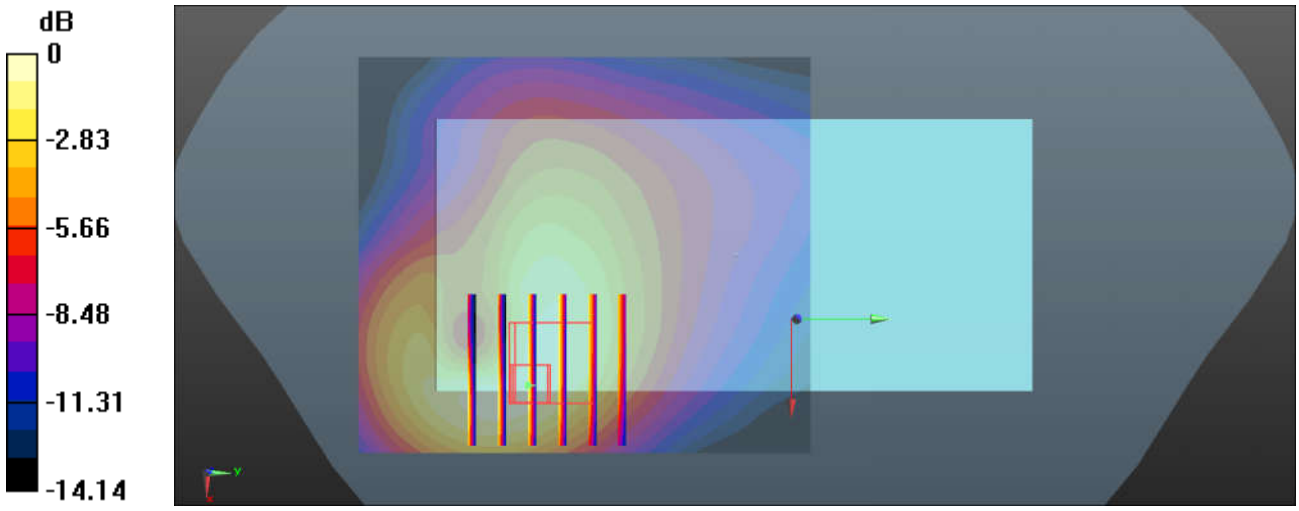
39_LTE Band 5-LAT_10M_QPSK_1RB_0Offset_Back_15mm_Battery 2_SIM2_Ch20525

Communication System: UID 0, LTE-FDD (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used: f = 836.5 MHz; σ = 0.978 S/m; ε_r = 55.053; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.24, 6.24, 6.24); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch20525/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.394 W/kg

Ch20525/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.084 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.495 W/kg
SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.183 W/kg
Maximum value of SAR (measured) = 0.412 W/kg



0 dB = 0.412 W/kg

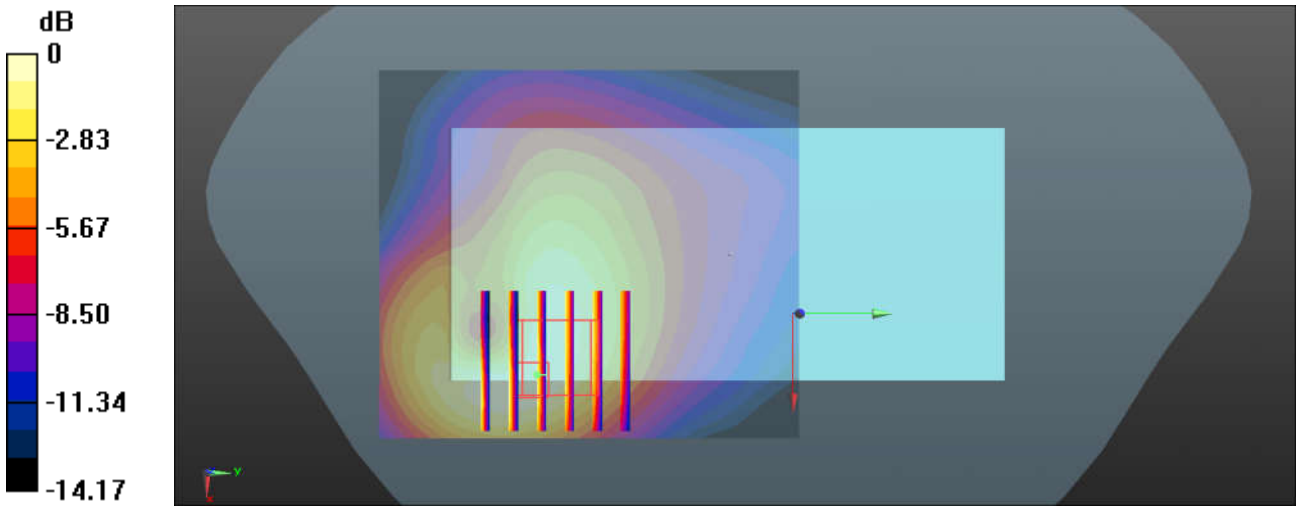
40_LTE Band 26-LAT_15M_QPSK_1RB_37Offset_Back_15mm_Battery 2_SIM2_Ch26865

Communication System: UID 0, LTE-FDD (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used: f = 831.5 MHz; σ = 0.973 S/m; ε_r = 55.104; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(6.24, 6.24, 6.24); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch26865/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.353 W/kg

Ch26865/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.573 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.423 W/kg
SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.156 W/kg
Maximum value of SAR (measured) = 0.350 W/kg



0 dB = 0.350 W/kg

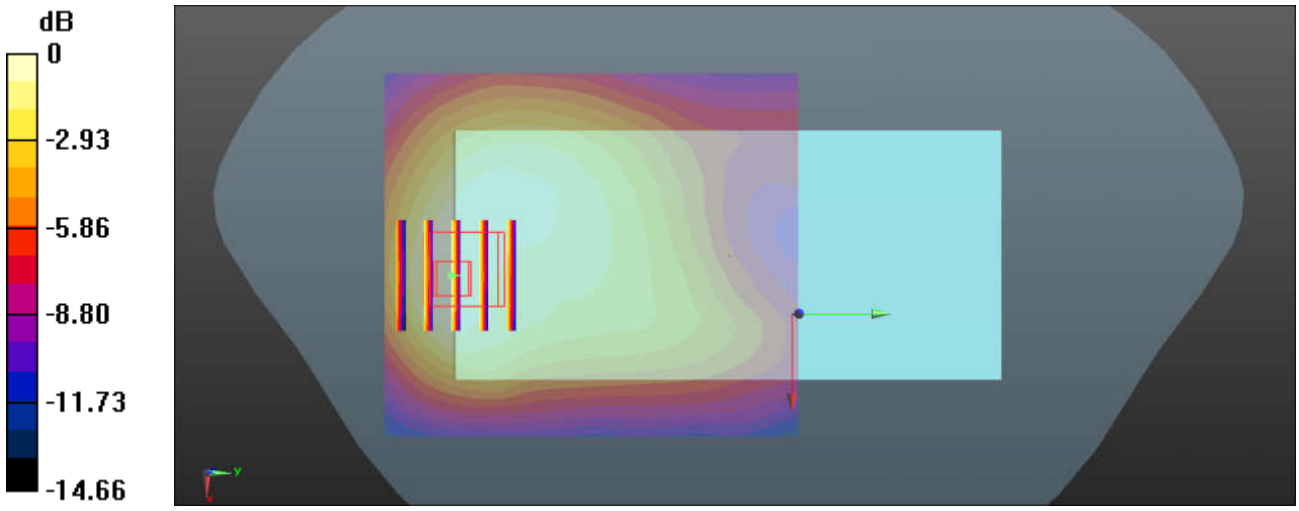
41_LTE Band 4-LAT_20M_QPSK_1RB_0Offset_Back_15mm_Battery 2_SIM1_Ch20175

Communication System: UID 0, LTE-FDD (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1732.5 MHz; σ = 1.457 S/m; ε_r = 53.417; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(5.01, 5.01, 5.01); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch20175/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.357 W/kg

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.507 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.398 W/kg
SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.162 W/kg
Maximum value of SAR (measured) = 0.347 W/kg



0 dB = 0.347 W/kg

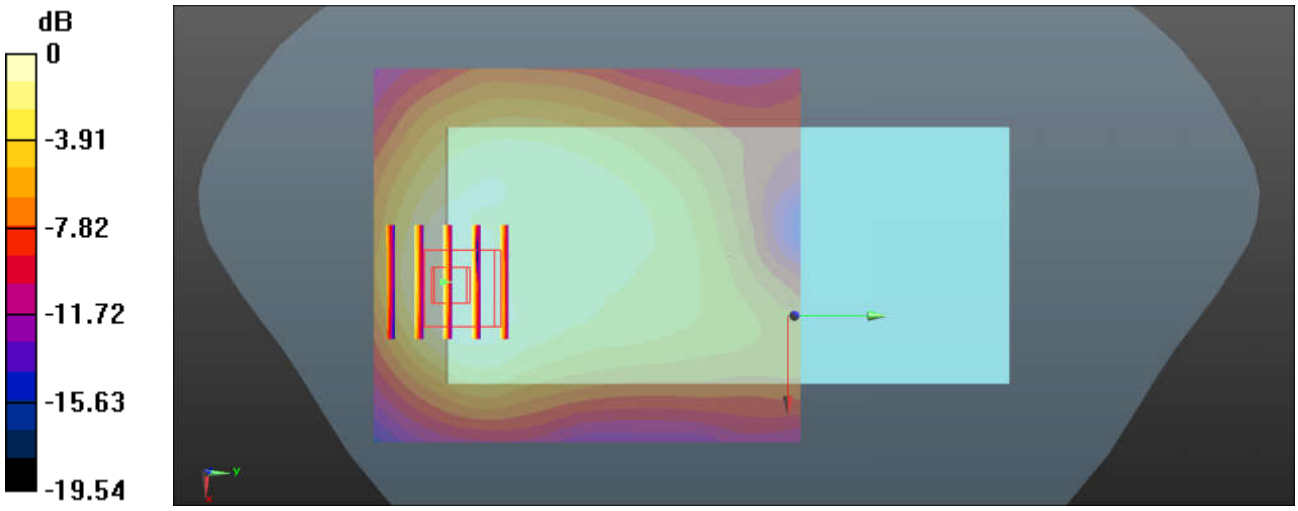
42_LTE Band 2-LAT_20M_QPSK_1RB_0Offset_Back_15mm_Battery 2_SIM1_Ch19100

Communication System: UID 0, LTE-FDD (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.564 S/m; ε_r = 52.571; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.74, 4.74, 4.74); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch19100/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.372 W/kg

Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.308 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.419 W/kg
SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.153 W/kg
Maximum value of SAR (measured) = 0.359 W/kg



0 dB = 0.359 W/kg

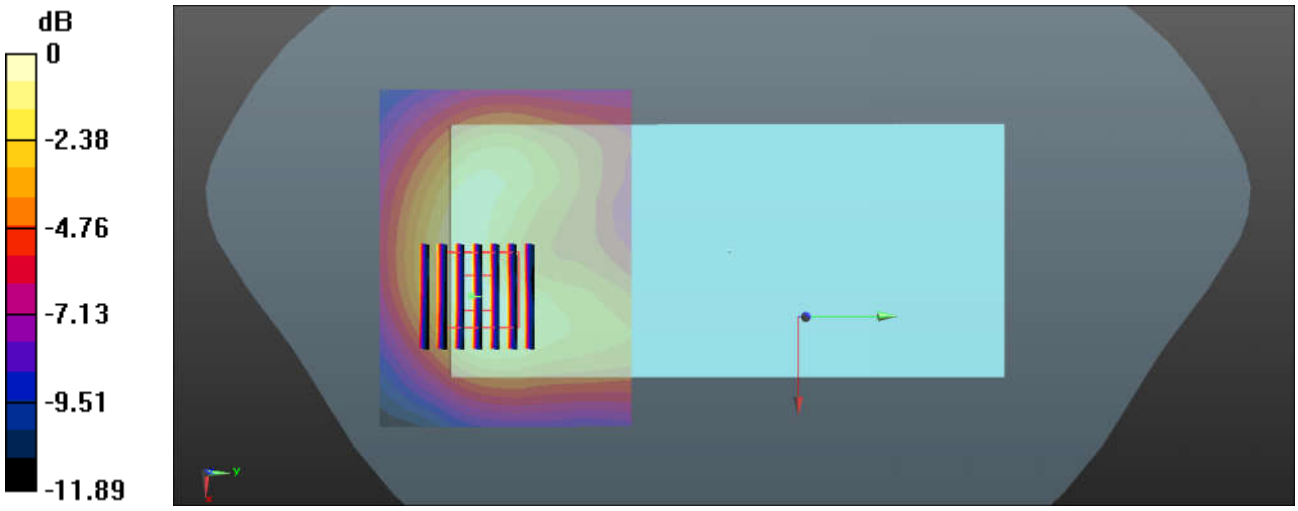
43_LTE Band 7-LAT_20M_QPSK_1RB_49Offset_Back_15mm_Battery 2_SIM2_Ch21100

Communication System: UID 0, LTE-FDD (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: MSL_2600 Medium parameters used: f = 2535 MHz; σ = 2.124 S/m; ε_r = 51.959; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.28, 4.28, 4.28); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch21100/Area Scan (81x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.306 W/kg

Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.665 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.488 W/kg
SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.136 W/kg
Maximum value of SAR (measured) = 0.316 W/kg



0 dB = 0.316 W/kg

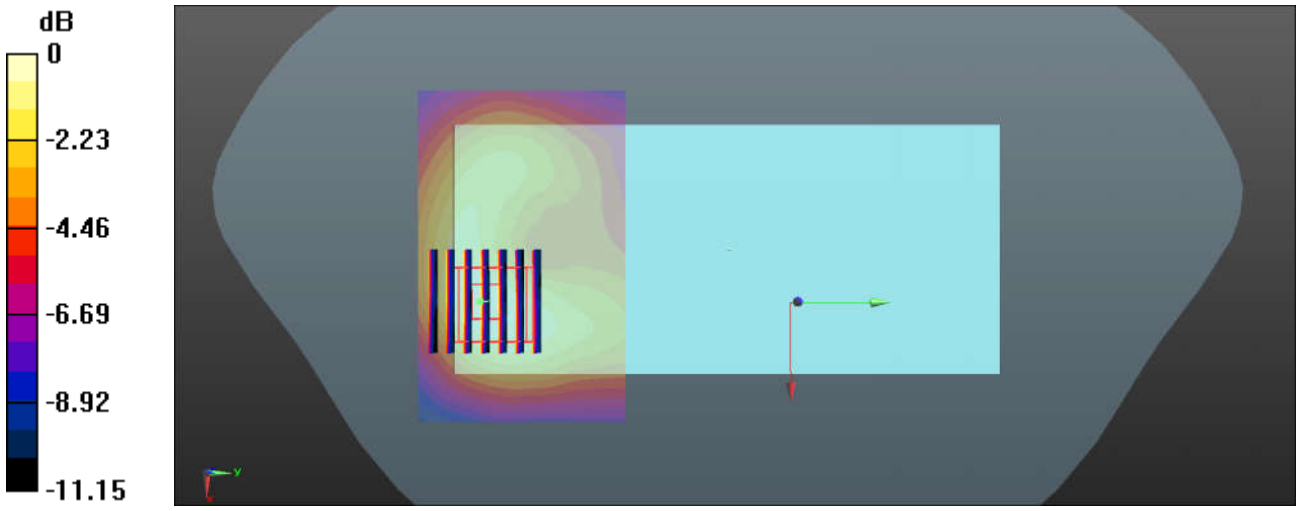
44_LTE Band 38-LAT_20M_QPSK_1RB_99Offset_Back_15mm_Battery 2_SIM2_Ch38000

Communication System: UID 0, LTE-TDD (0); Frequency: 2595 MHz;Duty Cycle: 1:1.59
Medium: MSL_2600 Medium parameters used: f = 2595 MHz; σ = 2.21 S/m; ε_r = 51.724;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.28, 4.28, 4.28); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch38000/Area Scan (81x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.263 W/kg

Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.070 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.405 W/kg
SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.114 W/kg
Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.257 W/kg

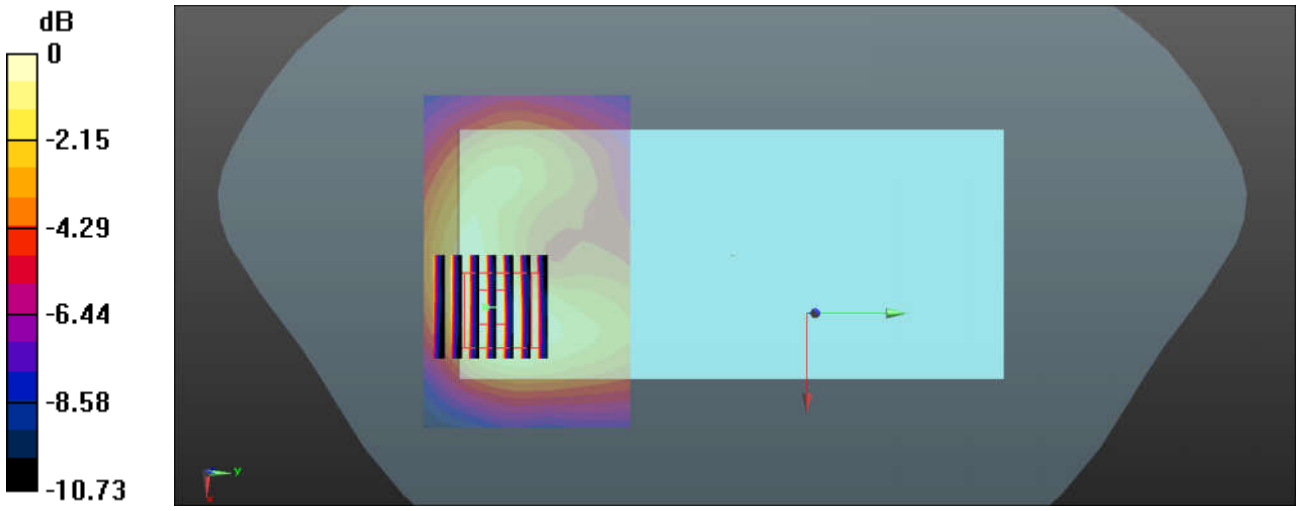
45_LTE Band 41-LAT_20M_QPSK_1RB_99Offset_Back_15mm_Battery 2_SIM2_Ch40840

Communication System: UID 0, LTE-TDD (0); Frequency: 2615 MHz;Duty Cycle: 1:1.59
Medium: MSL_2600 Medium parameters used: f = 2615 MHz; σ = 2.237 S/m; ε_r = 51.65;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3293; ConvF(4.28, 4.28, 4.28); Calibrated: 2018.10.25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2019.1.25
- Phantom: SAM2; Type: SAM; Serial: TP-1754
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch40840/Area Scan (81x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.258 W/kg

Ch40840/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.979 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.404 W/kg
SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.112 W/kg
Maximum value of SAR (measured) = 0.255 W/kg



0 dB = 0.255 W/kg

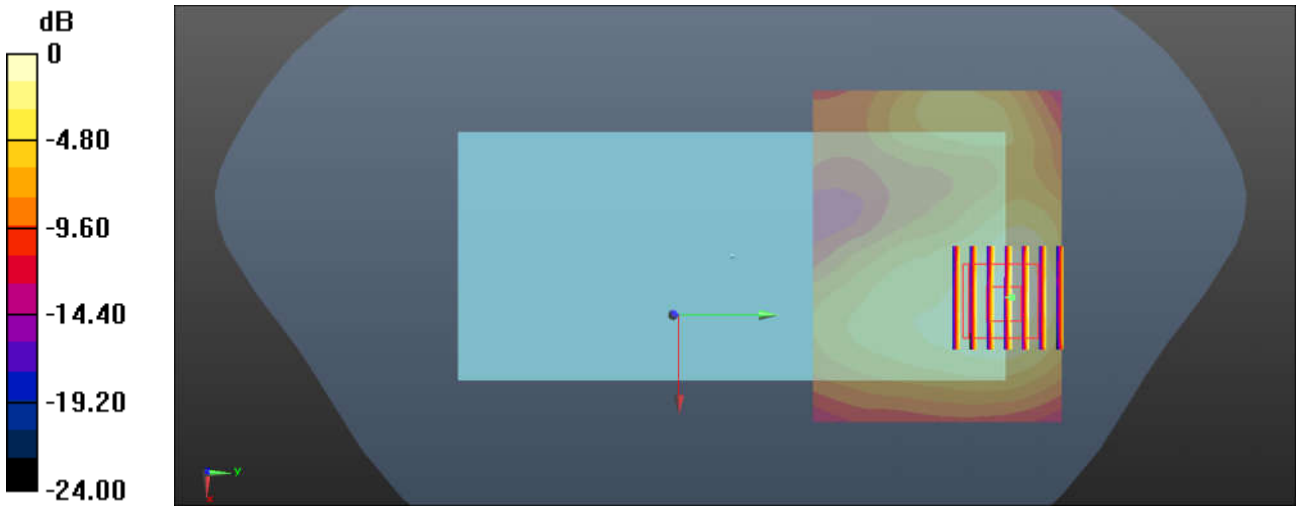
46_WLAN2.4GHz_802.11b 5.5Mbps_Back_15mm_Battery 1_Ch6

Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz;Duty Cycle: 1:1.011
Medium: MSL_2450 Medium parameters used: f = 2437 MHz; σ = 1.99 S/m; ε_r = 53.49;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(7.54, 7.54, 7.54); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch6/Area Scan (81x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.116 W/kg

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.023 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.211 W/kg
SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.057 W/kg
Maximum value of SAR (measured) = 0.136 W/kg



0 dB = 0.136 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.24

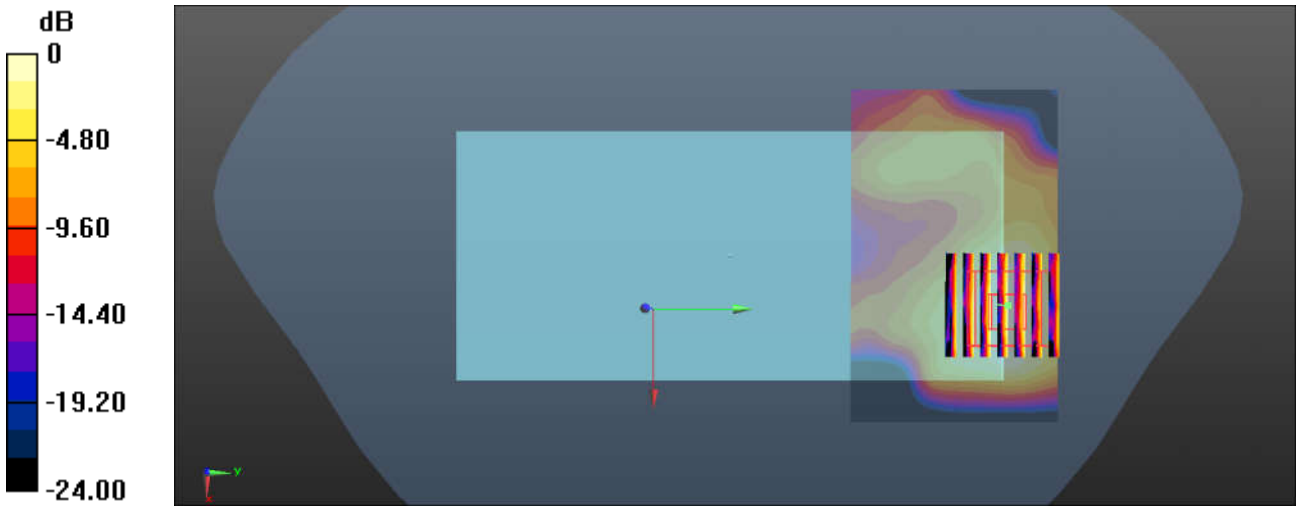
47_Bluetooth_1 Mbps_Back_15mm_Battery 1_Ch22

Communication System: UID 0, Bluetooth (0); Frequency: 2424 MHz;Duty Cycle: 1:1.30
Medium: MSL_2450 Medium parameters used: f = 2424 MHz; σ = 1.972 S/m; ε_r = 53.541; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(7.54, 7.54, 7.54); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch22/Area Scan (81x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0131 W/kg

Ch22/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.5430 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.0220 W/kg
SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.005 W/kg
Maximum value of SAR (measured) = 0.0137 W/kg



0 dB = 0.0137 W/kg

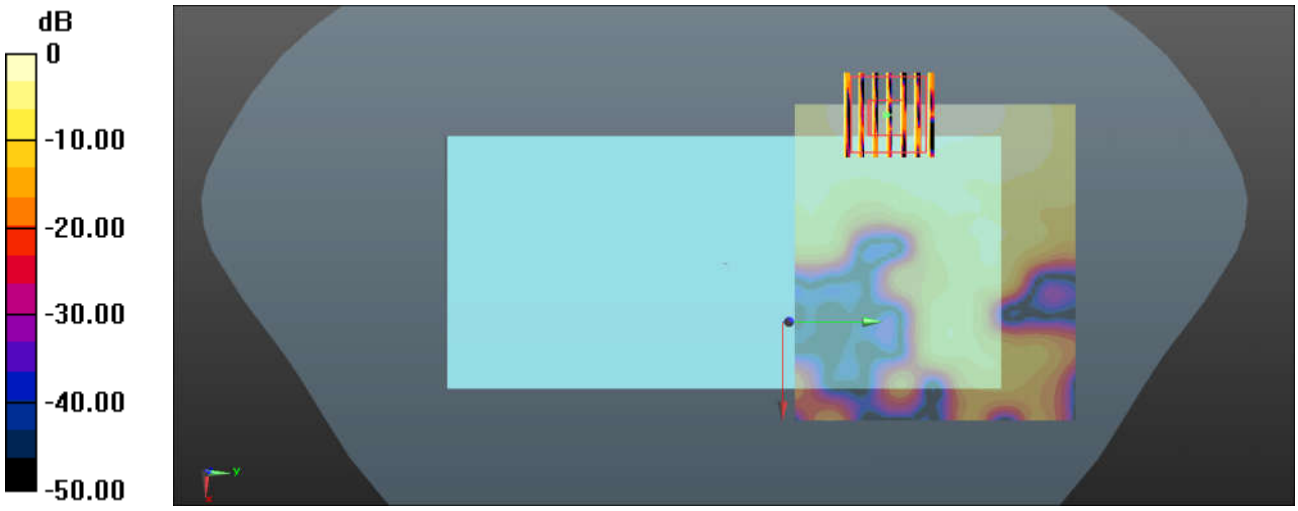
48_WLAN5.3GHz_802.11a 6Mbps_Back_15mm_Battery 2_Ch60

Communication System: UID 0, 802.11a (0); Frequency: 5300 MHz;Duty Cycle: 1:1.009
Medium: MSL_5000 Medium parameters used: f = 5300 MHz; σ = 5.514 S/m; ε_r = 48.799; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.67, 4.67, 4.67); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch60/Area Scan (91x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.192 W/kg

Ch60/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.394 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.263 W/kg
SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.028 W/kg
Maximum value of SAR (measured) = 0.195 W/kg



0 dB = 0.195 W/kg

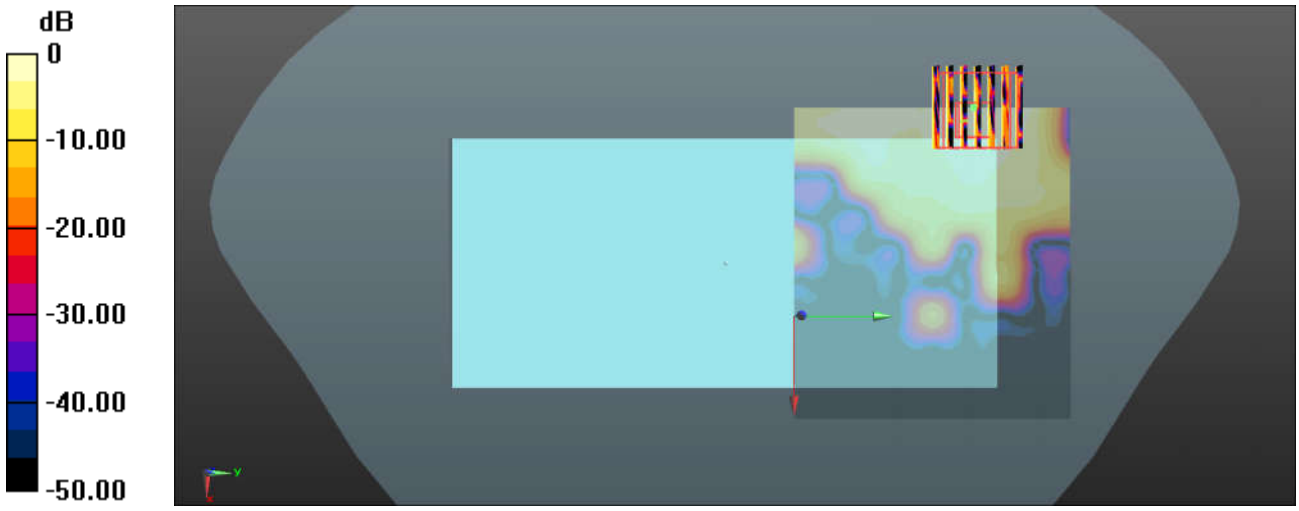
49_WLAN5.5GHz_802.11a 6Mbps_Back_15mm_Battery 1_Ch116

Communication System: UID 0, 802.11a (0); Frequency: 5580 MHz;Duty Cycle: 1:1.009
Medium: MSL_5000 Medium parameters used: f = 5580 MHz; σ = 5.883 S/m; ε_r = 48.346; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.04, 4.04, 4.04); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch116/Area Scan (91x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.131 W/kg

Ch116/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.788 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.210 W/kg
SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.018 W/kg
Maximum value of SAR (measured) = 0.134 W/kg



0 dB = 0.134 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2019.5.23

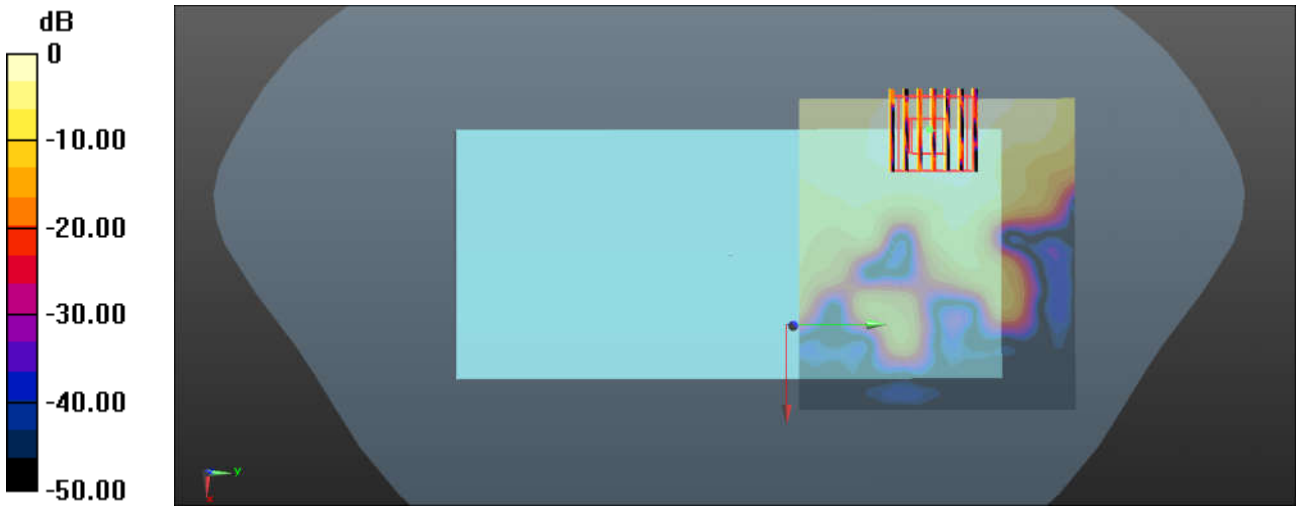
50_WLAN5.8GHz_802.11a 6Mbps_Back_15mm_Battery 1_Ch157

Communication System: UID 0, 802.11a (0); Frequency: 5785 MHz;Duty Cycle: 1:1.009
Medium: MSL_5000 Medium parameters used: f = 5785 MHz; σ = 6.168 S/m; ε_r = 48.017;
$\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.16, 4.16, 4.16); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch157/Area Scan (91x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.250 W/kg

Ch157/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.310 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.404 W/kg
SAR(1 g) = 0.100 W/kg; SAR(10 g) = 0.038 W/kg
Maximum value of SAR (measured) = 0.252 W/kg



0 dB = 0.252 W/kg

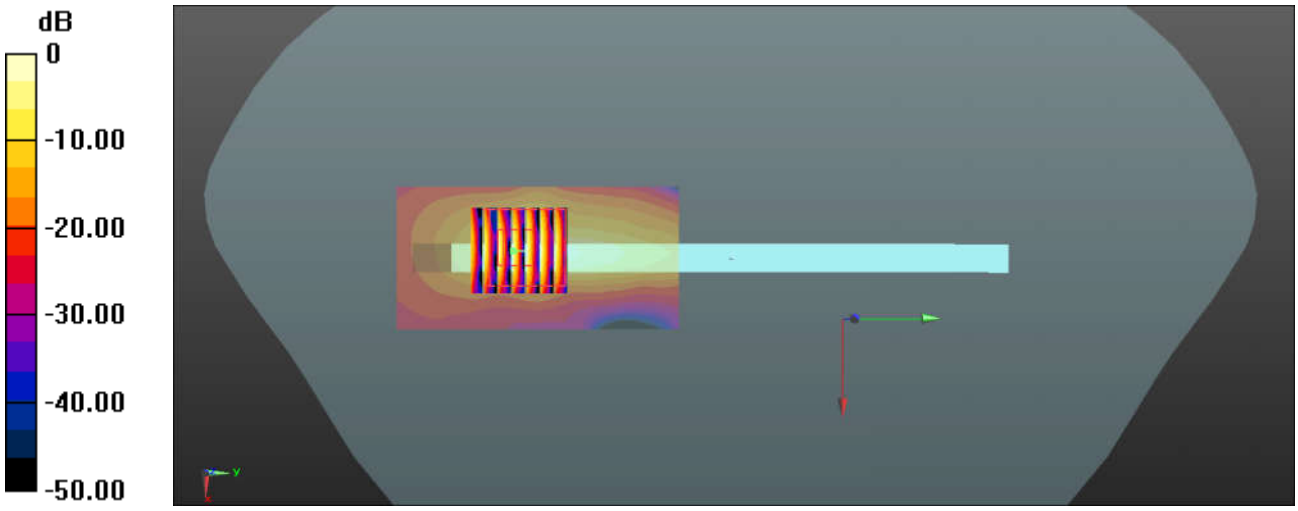
51_WLAN5.3GHz_802.11a 6Mbps_Right Side_0mm_Battery 2_Ch60

Communication System: UID 0, 802.11a (0); Frequency: 5300 MHz;Duty Cycle: 1:1.009
Medium: MSL_5000 Medium parameters used: f = 5300 MHz; σ = 5.514 S/m; ε_r = 48.799; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.67, 4.67, 4.67); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch60/Area Scan (41x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.87 W/kg

Ch60/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.232 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 22.0 W/kg
SAR(1 g) = 3.37 W/kg; SAR(10 g) = 0.788 W/kg
Maximum value of SAR (measured) = 11.3 W/kg



0 dB = 11.3 W/kg

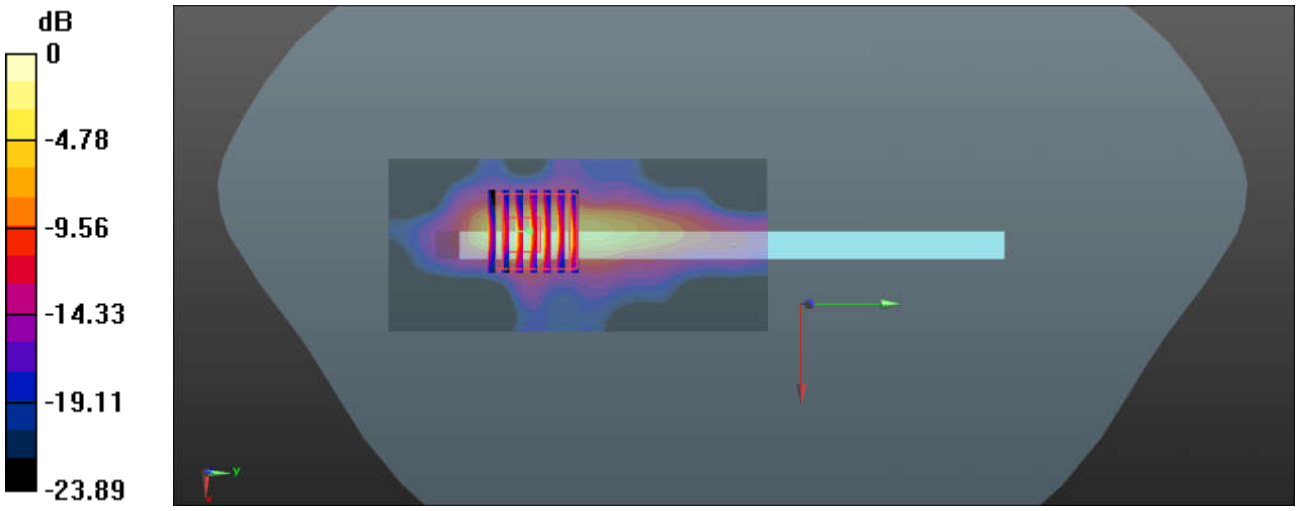
52_WLAN5.5GHz_802.11a 6Mbps_Right Side_0mm_Battery 2_Ch116

Communication System: UID 0, 802.11a (0); Frequency: 5580 MHz;Duty Cycle: 1:1.009
Medium: MSL_5000 Medium parameters used: f = 5580 MHz; σ = 5.883 S/m; ε_r = 48.346; $\rho = 1000_{kg/m^3}$
Ambient Temperature：23.3 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.04, 4.04, 4.04); Calibrated: 2019.1.22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2019.1.23
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

Ch116/Area Scan (111x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 4.54 W/kg

Ch116/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.645 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 9.45 W/kg
SAR(1 g) = 2 W/kg; SAR(10 g) = 0.608 W/kg
Maximum value of SAR (measured) = 5.57 W/kg



0 dB = 5.57 W/kg