Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

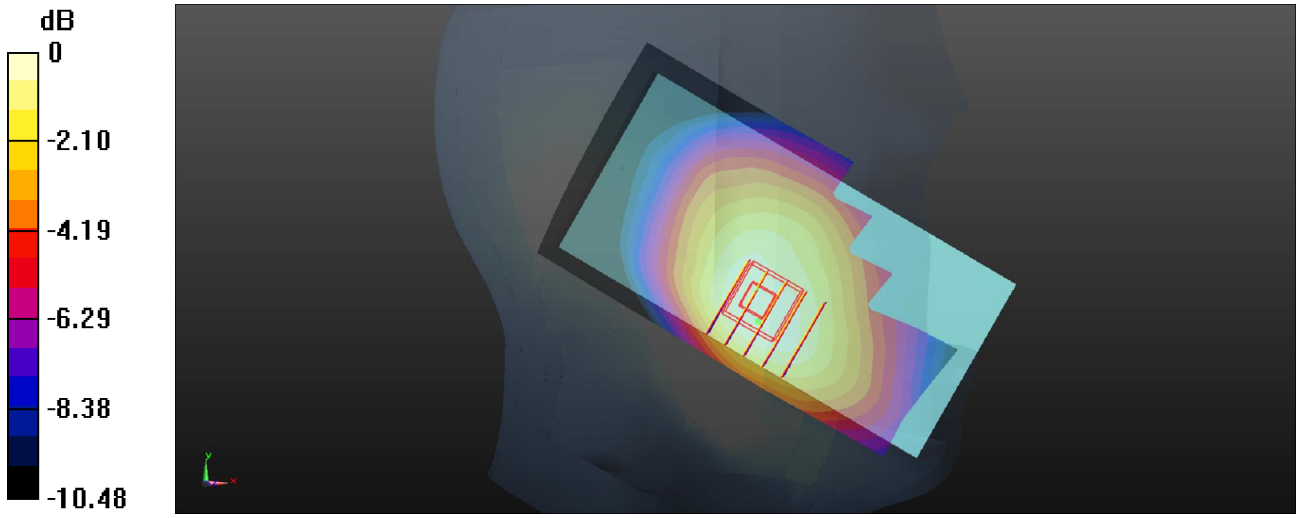
01_GSM850_GPRS (4 Tx slots)_Left Cheek_0mm_Ch251

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 848.8 MHz;Duty Cycle:1:2.08
Medium: HSL_835_Medium parameters used: f = 848.8 MHz; σ = 0.927 S/m; ε_r = 41.428;
ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch251/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.226 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.727 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.244 W/kg
SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.136 W/kg
Maximum value of SAR (measured) = 0.218 W/kg



0 dB = 0.218 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/10

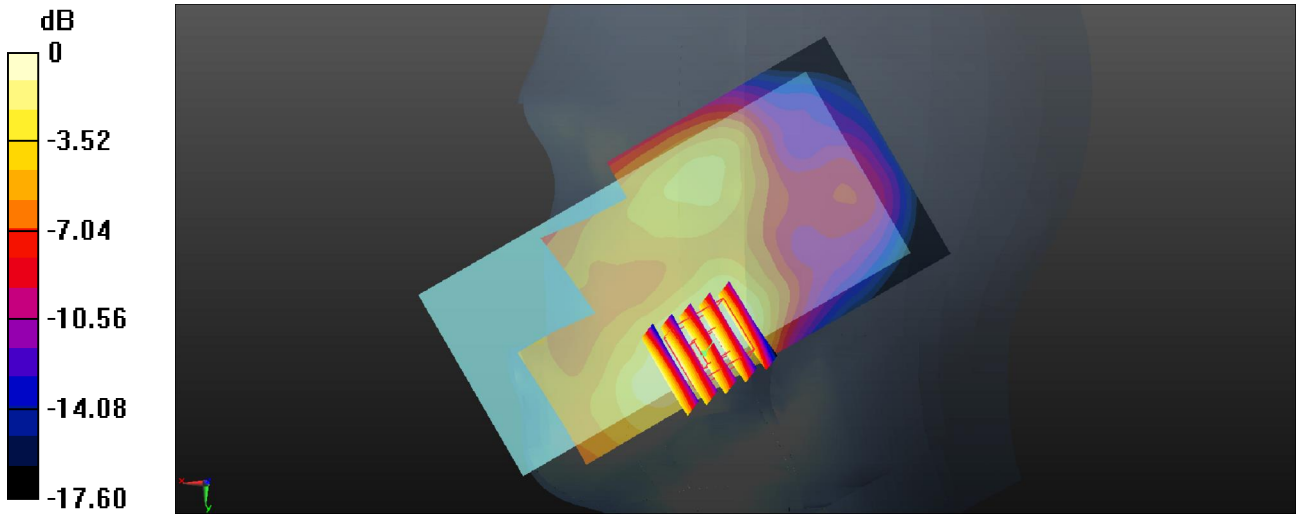
02_GSM1900_GPRS (4 Tx slots)_Right Cheek_0mm_Ch512

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 1850.2 MHz;Duty Cycle:1:2.08
Medium: HSL_1900_Medium parameters used: f = 1850.2 MHz; σ = 1.413 S/m; ε_r = 39.337;
ρ =1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.41, 8.41, 8.41); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch512/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.206 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.239 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.243 W/kg
SAR(1 g) = 0.154 W/kg; SAR(10 g) = 0.096 W/kg
Maximum value of SAR (measured) = 0.211 W/kg



0 dB = 0.211 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

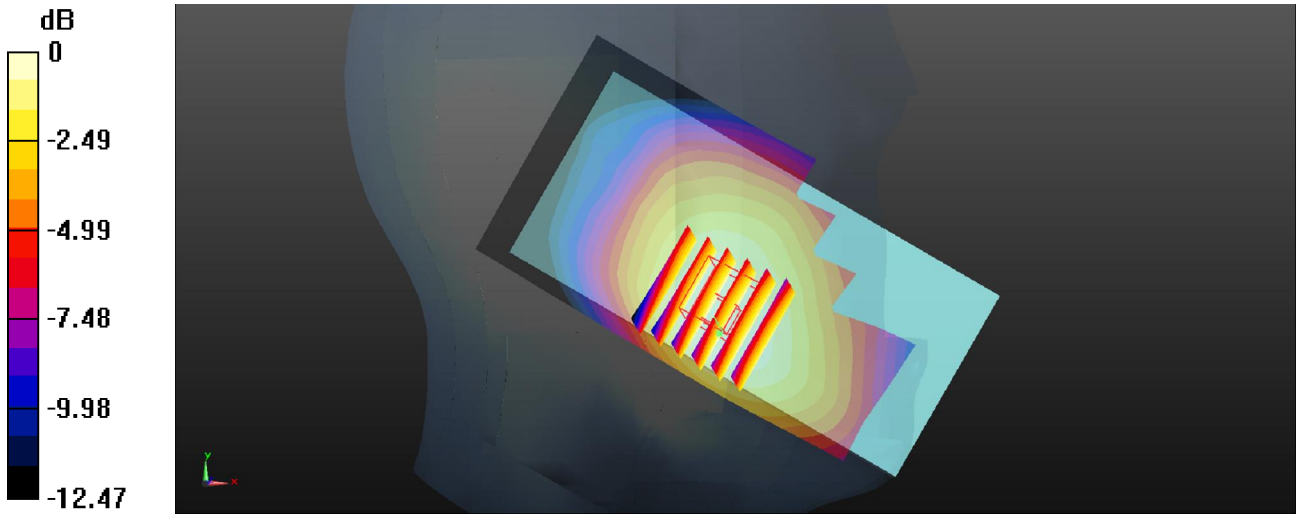
03_WCDMA Band V_RMC 12.2Kbps_Left Cheek_0mm_Ch4233

Communication System: UID 0, WCDMA (0); Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: HSL_835_Medium parameters used: f = 846.6 MHz; σ = 0.925 S/m; ε_r = 41.452; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch4233/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.291 W/kg

Ch4233/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.748 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.291 W/kg
SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.164 W/kg
Maximum value of SAR (measured) = 0.261 W/kg



0 dB = 0.261 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/10

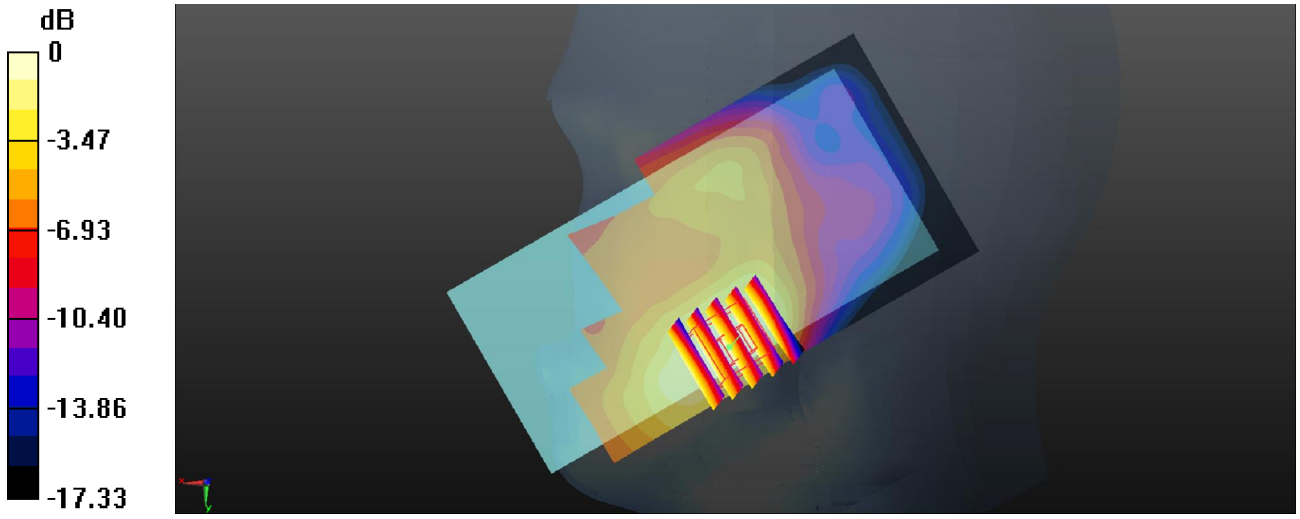
04_WCDMA Band IV_RMC 12.2Kbps_Right Cheek_0mm_Ch1513

Communication System: UID 0, WCDMA (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: HSL_1750_Medium parameters used: f = 1752.6 MHz; σ = 1.364 S/m; ε_r = 40.457; ρ = 1000kg/m^3
Ambient Temperature：23.9 ℃; Liquid Temperature ：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.85, 8.85, 8.85); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch1513/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.387 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.918 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.438 W/kg
SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.176 W/kg
Maximum value of SAR (measured) = 0.378 W/kg



0 dB = 0.378 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/10

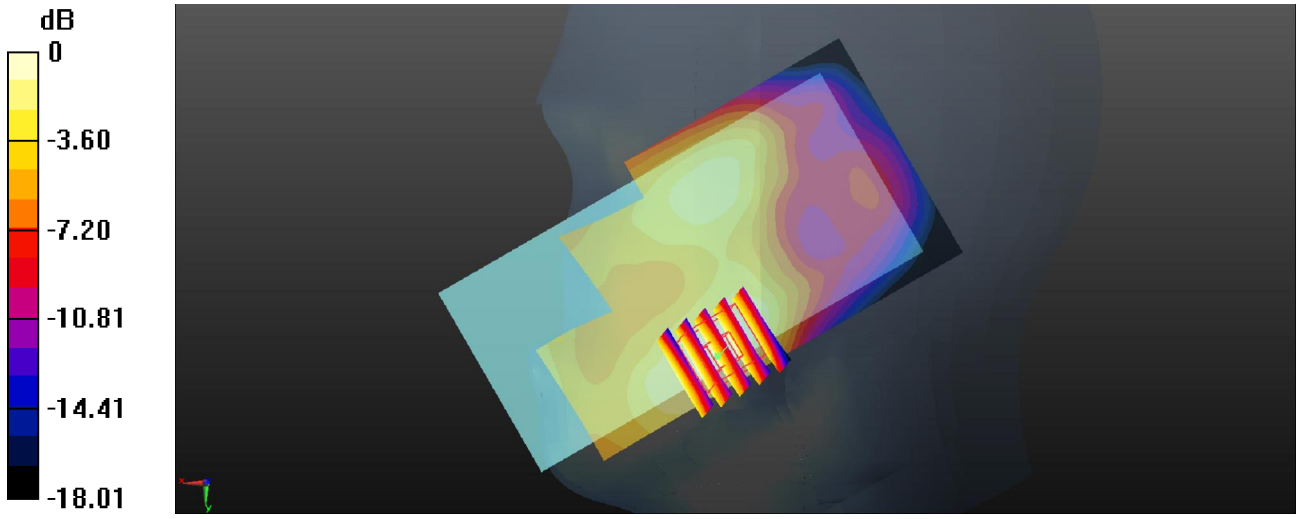
05_WCDMA Band II_RMC 12.2Kbps_Right Cheek_0mm_Ch9538

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: HSL_1900_Medium parameters used: f = 1907.6 MHz; σ = 1.472 S/m; ε_r = 39.107; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.41, 8.41, 8.41); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch9538/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.188 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.030 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.227 W/kg
SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.196 W/kg



0 dB = 0.196 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/8

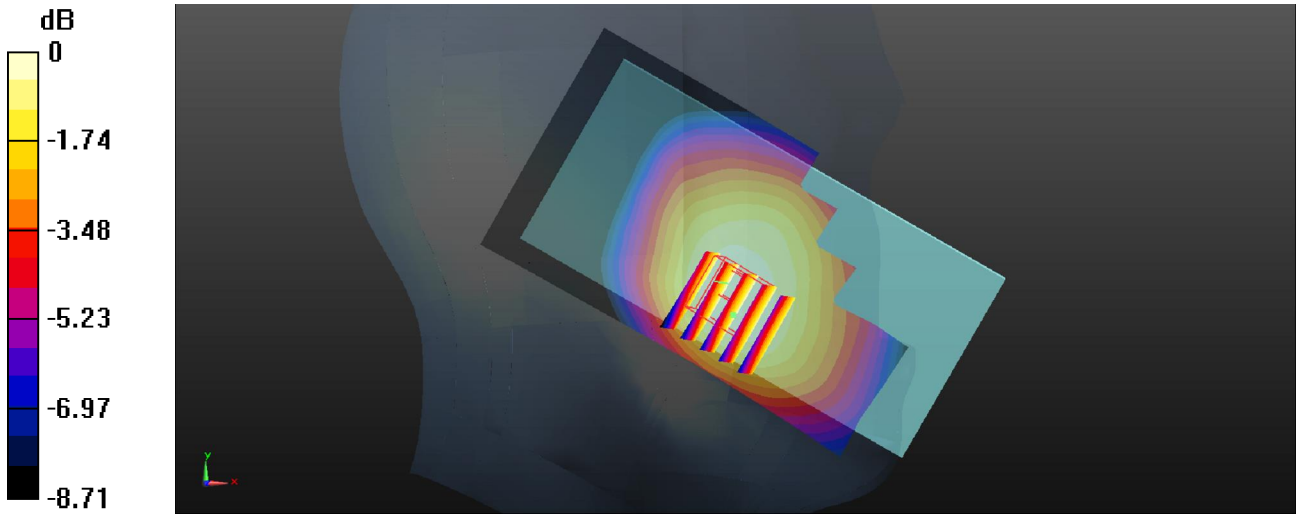
06_LTE Band 12_10M_QPSK_1RB_49offset_Left Cheek_0mm_Ch23095

Communication System: UID 0, FDD-LTE (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: HSL_750_Medium parameters used: f = 707.5 MHz; σ = 0.854 S/m; ε_r = 42.583; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.68, 10.68, 10.68); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch23095/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.234 W/kg

Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.611 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.256 W/kg
SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.159 W/kg
Maximum value of SAR (measured) = 0.238 W/kg



0 dB = 0.238 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

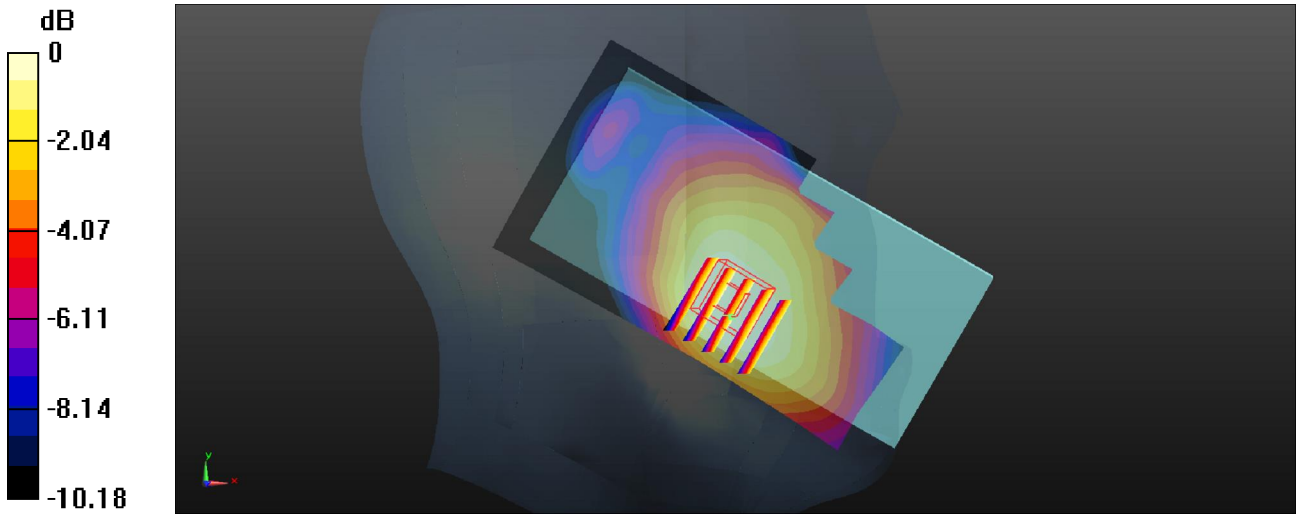
07_LTE Band 5_10M_QPSK_1RB_0offset_Left Cheek_0mm_Ch20525

Communication System: UID 0, FDD-LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: HSL_835_Medium parameters used: f = 836.5 MHz; σ = 0.915 S/m; ε_r = 41.58;
ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.36, 10.36, 10.36); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20525/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.269 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.280 W/kg
SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.160 W/kg
Maximum value of SAR (measured) = 0.251 W/kg



0 dB = 0.251 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/10

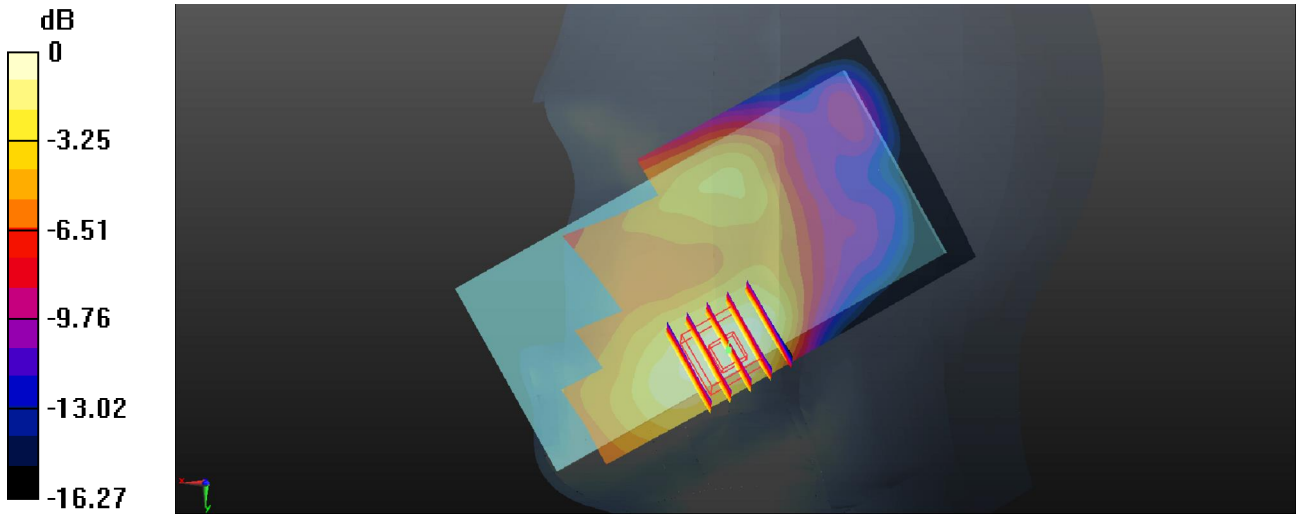
08_LTE Band 4_20M_QPSK_1RB_0offset_Right Cheek_0mm_Ch20175

Communication System: UID 0, FDD-LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: HSL_1750_Medium parameters used: f = 1732.5 MHz; σ = 1.343 S/m; ε_r = 40.521; ρ =1000 kg/m^3
Ambient Temperature：23.9 ℃; Liquid Temperature ：22.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.85, 8.85, 8.85); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20175/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.310 W/kg

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.436 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.350 W/kg
SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.144 W/kg
Maximum value of SAR (measured) = 0.308 W/kg



0 dB = 0.308 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/10

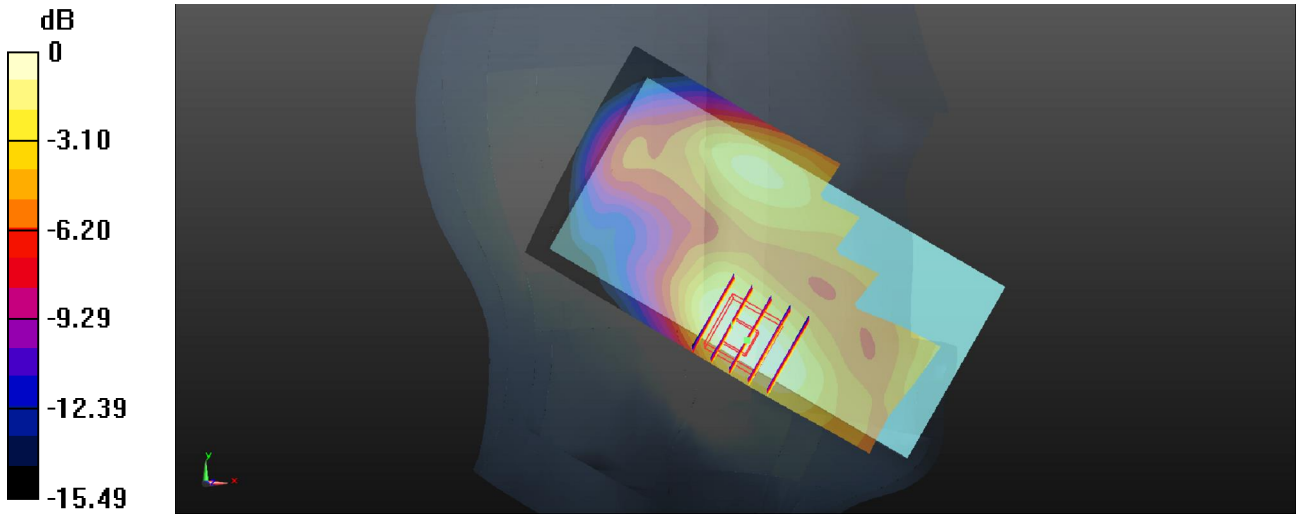
09_LTE Band 2_20M_QPSK_1RB_0offset_Left Cheek_0mm_Ch18900

Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL_1900_Medium parameters used: f = 1880 MHz; σ = 1.442 S/m; ε_r = 39.227;
ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.41, 8.41, 8.41); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch18900/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.186 W/kg

Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.448 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.214 W/kg
SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.082 W/kg
Maximum value of SAR (measured) = 0.180 W/kg



0 dB = 0.180 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/8

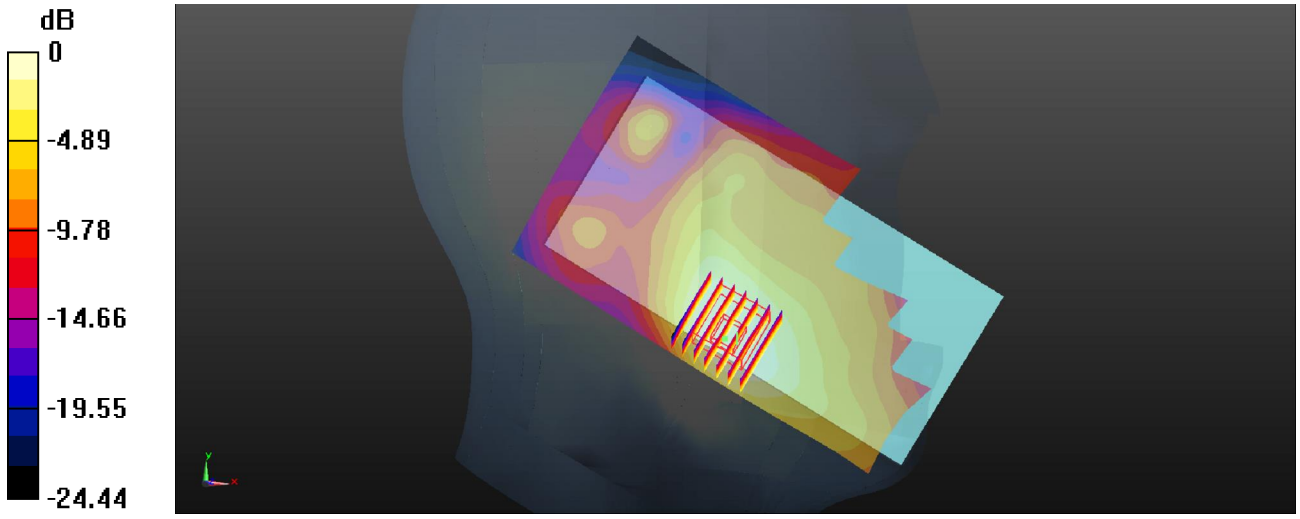
10_LTE Band 7_20M_QPSK_1RB_99offset_Left Cheek_0mm_Ch21350

Communication System: UID 0, FDD-LTE (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: HSL_2600_Medium parameters used: f = 2560 MHz; σ = 1.992 S/m; ε_r = 39.194; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(7.67, 7.67, 7.67); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch21350/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.813 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.050 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.903 W/kg
SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.279 W/kg
Maximum value of SAR (measured) = 0.741 W/kg



0 dB = 0.741 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/8

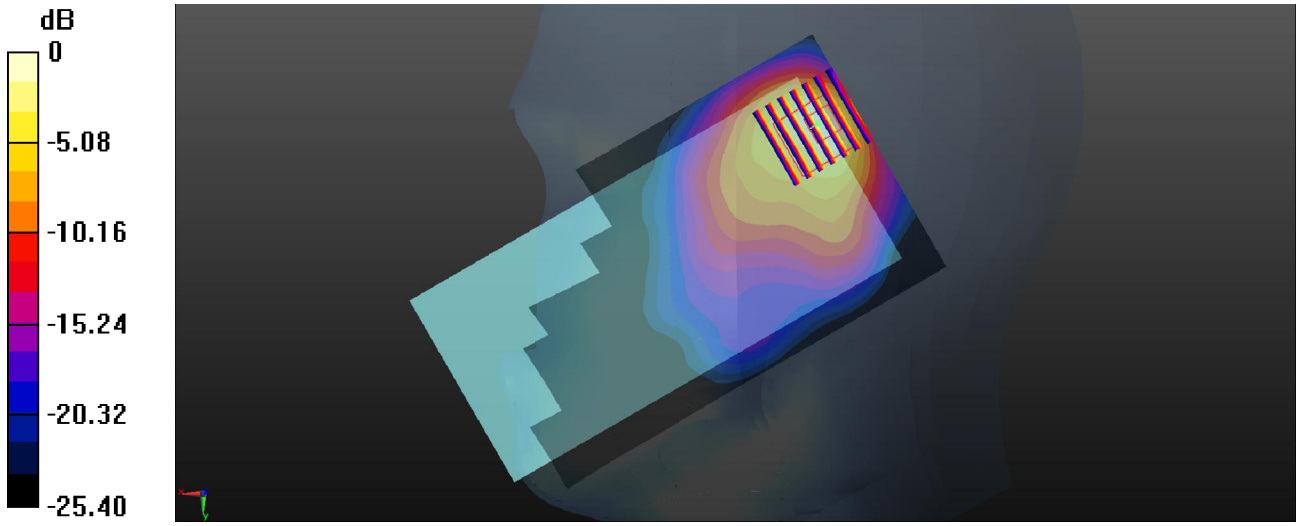
11_WLAN2.4GHz_802.11b 1Mbps_Right Cheek_0mm_Ch11

Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: HSL_2450_Medium parameters used: f = 2462 MHz; σ = 1.876 S/m; ε_r = 39.605; ρ = 1000kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature ：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(7.87, 7.87, 7.87); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch11/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 2.25 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.98 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.78 W/kg
SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.404 W/kg
Maximum value of SAR (measured) = 1.96 W/kg



0 dB = 1.96 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

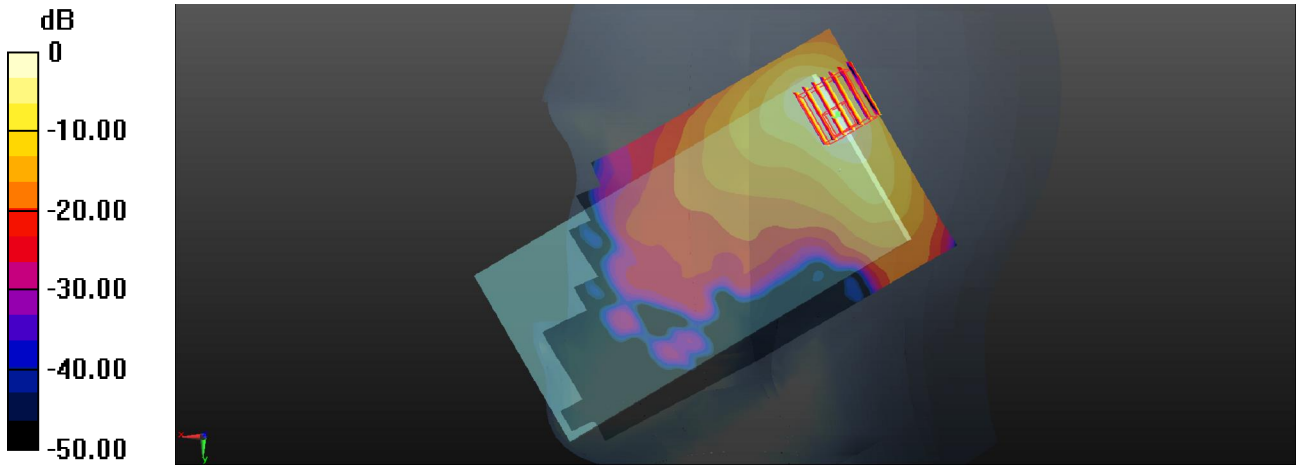
12_WLAN5.3GHz_802.11a 6Mbps_Right Tilted_Ch64

Communication System: UID 0, WIFI (0); Frequency: 5320 MHz;Duty Cycle: 1:1.047
Medium: HSL_5G_Medium parameters used: f = 5320 MHz; σ = 4.835 S/m; ε_r = 36.739; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(5.25, 5.25, 5.25); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch64/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.43 W/kg

Ch64/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.4280 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 3.26 W/kg
SAR(1 g) = 0.694 W/kg; SAR(10 g) = 0.197 W/kg
Maximum value of SAR (measured) = 1.83 W/kg



0 dB = 1.83 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

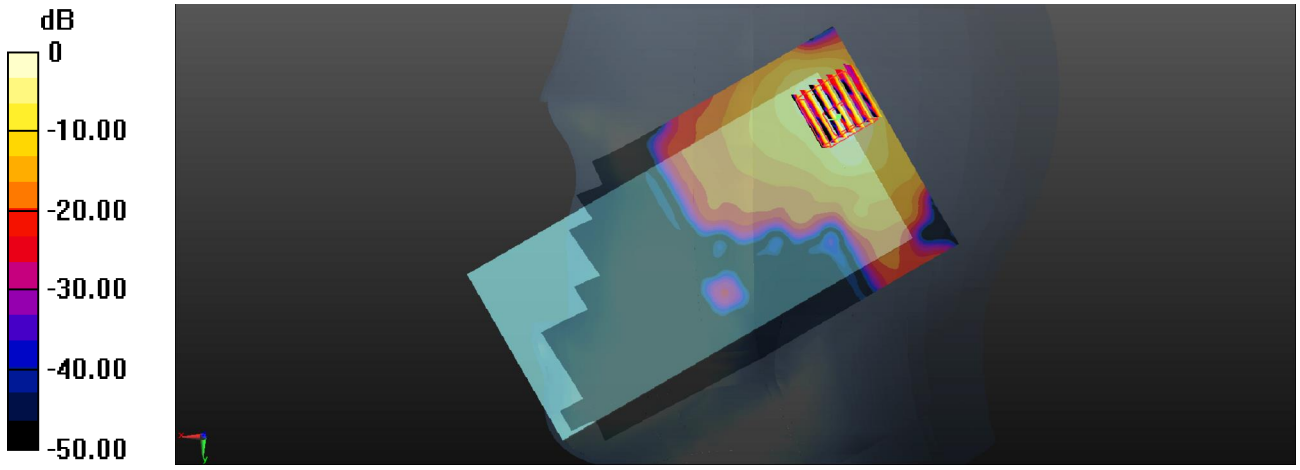
13_WLAN5.5GHz_802.11a 6Mbps_Right Tilted_Ch100

Communication System: UID 0, WIFI (0); Frequency: 5500 MHz;Duty Cycle: 1:1.047
Medium: HSL_5G_Medium parameters used: f = 5500 MHz; σ = 5.064 S/m; ε_r = 36.369; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.6, 4.6, 4.6); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch100/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.923 W/kg

Ch100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.5910 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.73 W/kg
SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.094 W/kg
Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/14

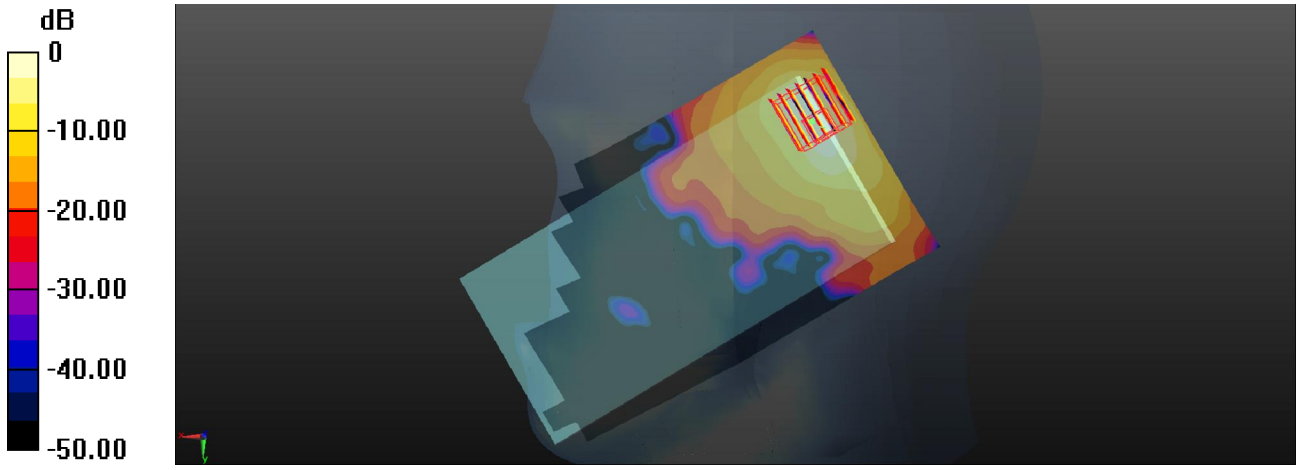
14_WLAN5.8GHz_802.11a 6Mbps_Right Tilted_Ch149

Communication System: UID 0, WIFI (0); Frequency: 5745 MHz;Duty Cycle: 1:1.047
Medium: HSL_5G_Medium parameters used: f = 5745 MHz; σ = 5.358 S/m; ε_r = 35.856;
ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.93, 4.93, 4.93); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch149/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.811 W/kg

Ch149/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.5550 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.80 W/kg
SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.101 W/kg
Maximum value of SAR (measured) = 0.945 W/kg



0 dB = 0.945 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

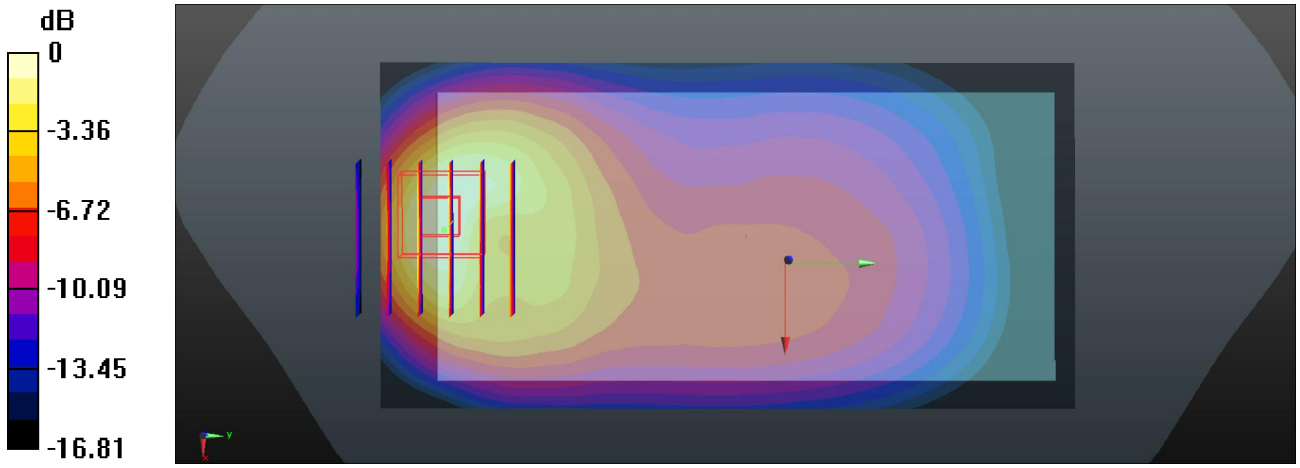
15_GSM850_GPRS (4 Tx slots)_Back_5mm_Ch189

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 836.4 MHz;Duty Cycle:1:2.08
Medium: MSL_835_Medium parameters used: f = 836.4 MHz; σ = 0.997 S/m; ε_r = 55.196;
ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch189/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.62 W/kg

Ch189/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.70 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.08 W/kg
SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.486 W/kg
Maximum value of SAR (measured) = 1.58 W/kg



0 dB = 1.58 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

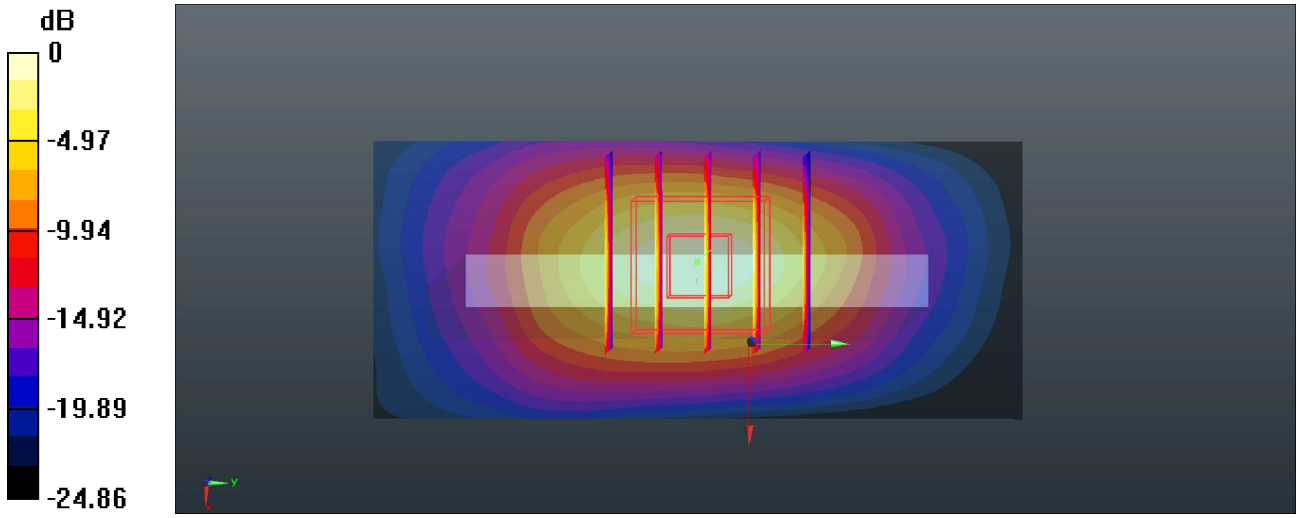
16_GSM1900_GPRS 4 Tx slots_Bottom side_5mm_Ch512

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 1850.2 MHz;Duty Cycle:1:2.08
Medium: MSL_1900_Medium parameters used: f = 1850.2 MHz; σ = 1.491 S/m; ε_r = 51.605;
ρ =1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch512/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.06 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.52 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.291 W/kg
Maximum value of SAR (measured) = 0.992 W/kg



0 dB = 0.992 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

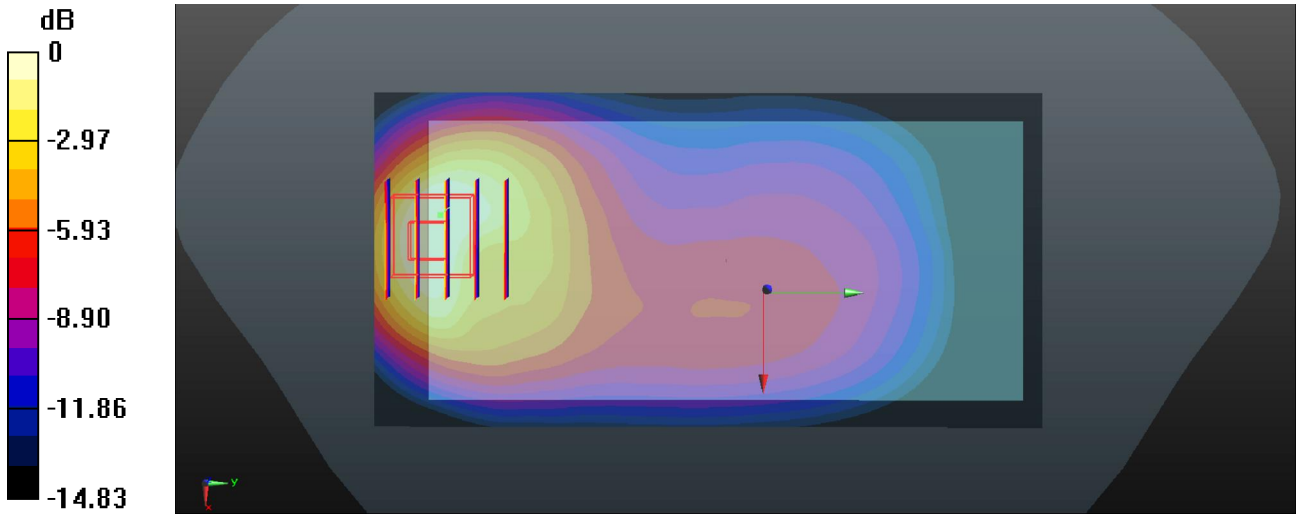
17_WCDMA Band V_RMC 12.2Kbps_Back_5mm_Ch4233

Communication System: UID 0, WCDMA (0); Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: MSL_835_Medium parameters used: f = 846.6 MHz; σ = 1.007 S/m; ε_r = 55.093; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch4233/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.69 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.53 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.87 W/kg
SAR(1 g) = 0.893 W/kg; SAR(10 g) = 0.475 W/kg
Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

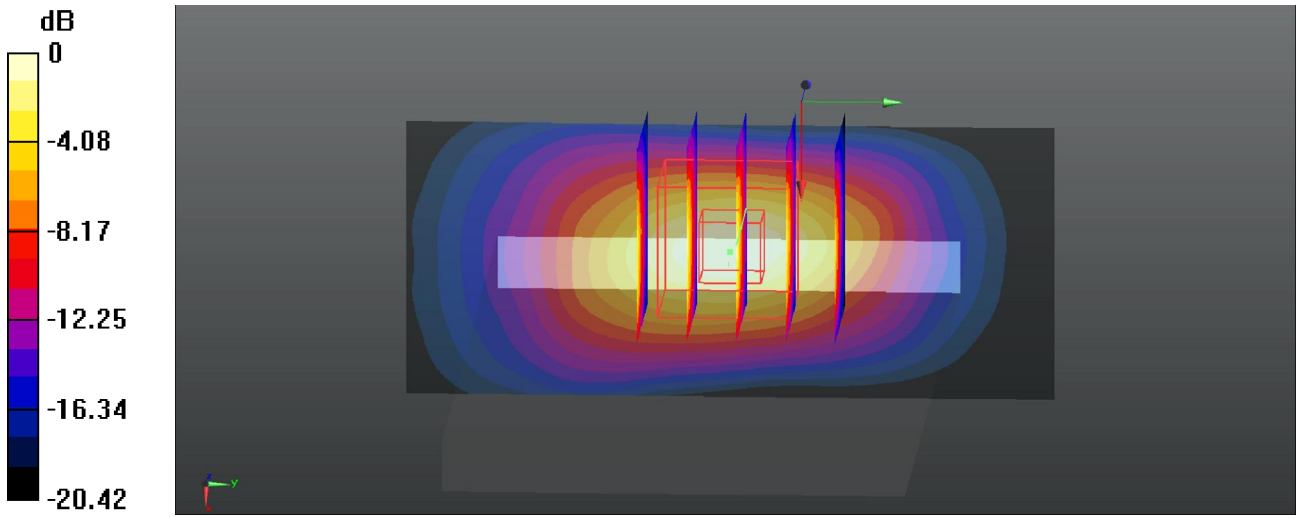
18_WCDMA Band IV_RMC 12.2Kbps_Bottom side_5mm_Ch1513

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 = 1.517 S/m; ε_r = 53.682; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch1513/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.28 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.83 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.766 W/kg; SAR(10 g) = 0.358 W/kg
Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

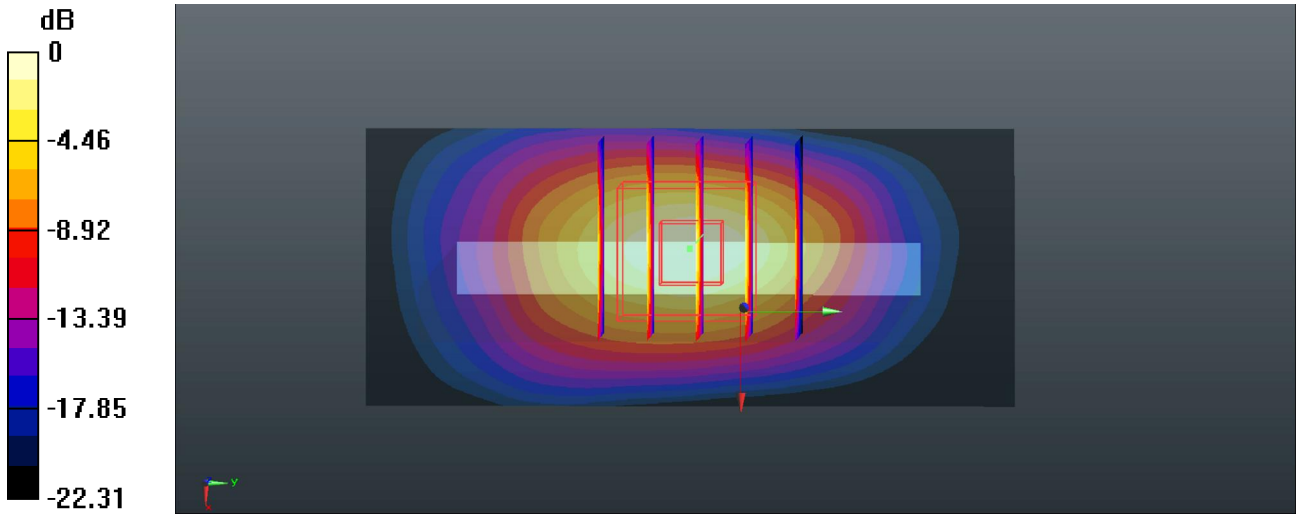
19_WCDMA Band II_RMC 12.2Kbps_Bottom side_5mm_Ch9538

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: MSL_1900_Medium parameters used: f = 1907.6 MHz; σ = 1.556 S/m; ε_r = 51.443; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch9538/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.95 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.51 W/kg
SAR(1 g) = 0.752 W/kg; SAR(10 g) = 0.343 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

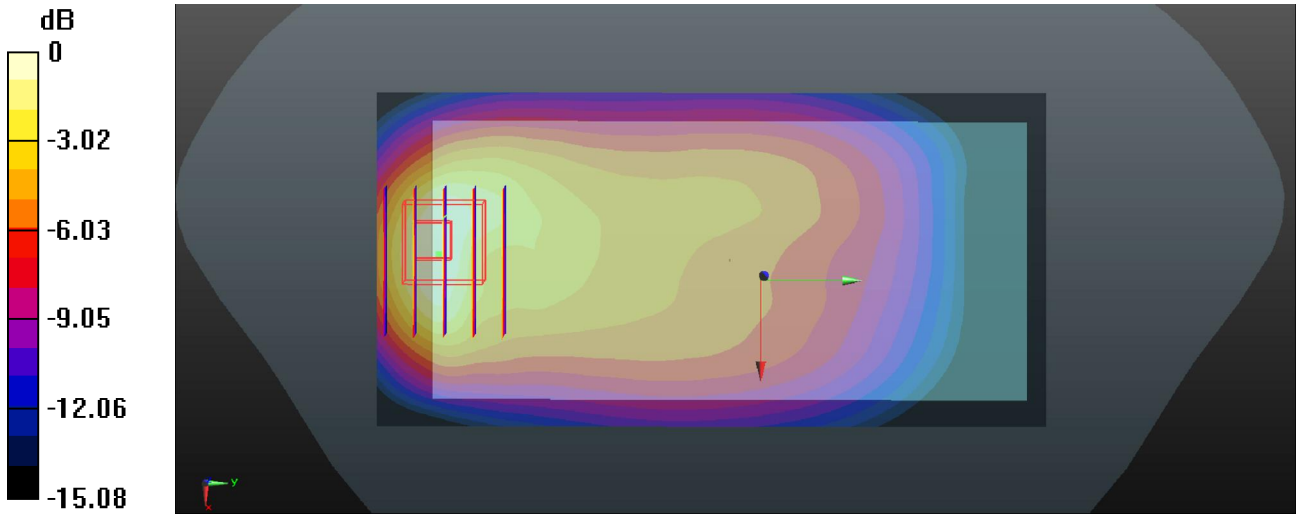
20_LTE Band 12_10M_QPSK_1RB_49offset_Back_5mm_Ch23095

Communication System: UID 0, FDD-LTE (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: MSL_750_Medium parameters used: f = 707.5 MHz; σ = 0.932 S/m; ε_r = 57.365; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.65, 10.65, 10.65); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch23095/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.990 W/kg

Ch23095/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.94 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.315 W/kg
Maximum value of SAR (measured) = 0.925 W/kg



0 dB = 0.925 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

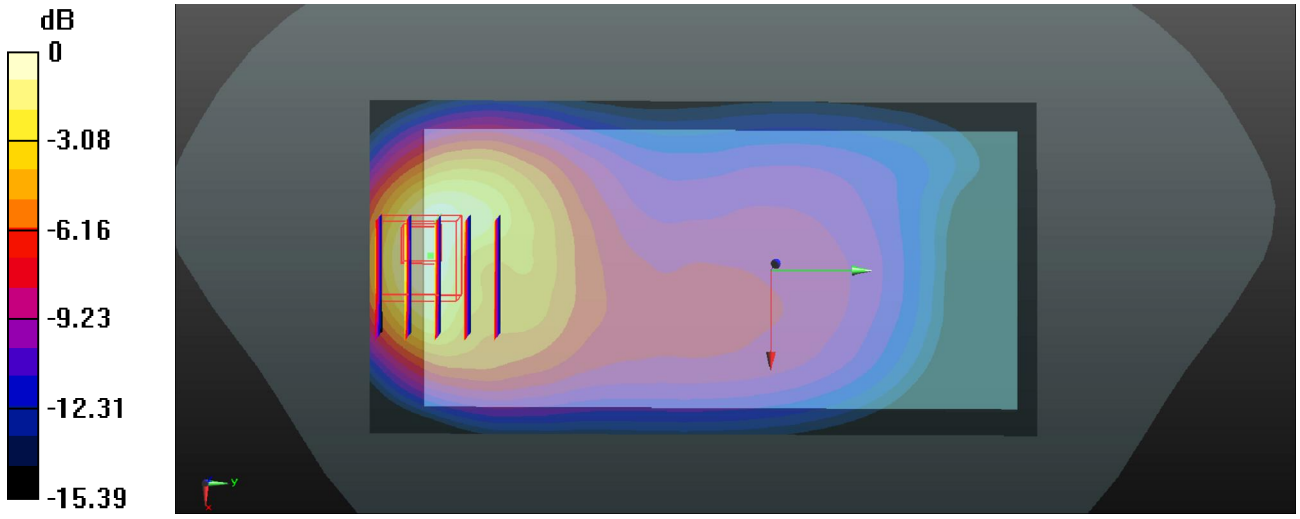
21_LTE Band 5_10M_QPSK_1RB_0offset_Back_5mm_Ch20525

Communication System: UID 0, FDD-LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: MSL_835_Medium parameters used: f = 836.5 MHz; σ = 0.997 S/m; ε_r = 55.195; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20525/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.63 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.56 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.09 W/kg
SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.510 W/kg
Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.61 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

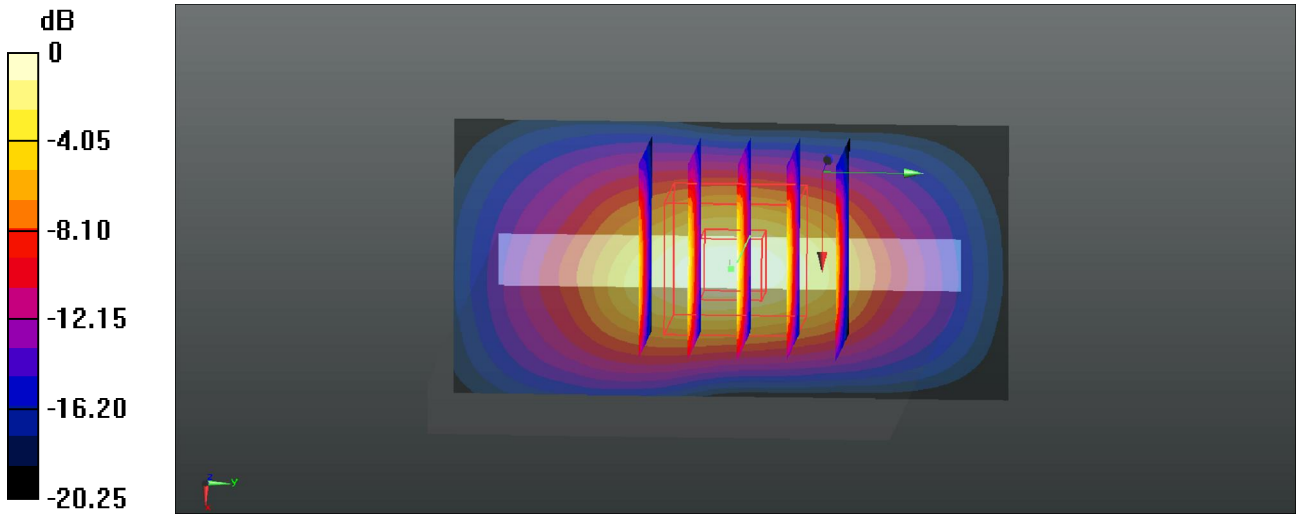
22_LTE Band 4_20M_QPSK_50RB_24offset_Bottom side_5mm_Ch20175

Communication System: UID 0, FDD-LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: MSL_1750_Medium parameters used: f = 1732.5 MHz; σ = 1.495 S/m; ε_r = 53.753; ρ =1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20175/Area Scan (31x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.49 W/kg

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.09 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 0.946 W/kg; SAR(10 g) = 0.442 W/kg
Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

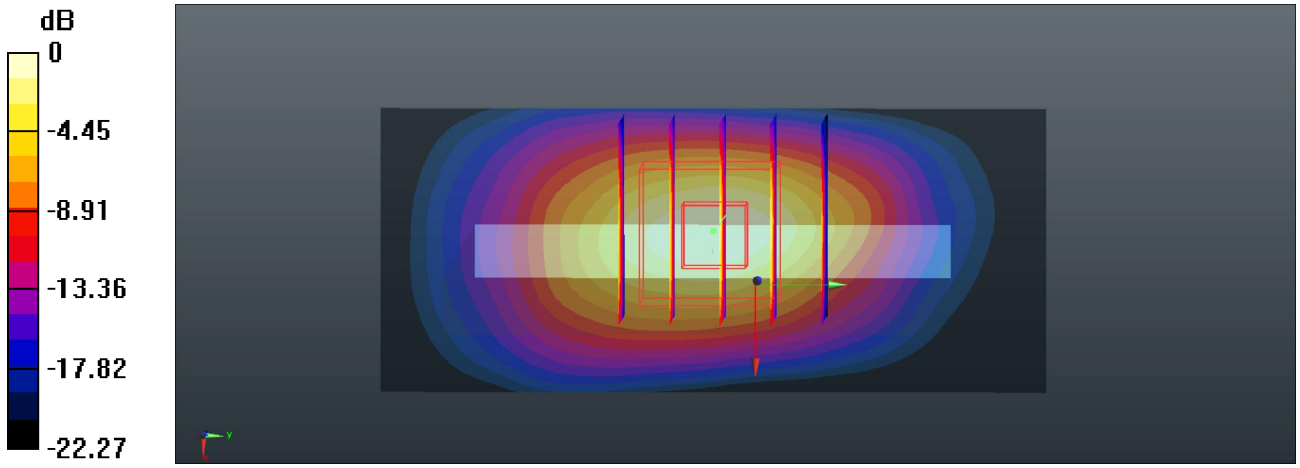
23_LTE Band 2_20M_QPSK_50RB_24offset_Bottom side_5mm_Ch19100

Communication System: UID 0, FDD-LTE (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900_Medium parameters used: f = 1900 MHz; σ = 1.547 S/m; ε_r = 51.464; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch19100/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.59 W/kg

Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.57 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.87 W/kg
SAR(1 g) = 0.924 W/kg; SAR(10 g) = 0.420 W/kg
Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.47 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/12

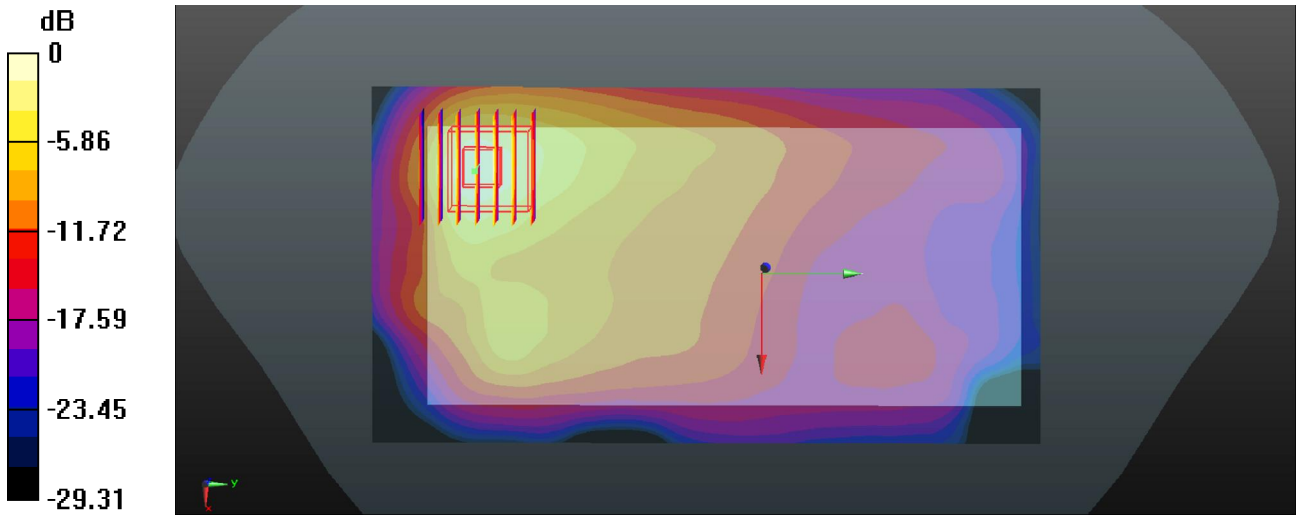
24_LTE Band 7_20M_QPSK_50RB_24offset_Front_5mm_Ch21350

Communication System: UID 0, FDD-LTE (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: MSL_2600_Medium parameters used: f = 2560 MHz; σ = 2.116 S/m; ε_r = 52.095; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(7.71, 7.71, 7.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch21350/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.963 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.647 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.554 W/kg; SAR(10 g) = 0.245 W/kg
Maximum value of SAR (measured) = 0.928 W/kg



0 dB = 0.928 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/12

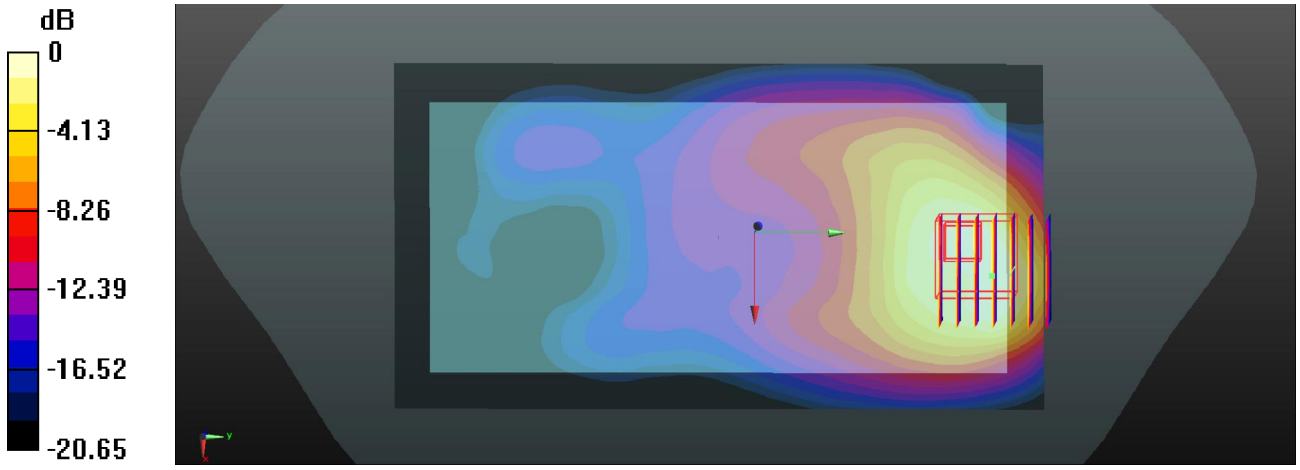
25_WLAN2.4GHz_802.11b 1Mbps_Back_5mm_Ch11

Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: MSL_2450_Medium parameters used: f = 2462 MHz; σ = 1.98 S/m; ε_r = 52.457; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(7.99, 7.99, 7.99); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch11/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.917 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.071 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.288 W/kg
Maximum value of SAR (measured) = 0.879 W/kg



0 dB = 0.879 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/11

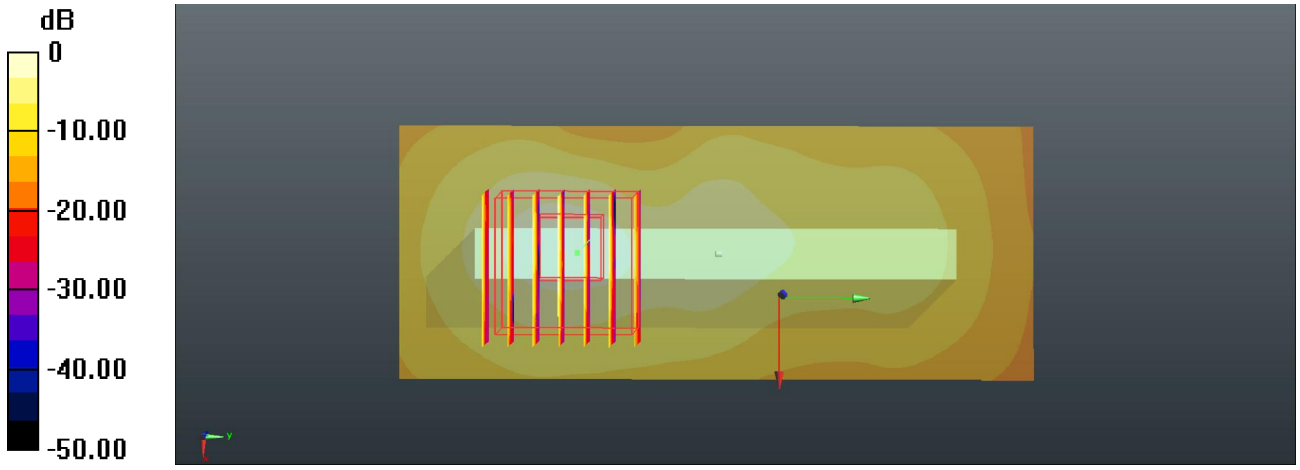
26_WLAN5.2GHz_802.11a 6Mbps_Top side_5mm_Ch48

Communication System: UID 0, WIFI (0); Frequency: 5240 MHz;Duty Cycle: 1:1.047
Medium: MSL_5G_Medium parameters used: f = 5240 MHz; σ = 5.423 S/m; ε_r = 48.422;
ρ = 1000kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.8, 4.8, 4.8); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch48/Area Scan (41x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.14 W/kg

Ch48/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.043 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.91 W/kg
SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.268 W/kg
Maximum value of SAR (measured) = 2.29 W/kg



0 dB = 2.29 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/12

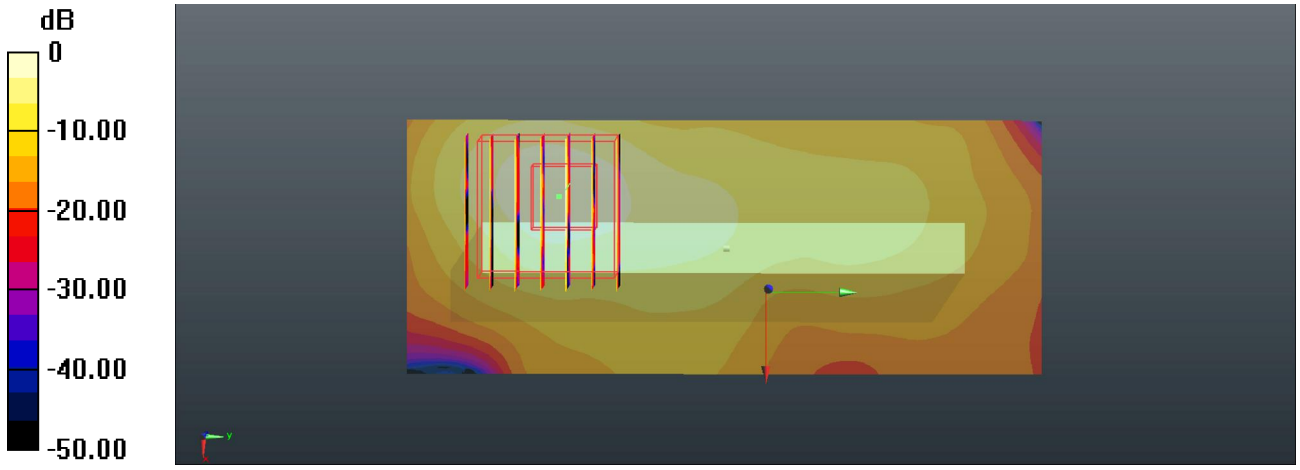
27_WLAN5.8GHz_802.11a 6Mbps_Top side_5mm_Ch149

Communication System: UID 0, WIFI (0); Frequency: 5745 MHz;Duty Cycle: 1:1.047
Medium: MSL_5G_Medium parameters used: f = 5745 MHz; σ = 6.162 S/m; ε_r = 47.294;
ρ = 1000kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature ：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.23, 4.23, 4.23); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch149/Area Scan (41x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Ch149/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.835 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 2.00 W/kg
SAR(1 g) = 0.421 W/kg; SAR(10 g) = 0.115 W/kg
Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/17

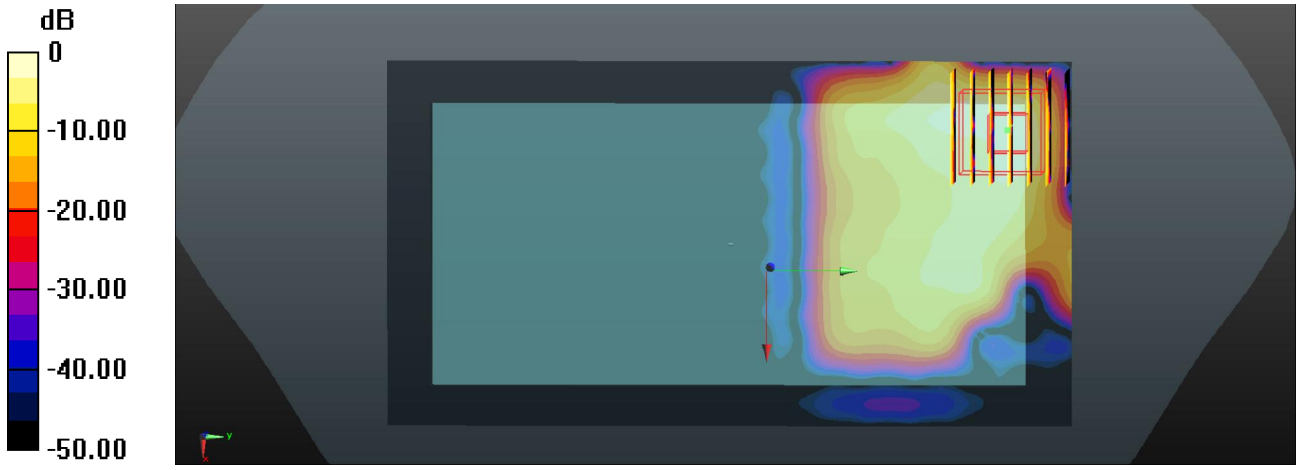
28_Bluetooth_1Mbps_Front_5mm_Ch0

Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz;Duty Cycle: 1:1.3
Medium: MSL_2450_Medium parameters used: f = 2402 MHz; σ = 1.885 S/m; ε_r = 51.834; ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(7.68, 7.68, 7.68); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch0/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0868 W/kg

Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.0970 W/kg
SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.014 W/kg
Maximum value of SAR (measured) = 0.0702 W/kg



0 dB = 0.0702 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

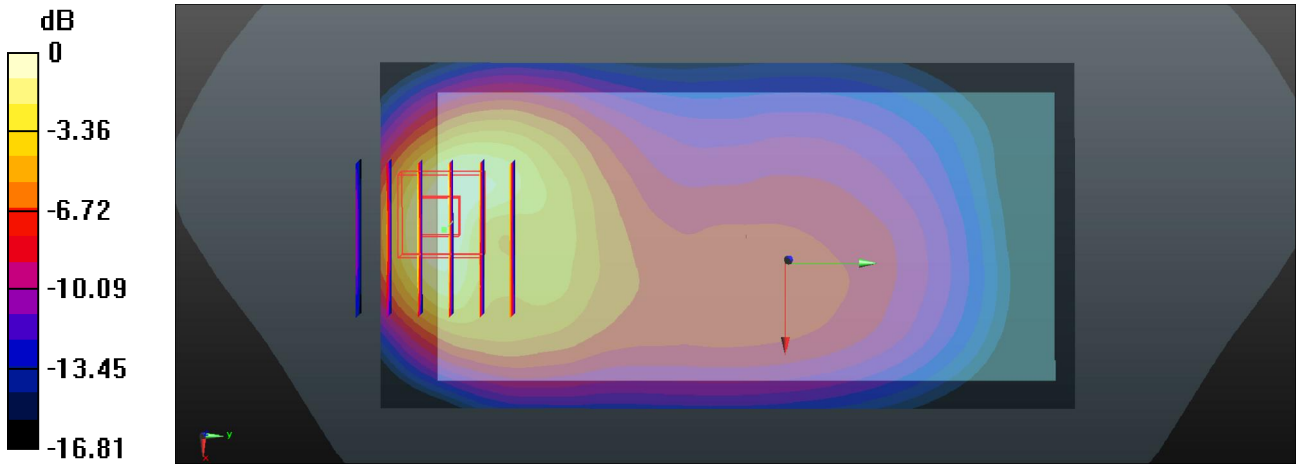
29_GSM850_GPRS (4 Tx slots)_Back_5mm_Ch189

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 836.4 MHz;Duty Cycle:1:2.08
Medium: MSL_835_Medium parameters used: f = 836.4 MHz; σ = 0.997 S/m; ε_r = 55.196;
ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch189/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.62 W/kg

Ch189/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.70 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.08 W/kg
SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.486 W/kg
Maximum value of SAR (measured) = 1.58 W/kg



0 dB = 1.58 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

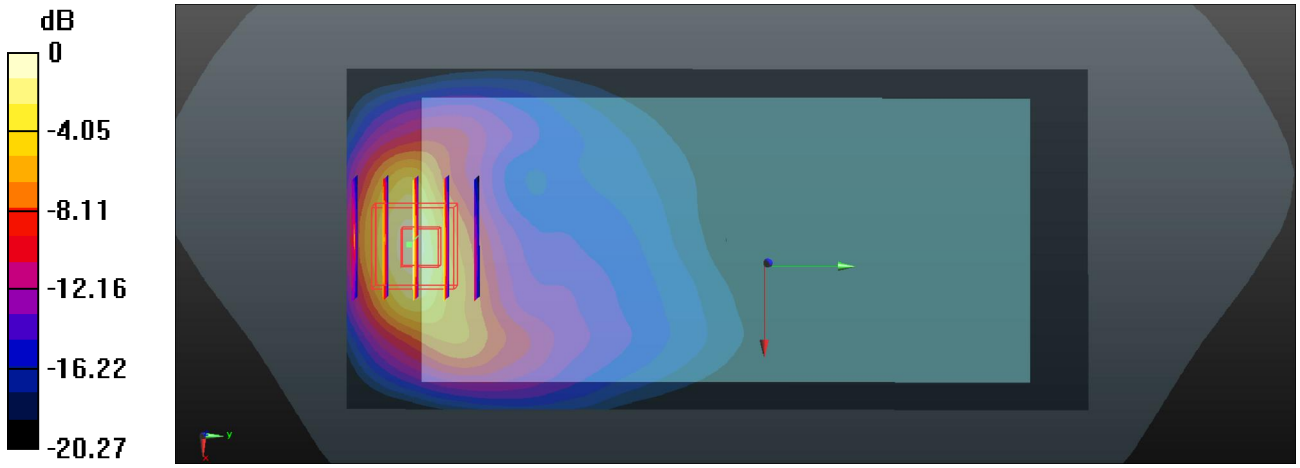
30_GSM1900_GPRS 4 Tx slots_Front_5mm_Ch512

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 1850.2 MHz;Duty Cycle:1:2.08
Medium: MSL_1900_Medium parameters used: f = 1850.2 MHz; σ = 1.491 S/m; ε_r = 51.605;
ρ =1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch512/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.667 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.186 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.986 W/kg
SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.241 W/kg
Maximum value of SAR (measured) = 0.756 W/kg



0 dB = 0.756 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

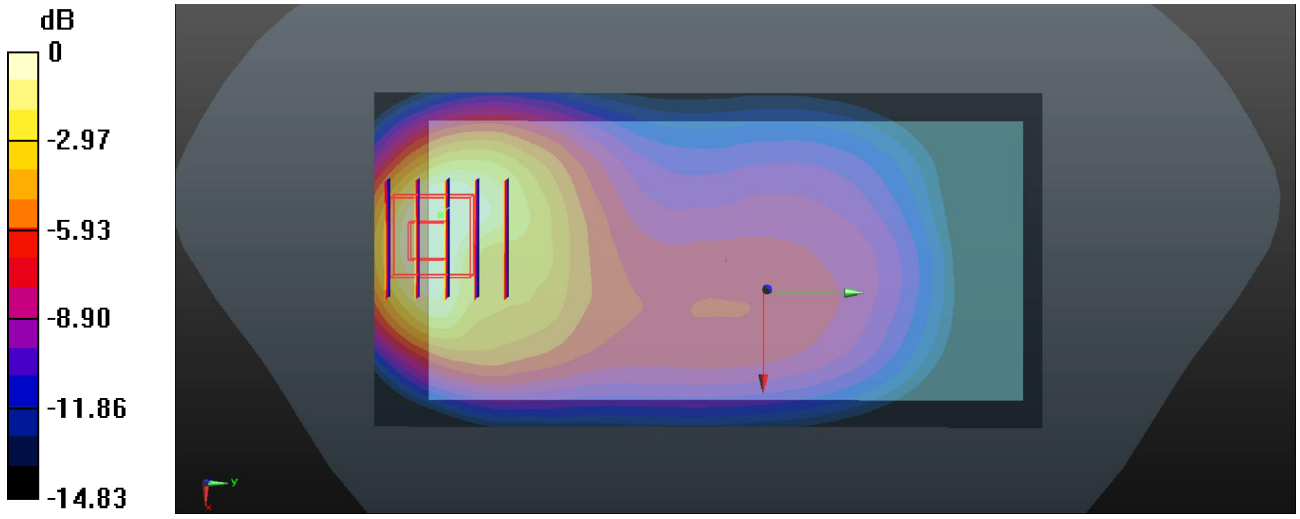
31_WCDMA Band V_RMC 12.2Kbps_Back_5mm_Ch4233

Communication System: UID 0, WCDMA (0); Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: MSL_835_Medium parameters used: f = 846.6 MHz; σ = 1.007 S/m; ε_r = 55.093; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch4233/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.69 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.53 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.87 W/kg
SAR(1 g) = 0.893 W/kg; SAR(10 g) = 0.475 W/kg
Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

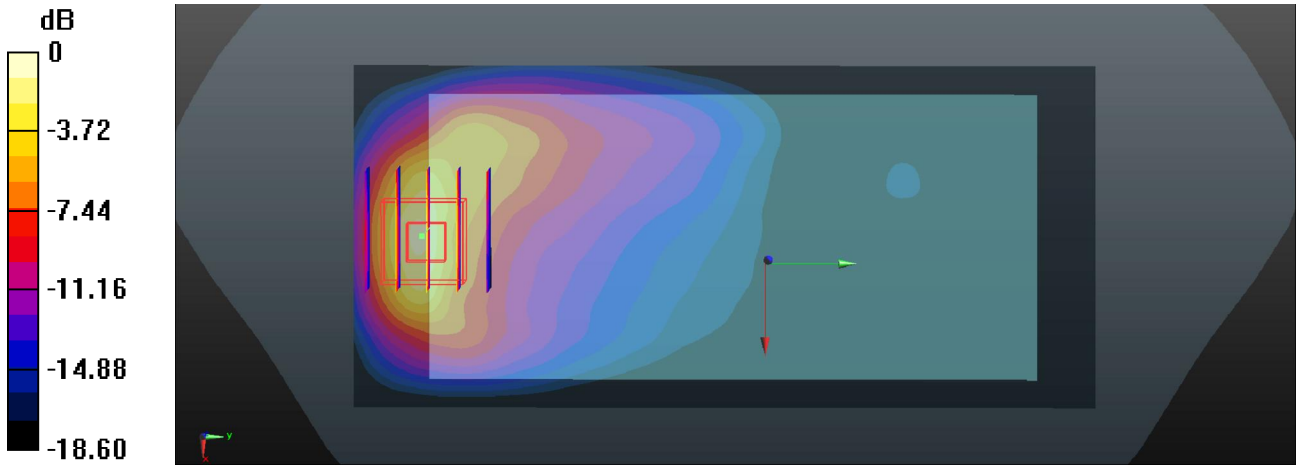
32_WCDMA Band IV_RMC 12.2Kbps_Back_5mm_Ch1513

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 = 1.517 S/m; ε_r = 53.682; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch1513/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.758 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.342 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.281 W/kg
Maximum value of SAR (measured) = 0.898 W/kg



0 dB = 0.898 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

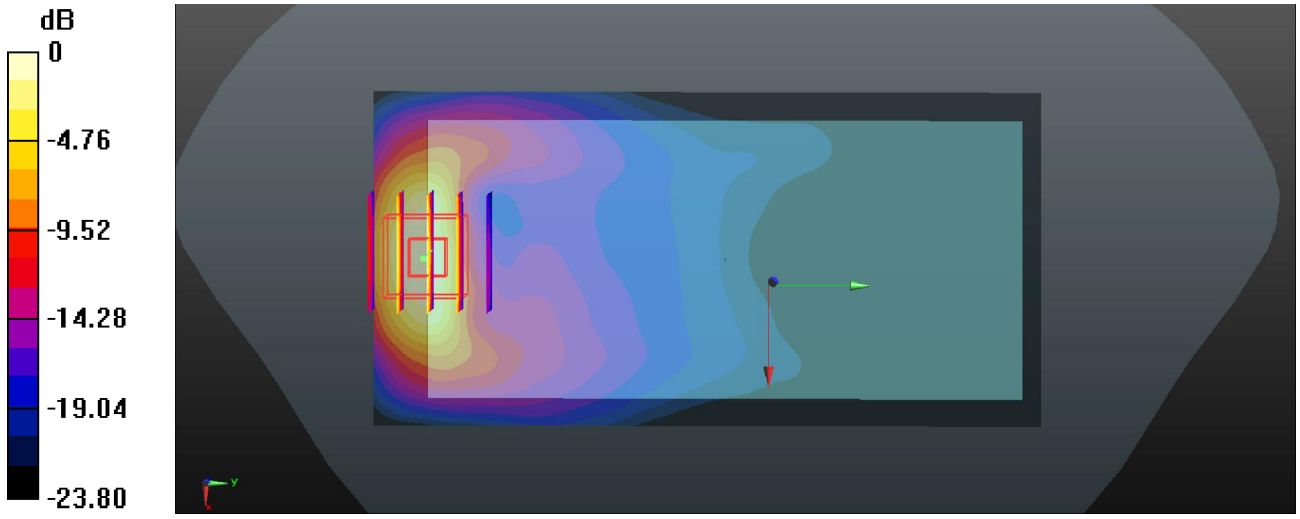
33_WCDMA Band II_RMC 12.2Kbps_Front_5mm_Ch9538

Communication System: UID 0, WCDMA (0); Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: MSL_1900_Medium parameters used: f = 1907.6 MHz; σ = 1.556 S/m; ε_r = 51.443; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch9538/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.926 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.951 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.257 W/kg
Maximum value of SAR (measured) = 0.877 W/kg



0 dB = 0.877 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

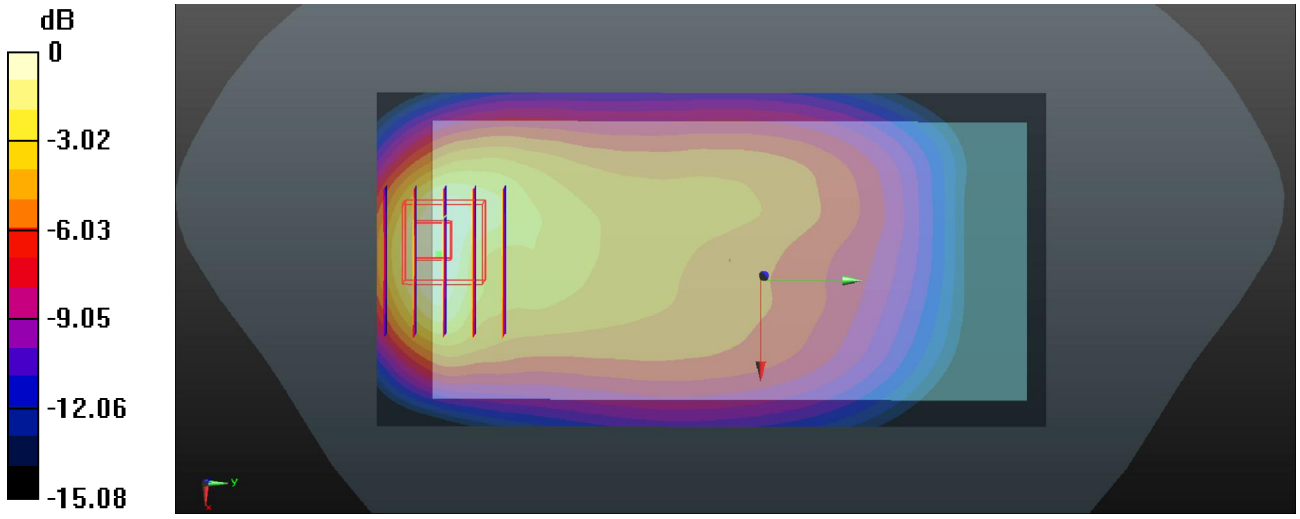
34_LTE Band 12_10M_QPSK_1RB_49offset_Back_5mm_Ch23095

Communication System: UID 0, FDD-LTE (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: MSL_750_Medium parameters used: f = 707.5 MHz; σ = 0.932 S/m; ε_r = 57.365; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.65, 10.65, 10.65); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch23095/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.990 W/kg

Ch23095/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.94 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.315 W/kg
Maximum value of SAR (measured) = 0.925 W/kg



0 dB = 0.925 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/5

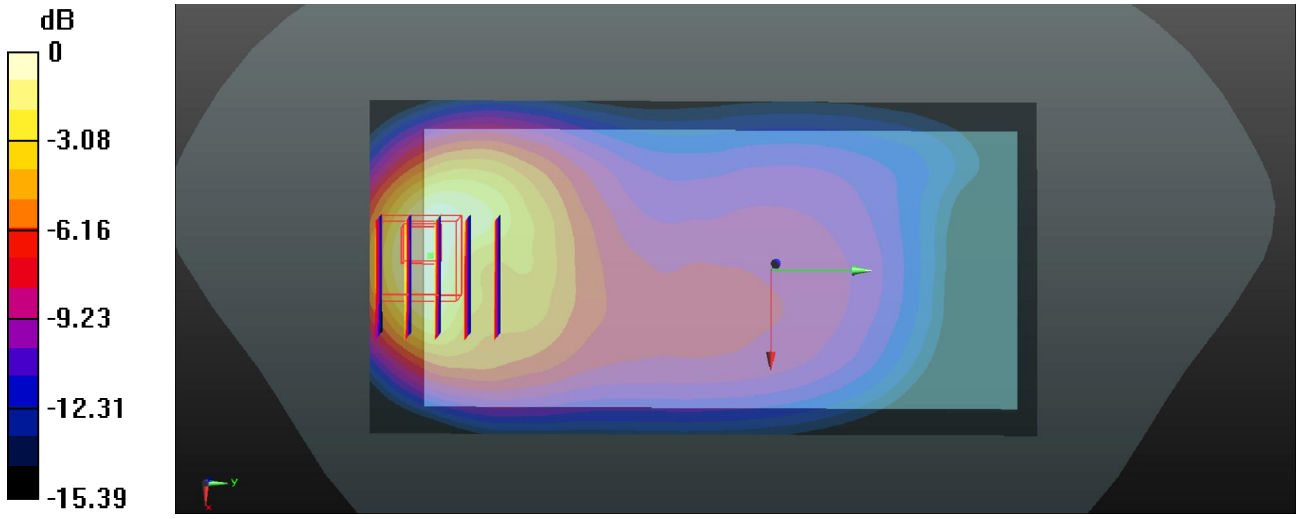
35_LTE Band 5_10M_QPSK_1RB_0offset_Back_5mm_Ch20525

Communication System: UID 0, FDD-LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: MSL_835_Medium parameters used: f = 836.5 MHz; σ = 0.997 S/m; ε_r = 55.195; ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(10.33, 10.33, 10.33); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20525/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.63 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.56 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.09 W/kg
SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.510 W/kg
Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.61 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

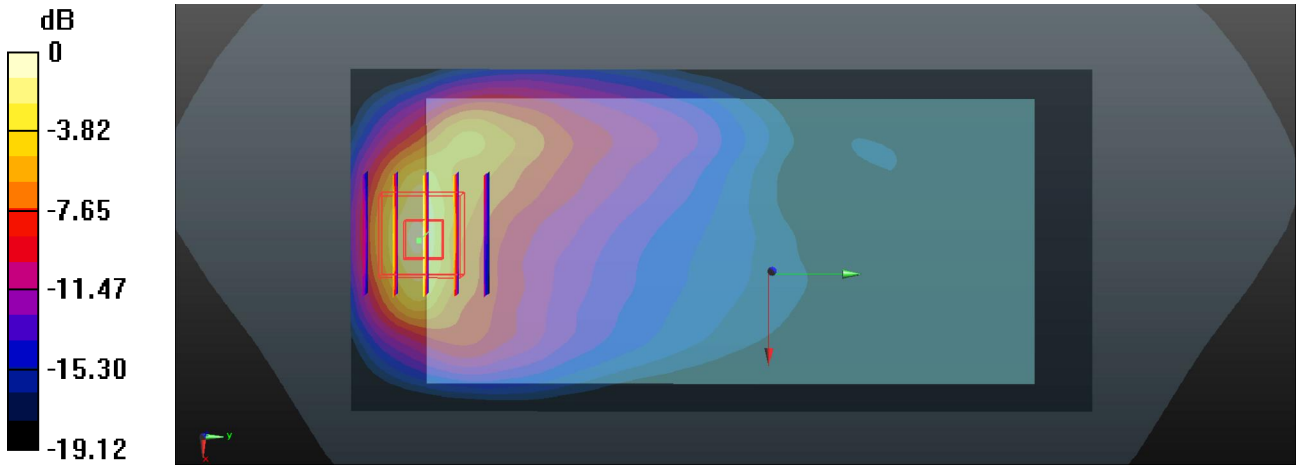
36_LTE Band 4_20M_QPSK_50RB_24offset_Back_5mm_Ch20175

Communication System: UID 0, FDD-LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: MSL_1750_2018/01/13 Medium parameters used: f = 1732.5 MHz; σ = 1.495 S/m; ε_r =53.753; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20175/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.985 W/kg

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.124 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.370 W/kg
Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

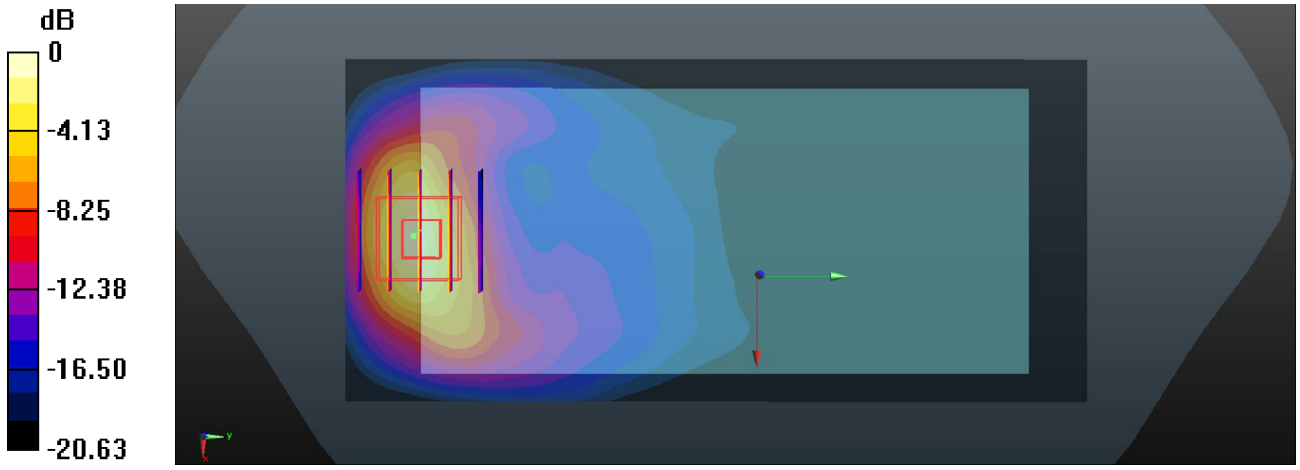
37_LTE Band 2_20M_QPSK_50RB_24offset_Front_5mm_Ch18900

Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900_2018/01/13 Medium parameters used: f = 1880 MHz; σ = 1.523 S/m; ε_r =51.52; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch18900/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.876 W/kg

Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.583 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.318 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/12

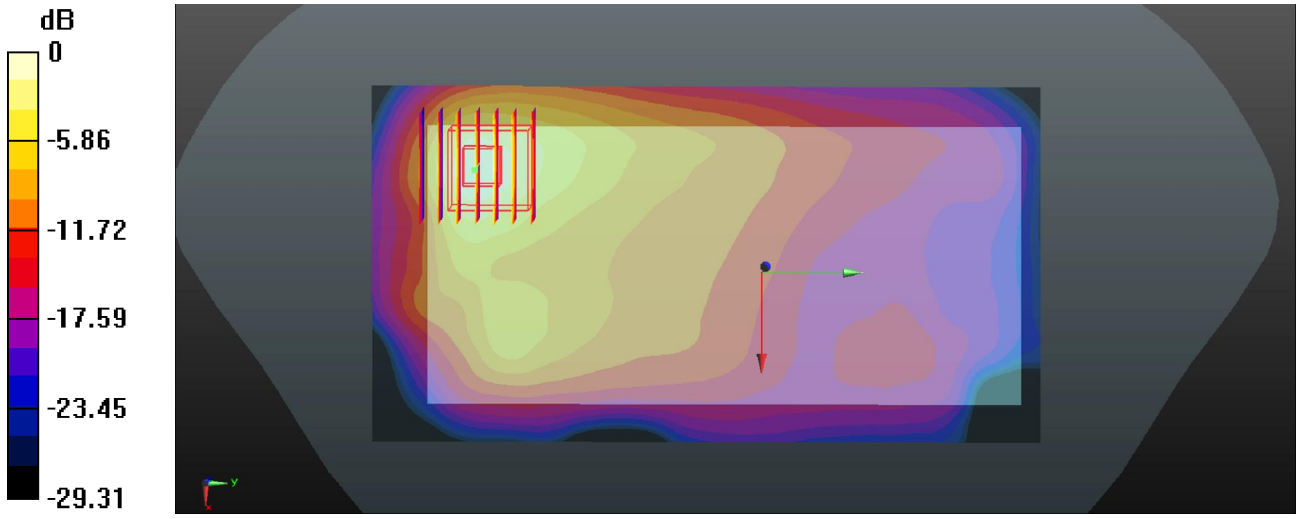
38_LTE Band 7_20M_QPSK_50RB_24offset_Front_5mm_Ch21350

Communication System: UID 0, FDD-LTE (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: MSL_2600_Medium parameters used: f = 2560 MHz; σ = 2.116 S/m; ε_r = 52.095; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(7.71, 7.71, 7.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch21350/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.963 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.647 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.554 W/kg; SAR(10 g) = 0.245 W/kg
Maximum value of SAR (measured) = 0.928 W/kg



0 dB = 0.928 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/12

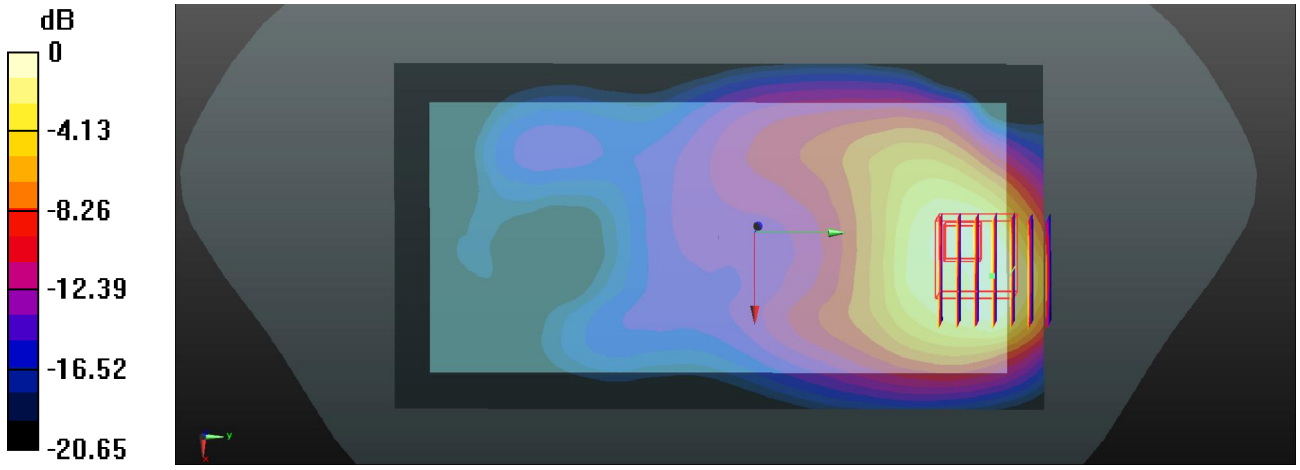
39_WLAN2.4GHz_802.11b 1Mbps_Back_5mm_Ch11

Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: MSL_2450_Medium parameters used: f = 2462 MHz; σ = 1.98 S/m; ε_r = 52.457; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(7.99, 7.99, 7.99); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch11/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.917 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.071 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.288 W/kg
Maximum value of SAR (measured) = 0.879 W/kg



0 dB = 0.879 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/11

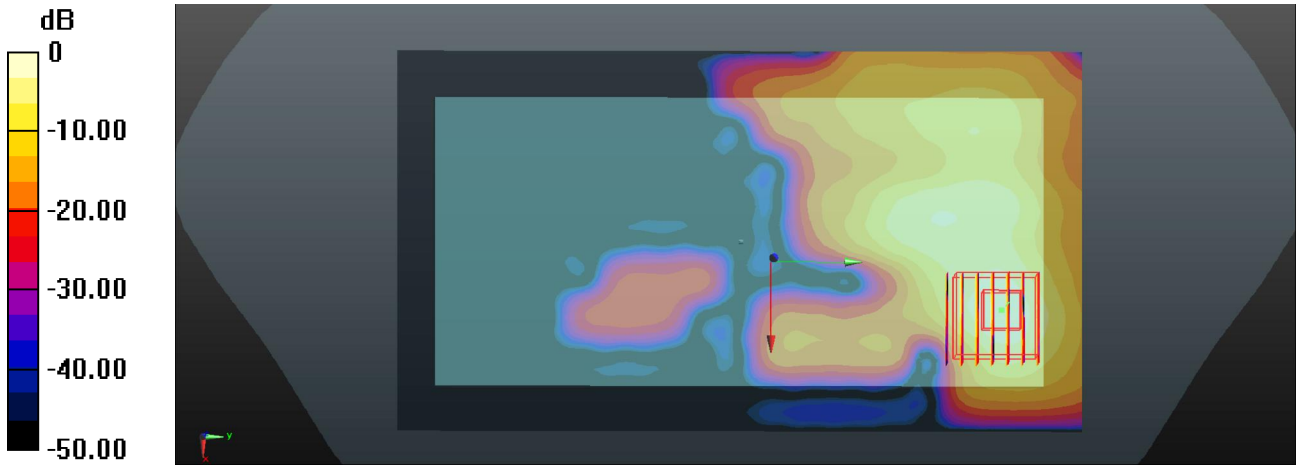
40_WLAN5.3GHz_802.11a 6Mbps_Back_5mm_Ch52

Communication System: UID 0, WIFI (0); Frequency: 5260 MHz;Duty Cycle: 1:1.047
Medium: MSL_5G_Medium parameters used: f = 5260 MHz; σ = 5.452 S/m; ε_r = 48.371; ρ = 1000kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.8, 4.8, 4.8); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch52/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.00 W/kg

Ch52/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.741 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.21 W/kg
SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.215 W/kg
Maximum value of SAR (measured) = 1.86 W/kg



0 dB = 1.86 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/11

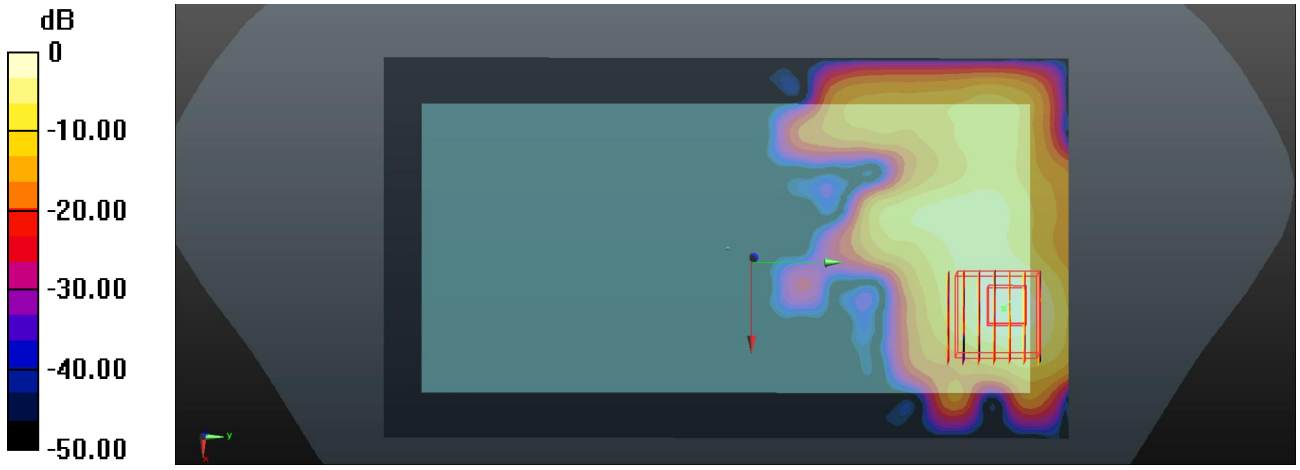
41_WLAN5.5GHz_802.11a 6Mbps_Back_5mm_Ch100

Communication System: UID 0, WIFI (0); Frequency: 5500 MHz;Duty Cycle: 1:1.047
Medium: MSL_5G_Medium parameters used: f = 5500 MHz; σ = 5.806 S/m; ε_r = 47.837;
ρ = 1000kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature ：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.12, 4.12, 4.12); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch100/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.902 W/kg

Ch100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.204 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.355 W/kg; SAR(10 g) = 0.095 W/kg
Maximum value of SAR (measured) = 0.902 W/kg



0 dB = 0.902 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/12

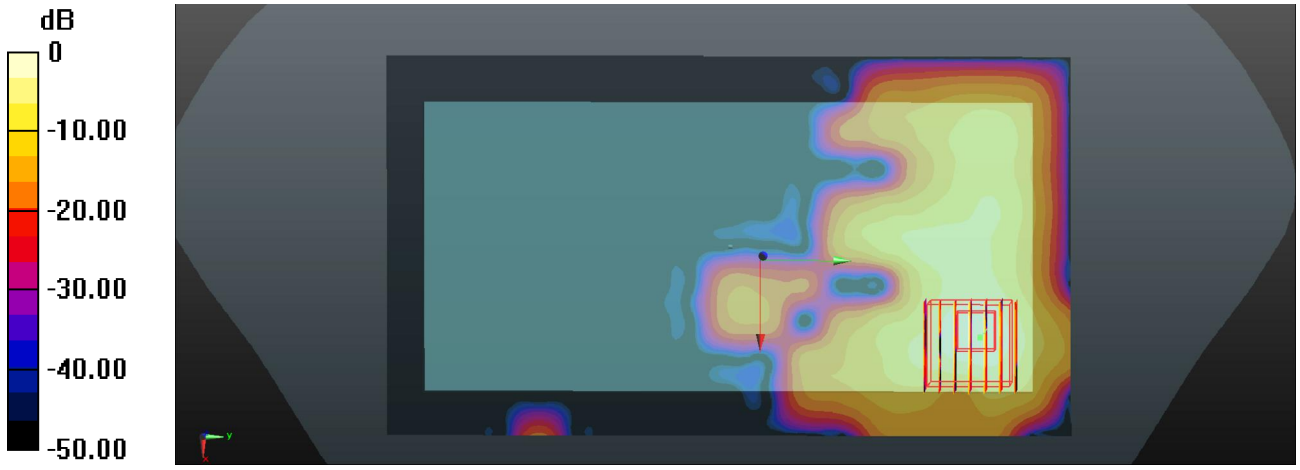
42_WLAN5.8GHz_802.11a 6Mbps_Back_5mm_Ch149

Communication System: UID 0, WIFI (0); Frequency: 5745 MHz;Duty Cycle: 1:1.047
Medium: MSL_5G_Medium parameters used: f = 5745 MHz; σ = 6.162 S/m; ε_r = 47.294;
ρ = 1000kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature ：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.23, 4.23, 4.23); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch149/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

Ch149/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.294 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.109 W/kg
Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/17

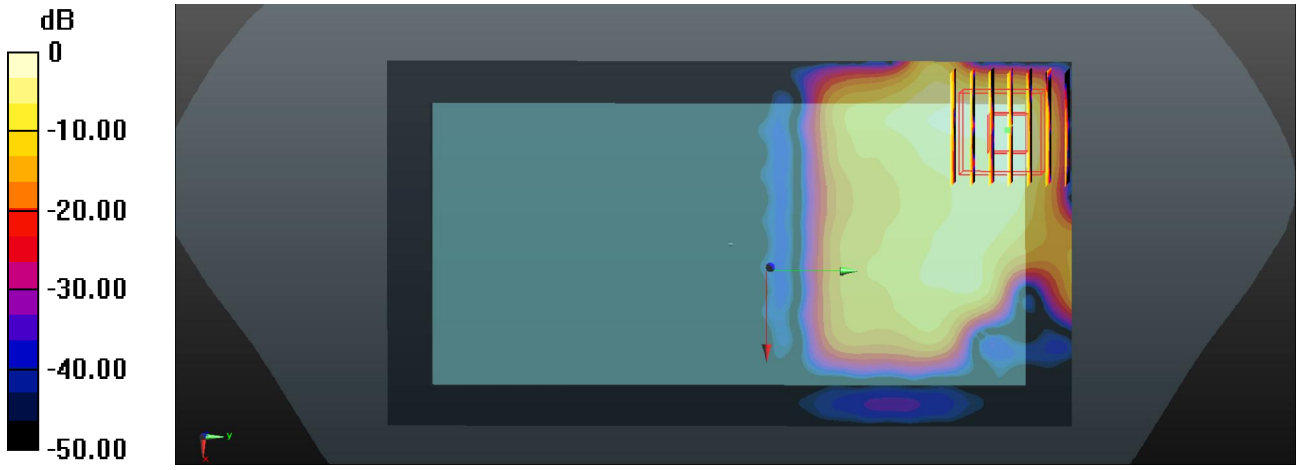
43_Bluetooth_1Mbps_Front_5mm_Ch0

Communication System: UID 0, Bluetooth (0); Frequency: 2402 MHz;Duty Cycle: 1:1.3
Medium: MSL_2450_Medium parameters used: f = 2402 MHz; σ = 1.885 S/m; ε_r = 51.834; ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(7.68, 7.68, 7.68); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch0/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0868 W/kg

Ch0/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.0970 W/kg
SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.014 W/kg
Maximum value of SAR (measured) = 0.0702 W/kg



0 dB = 0.0702 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

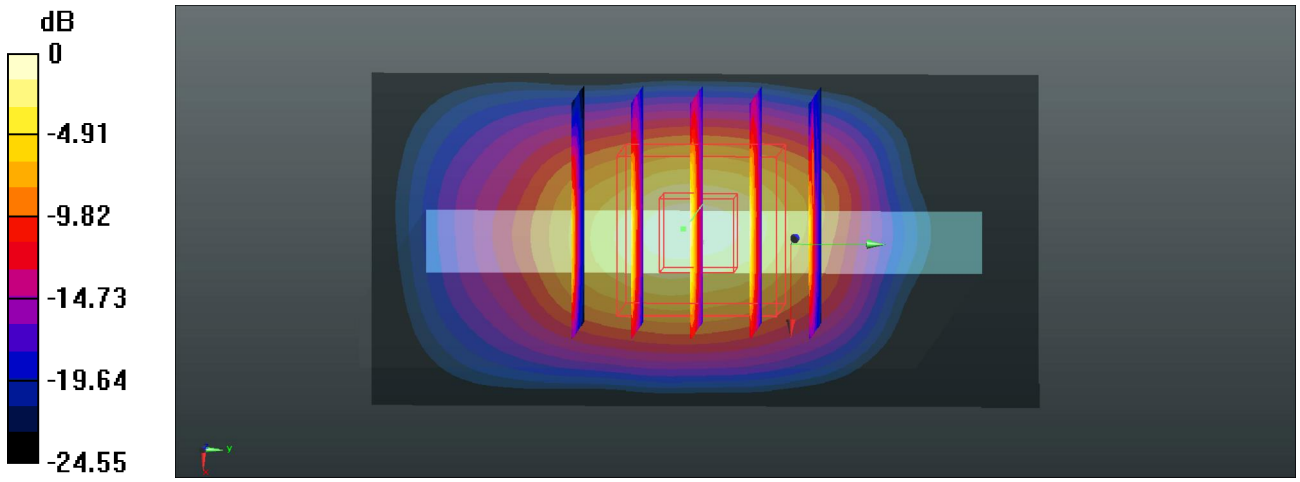
44_GSM1900_GPRS 4 Tx slots_Bottom side_0mm_Ch512

Communication System: UID 0, GPRS (GMSK 4 Tx slot) (0); Frequency: 1850.2 MHz;Duty Cycle:1:2.08
Medium: MSL_1900_Medium parameters used: f = 1850.2 MHz; σ = 1.491 S/m; ε_r = 51.605;
ρ =1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch512/Area Scan (31x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 7.27 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 61.05 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 10.5 W/kg
SAR(1 g) = 4.68 W/kg; SAR(10 g) = 1.94 W/kg
Maximum value of SAR (measured) = 8.14 W/kg



0 dB = 8.14 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

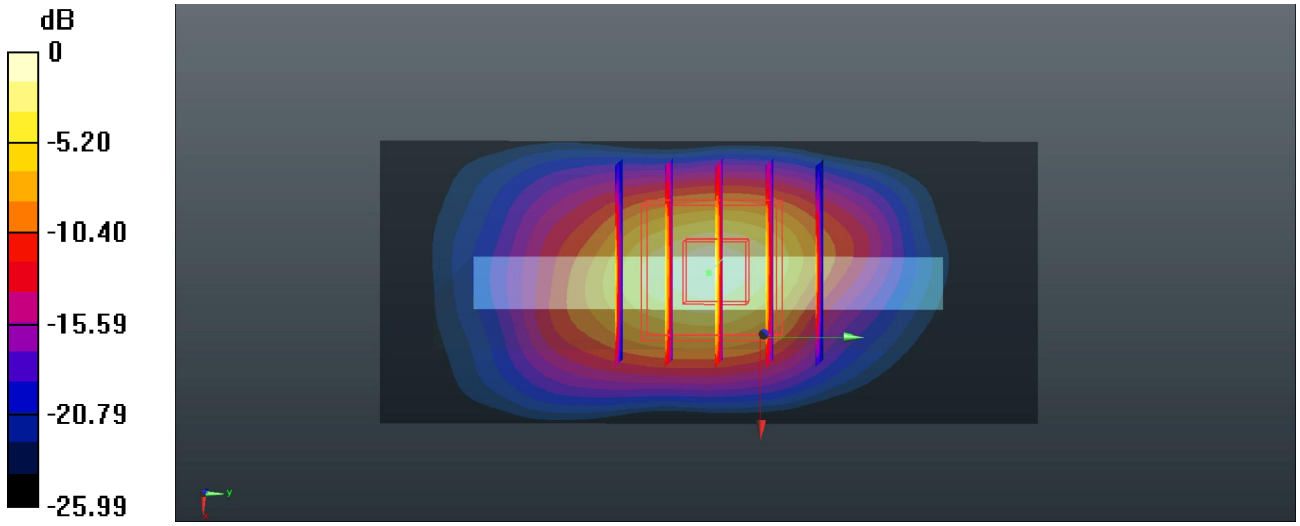
45_WCDMA Band IV_RMC 12.2Kbps_Bottom side_0mm_Ch1513

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 = 1.517 S/m; ε_r = 53.682; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch1513/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 10.7 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 67.50 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 13.4 W/kg
SAR(1 g) = 5.94 W/kg; SAR(10 g) = 2.47 W/kg
Maximum value of SAR (measured) = 10.8 W/kg



0 dB = 10.8 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

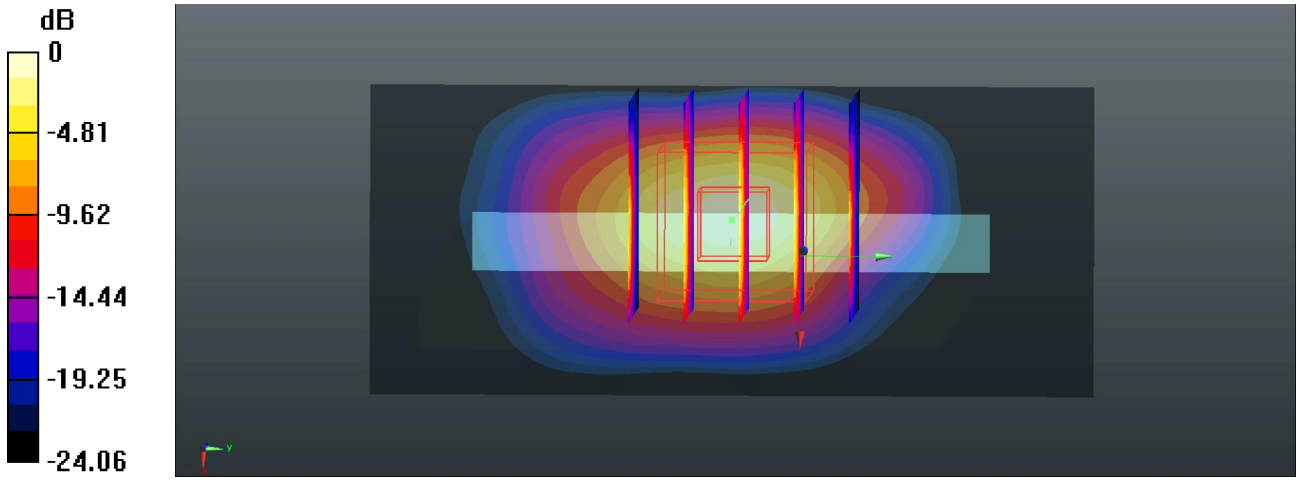
46_WCDMA Band II_RMC 12.2Kbps_Bottom side_0mm_Ch9262

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 = 1.494 S/m; ε_r = 51.598; ρ =1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch9262/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 7.45 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.82 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 9.85 W/kg
SAR(1 g) = 4.29 W/kg; SAR(10 g) = 1.77 W/kg
Maximum value of SAR (measured) = 7.66 W/kg



0 dB = 7.66 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

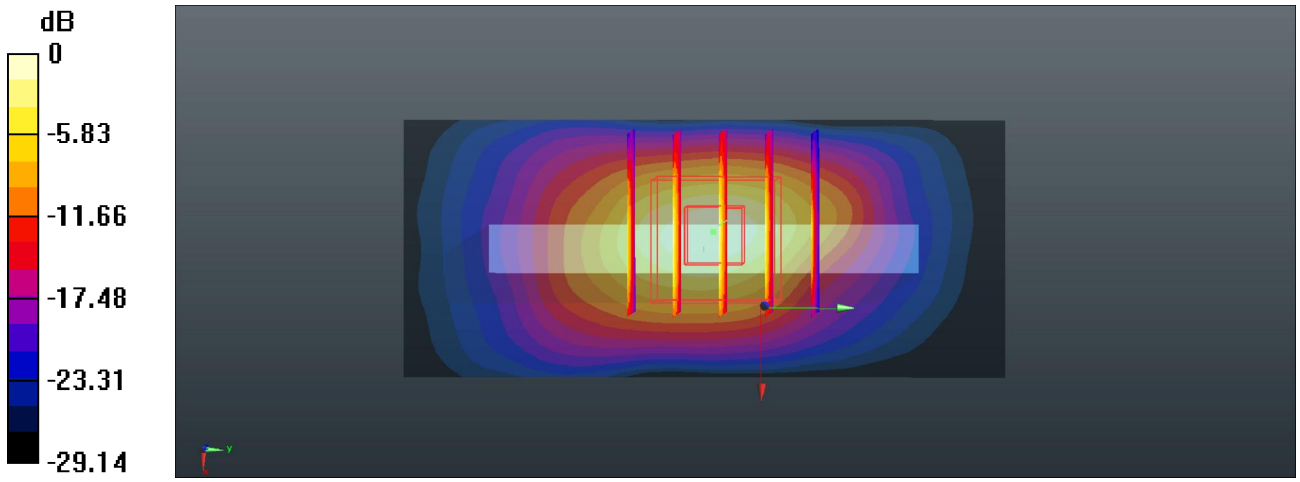
47_LTE Band 4_20M_QPSK_1RB_0offset_Bottom side_0mm_Ch20175

Communication System: UID 0, FDD-LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: MSL_1750_Medium parameters used: f = 1732.5 MHz; σ = 1.495 S/m; ε_r = 53.753; ρ =1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.71, 8.71, 8.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch20175/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 9.82 W/kg

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 65.84 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 12.4 W/kg
SAR(1 g) = 5.68 W/kg; SAR(10 g) = 2.41 W/kg
Maximum value of SAR (measured) = 9.51 W/kg



0 dB = 9.51 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/13

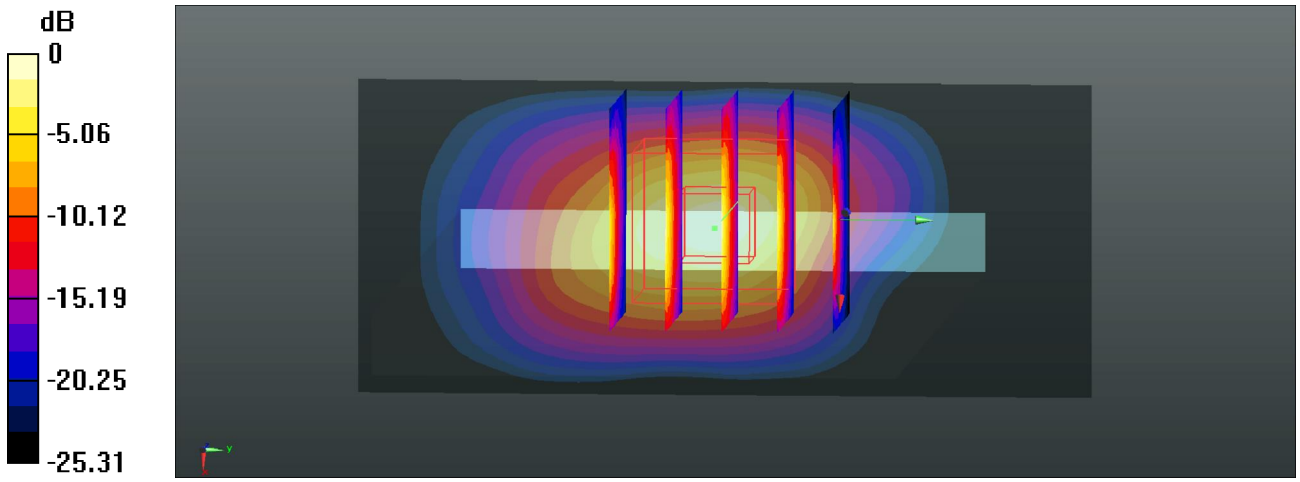
48_LTE Band 2_20M_QPSK_100RB_0offset_Bottom side_0mm_Ch18900

Communication System: UID 0, FDD-LTE (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900_Medium parameters used: f = 1880 MHz; σ = 1.523 S/m; ε_r = 51.52;
ρ = 1000kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature ：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(8.3, 8.3, 8.3); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch18900/Area Scan (31x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 9.11 W/kg

Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 64.16 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 12.9 W/kg
SAR(1 g) = 5.44 W/kg; SAR(10 g) = 2.2 W/kg
Maximum value of SAR (measured) = 10.2 W/kg



0 dB = 10.2 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/12

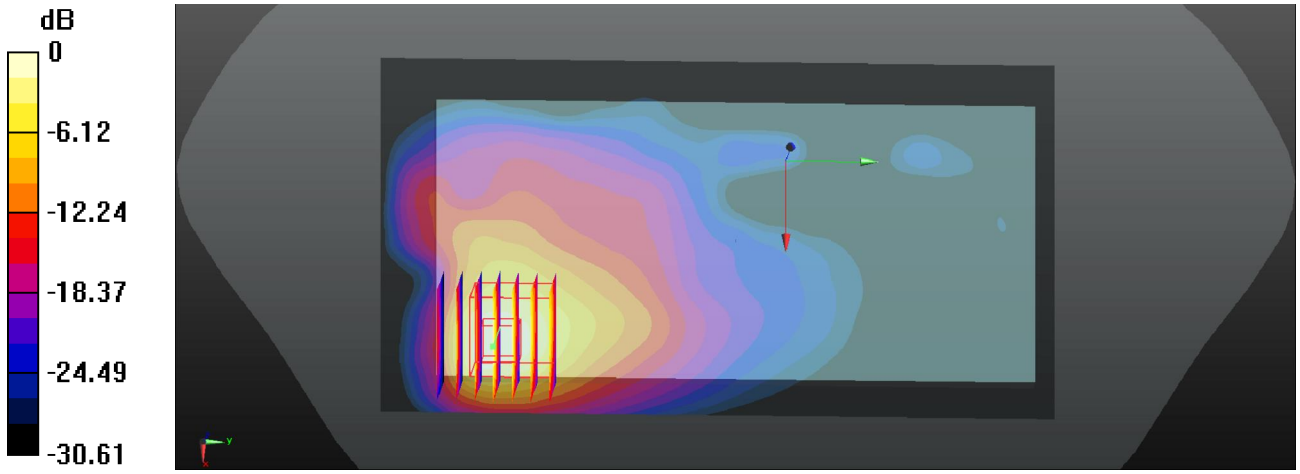
49_LTE Band 7_20M_QPSK_50RB_24offset_Back_0mm_Ch21350

Communication System: UID 0, FDD-LTE (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: MSL_2600_Medium parameters used: f = 2560 MHz; σ = 2.116 S/m; ε_r = 52.095; ρ = 1000kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature ：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3935; ConvF(7.71, 7.71, 7.71); Calibrated: 2017/12/14;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2017/10/24
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch21350/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 12.4 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.419 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 14.3 W/kg
SAR(1 g) = 6.12 W/kg; SAR(10 g) = 2.51 W/kg
Maximum value of SAR (measured) = 11.1 W/kg



0 dB = 11.1 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/11

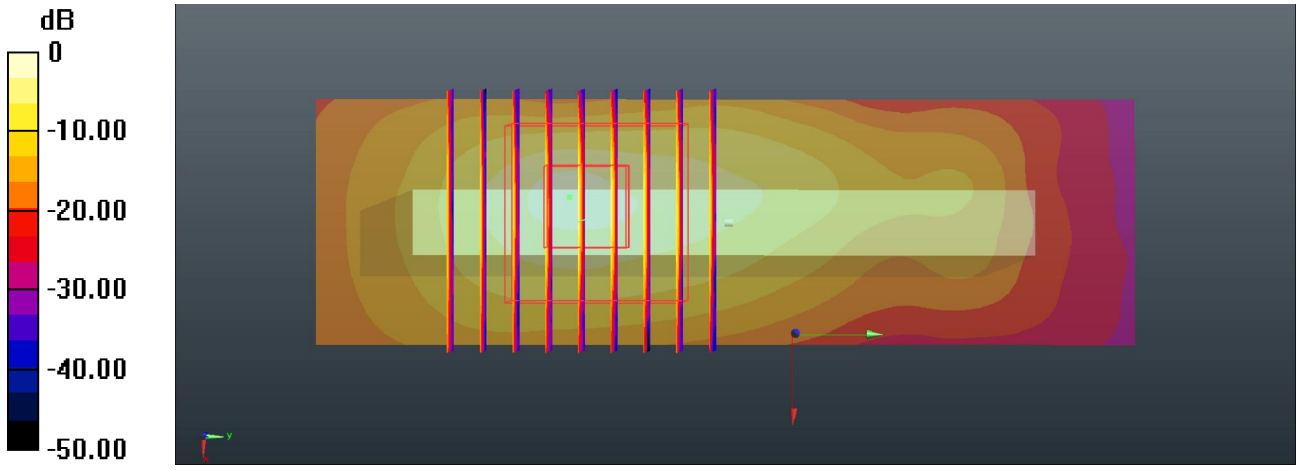
50_WLAN5.3GHz_802.11a 6Mbps_Top side_0mm_Ch52

Communication System: UID 0, 802.11a (0); Frequency: 5260 MHz;Duty Cycle: 1:1.047
Medium: MSL_5G_Medium parameters used: f = 5260 MHz; σ = 5.452 S/m; ε_r = 48.371; ρ= 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature ：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.8, 4.8, 4.8); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch52/Area Scan (31x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 6.72 W/kg

Ch52/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 4.111 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 19.5 W/kg
SAR(1 g) = 3.35 W/kg; SAR(10 g) = 0.781 W/kg
Maximum value of SAR (measured) = 9.45 W/kg



0 dB = 9.45 W/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018/1/11

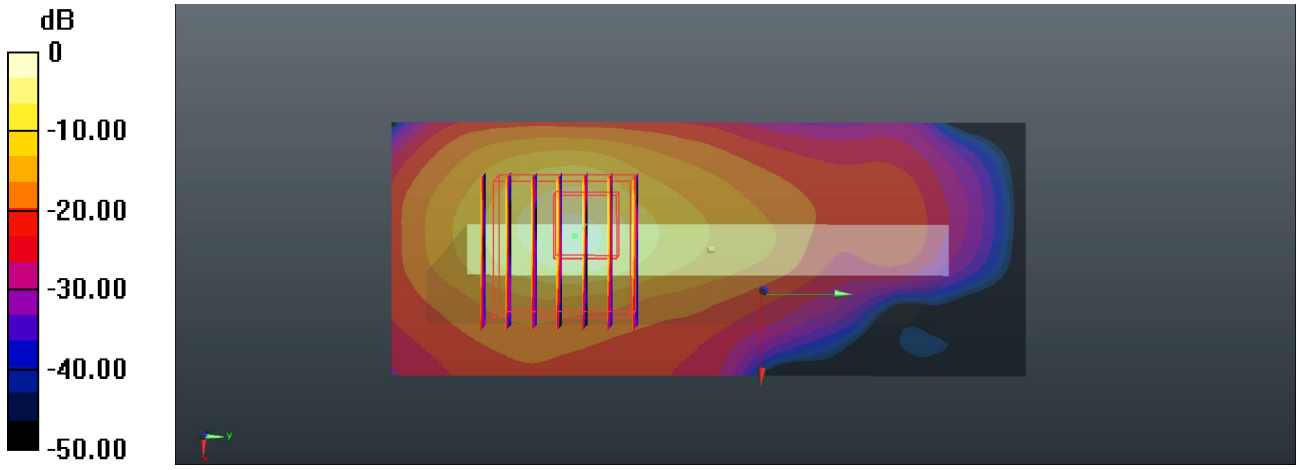
51_WLAN5.5GHz_802.11a 6Mbps_Top side_0mm_Ch100

Communication System: UID 0, WIFI (0); Frequency: 5500 MHz;Duty Cycle: 1:1.047
Medium: MSL_5G_Medium parameters used: f = 5500 MHz; σ = 5.806 S/m; ε_r = 47.837;
ρ = 1000kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature ：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3911; ConvF(4.12, 4.12, 4.12); Calibrated: 2017/11/28;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017/12/19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7372)

Ch100/Area Scan (41x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 5.15 W/kg

Ch100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.2730 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 14.1 W/kg
SAR(1 g) = 2.34 W/kg; SAR(10 g) = 0.460 W/kg
Maximum value of SAR (measured) = 7.85 W/kg



0 dB = 7.85 W/kg