Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.22

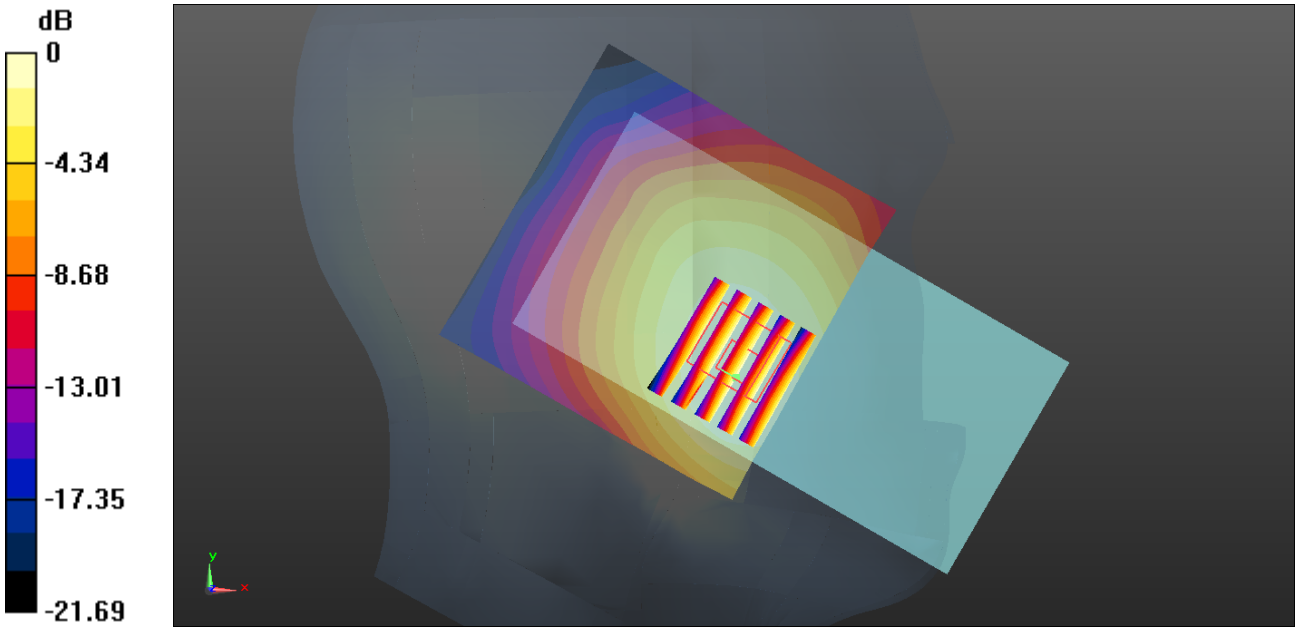
01_GSM850_GPRS 4 Tx slots_Left Cheek_0mm_Ch128

Communication System: UID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 824.2 MHz;Duty Cycle: 1:2.08
Medium: HSL_835 Medium parameters used: f = 824.2 MHz; σ = 0.898 S/m; ε_r = 42.313; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3088; ConvF(6.13, 6.13, 6.13); Calibrated: 2018.7.19;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch128/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.206 W/kg

Ch128/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.63 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.229 W/kg
SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.143 W/kg
Maximum value of SAR (measured) = 0.204 W/kg



0 dB = 0.206 W/kg = -6.86 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.16

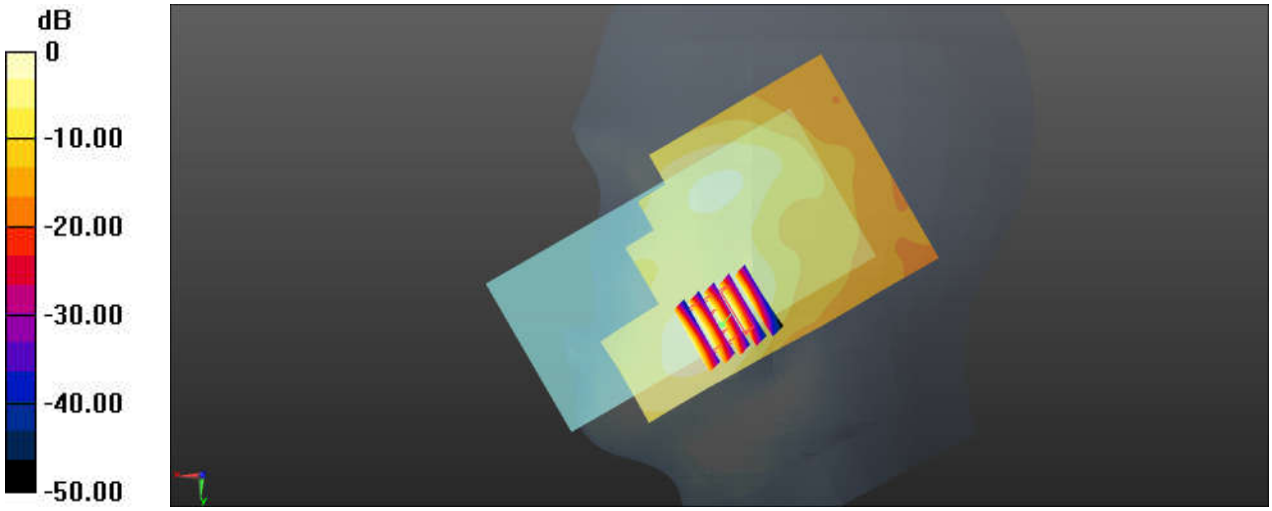
02_GSM1900_GPRS (4 Tx slots)_Right Cheek_0mm_Ch661

Communication System: UID 0, PCS (0); Frequency: 1880 MHz;Duty Cycle: 1:2.08
Medium: HSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.442 S/m; ε_r = 39.228; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3088; ConvF(5.07, 5.07, 5.07); Calibrated: 2018.7.19;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch661/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0943 W/kg

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.373 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.123 W/kg
SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.048 W/kg
Maximum value of SAR (measured) = 0.0933 W/kg



0 dB = 0.0943 W/kg = -10.25 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.22

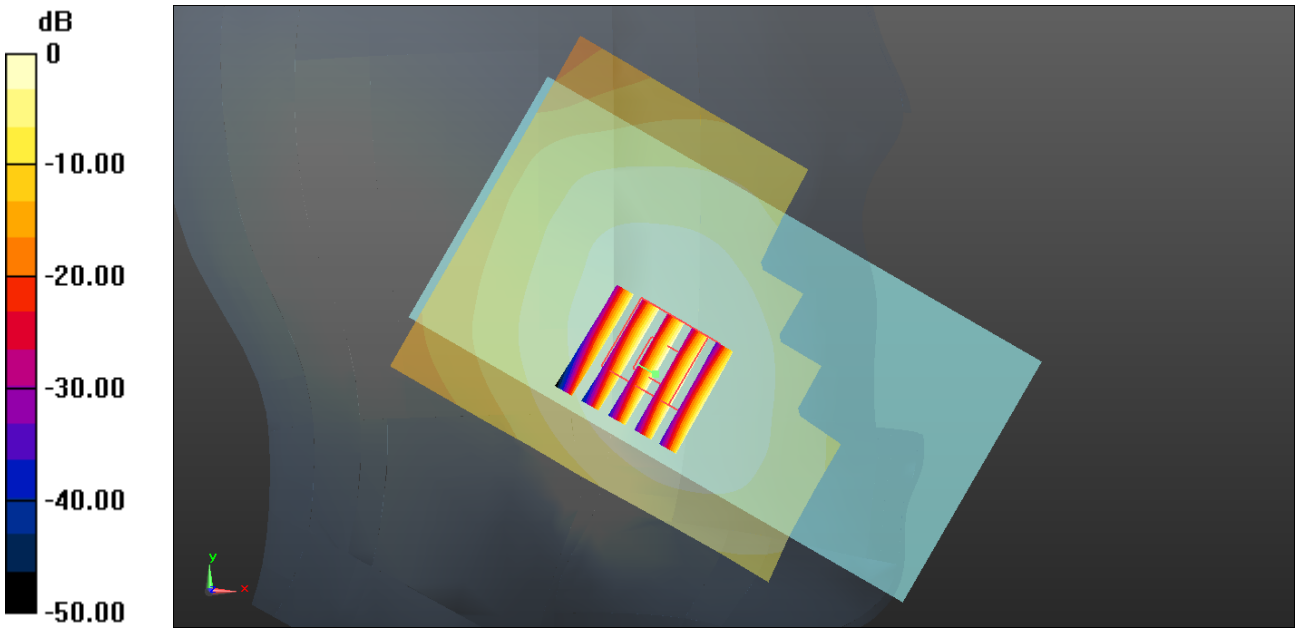
03_WCDMA V_RMC12.2Kbps_Left Cheek_0mm_Ch4132

Communication System: UID 0, UMTS (0); Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: f = 826.4 MHz; σ = 0.9 S/m; ε_r = 42.289; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3088; ConvF(6.13, 6.13, 6.13); Calibrated: 2018.7.19;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch4132/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.350 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.16 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.388 W/kg
SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.241 W/kg
Maximum value of SAR (measured) = 0.341 W/kg



0 dB = 0.350 W/kg = -4.56 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.14

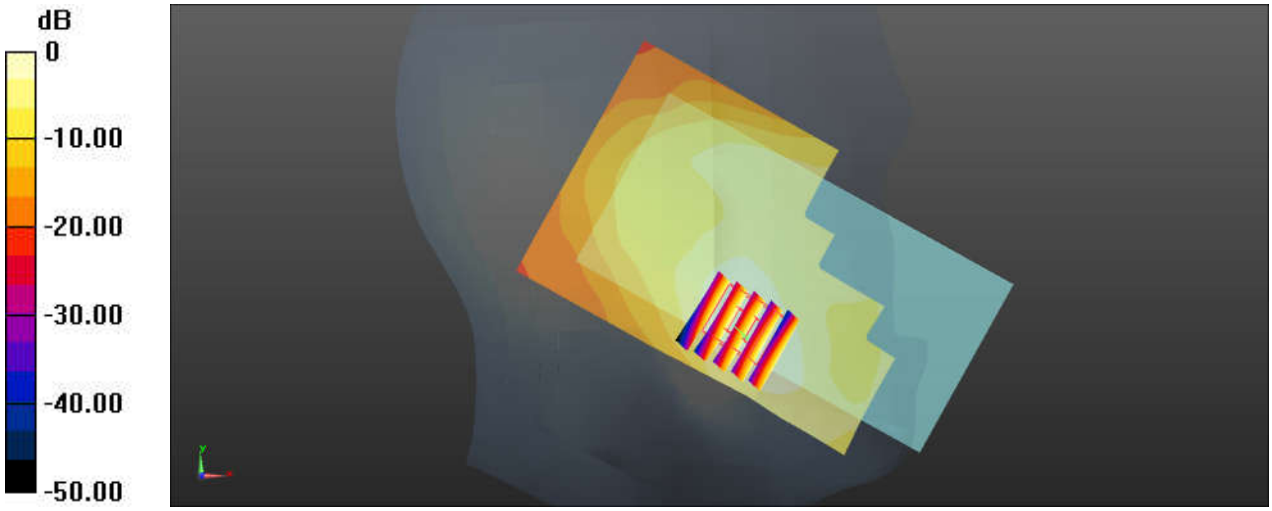
04_WCDMA IV_RMC 12.2Kbps_Left Cheek_0mm_Ch1513

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 = 1.407 S/m; ε_r = 41.467; ρ = 1000kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3088; ConvF(6.13, 6.13, 6.13); Calibrated: 2018.7.19;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch1513/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.174 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.22 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.217 W/kg
SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.094 W/kg
Maximum value of SAR (measured) = 0.165 W/kg



0 dB = 0.174 W/kg = -7.59 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.16

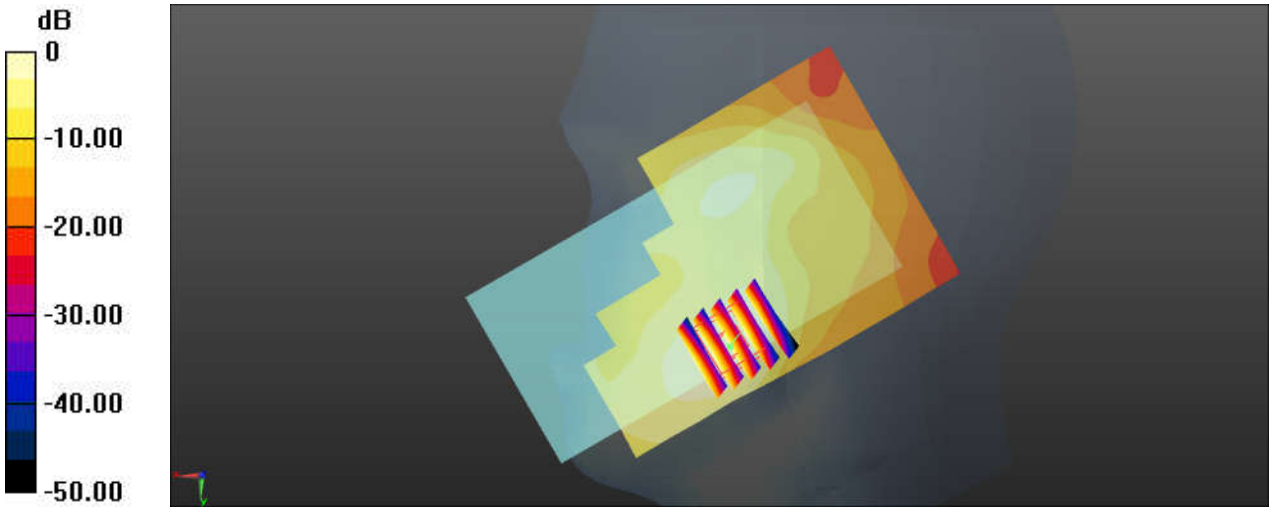
05_WCDMA II_RMC 12.2Kbps_Right Cheek_0mm_Ch9538

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 = 1.473 S/m; ε_r = 39.109; ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3088; ConvF(5.07, 5.07, 5.07); Calibrated: 2018.7.19;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch9538/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.165 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.99 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.218 W/kg
SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.083 W/kg
Maximum value of SAR (measured) = 0.167 W/kg



0 dB = 0.165 W/kg = -7.83 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.22

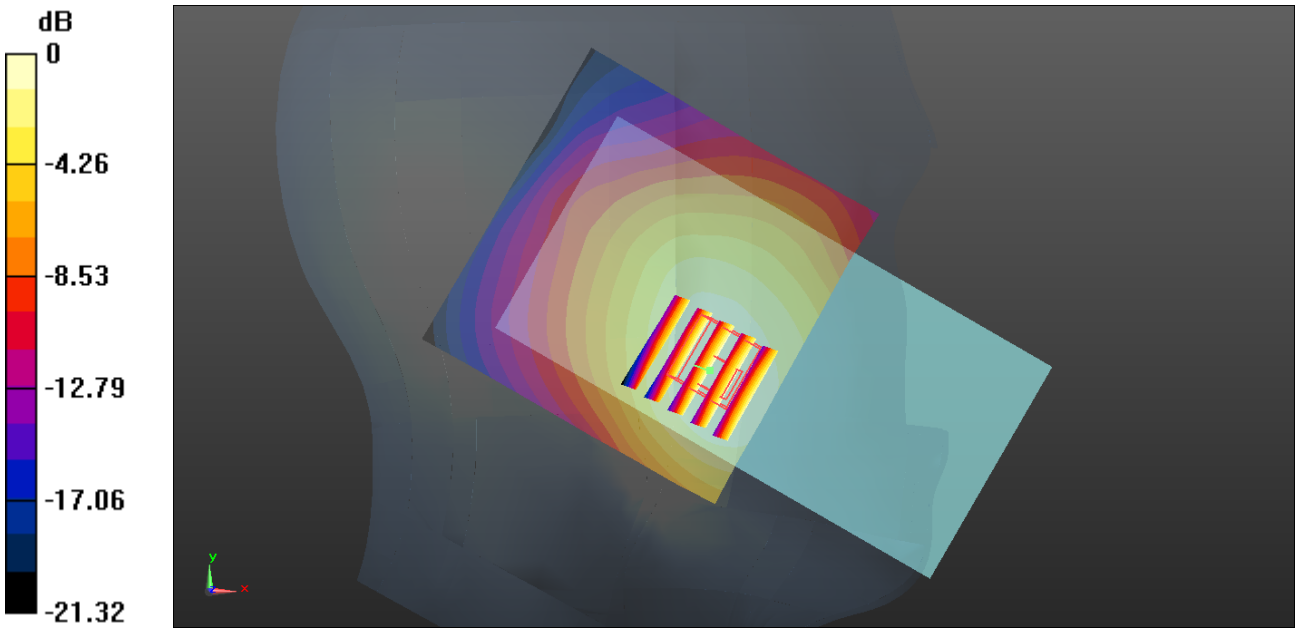
06_LTE Band 5_10M_QPSK_1RB_25Offset_Left Cheek_0mm_Ch20525

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 = 0.909 S/m; ε_r = 42.162; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3088; ConvF(6.13, 6.13, 6.13); Calibrated: 2018.7.19;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch20525/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.273 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.81 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.310 W/kg
SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.187 W/kg
Maximum value of SAR (measured) = 0.266 W/kg



0 dB = 0.273 W/kg = -5.64 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.20

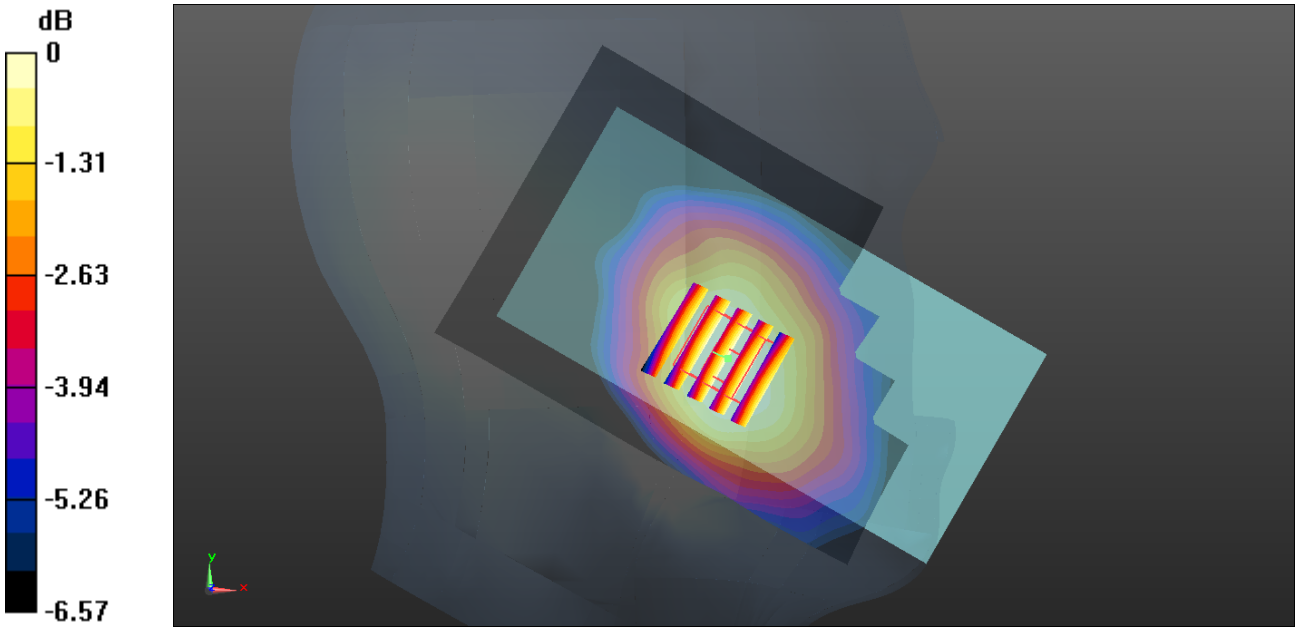
07_LTE Band 12_10M_QPSK_1RB_25Offset_Left Cheek_0mm_Ch23095

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 = 0.879 S/m; ε_r = 43.676; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(9.92, 9.92, 9.92); Calibrated: 2018.5.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch23095/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.204 W/kg

Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.85 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.207 W/kg
SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.156 W/kg
Maximum value of SAR (measured) = 0.196 W/kg



0 dB = 0.196 W/kg = -7.08 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.14

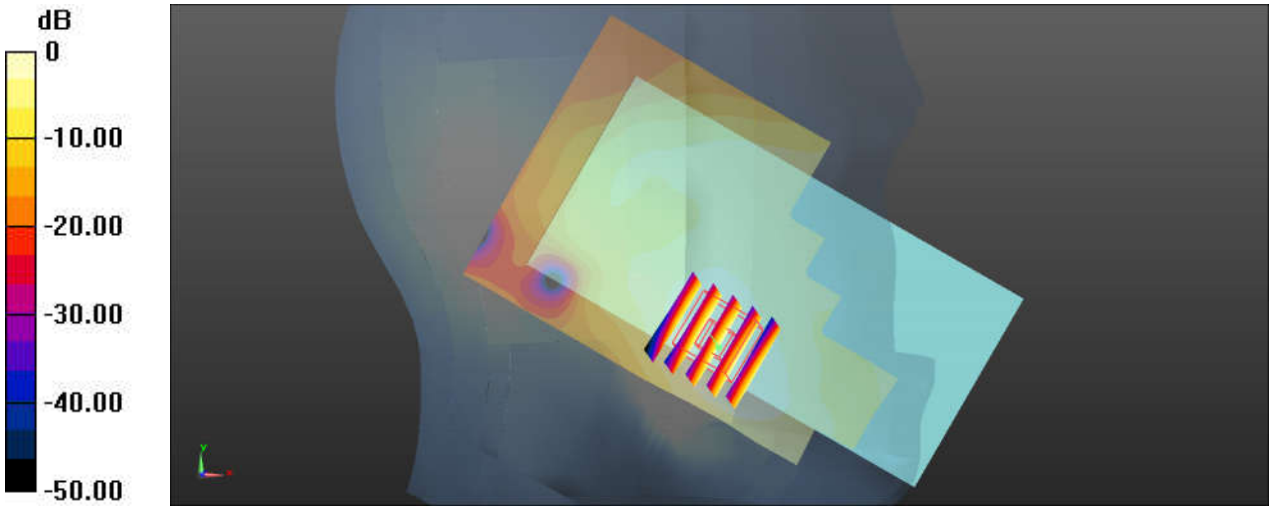
08_LTE Band 66_20M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch132572

Communication System: UID 0, LTE-FDD (0); Frequency: 1770 MHz;Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: f = 1770 MHz; σ = 1.422 S/m; ε_r = 41.412; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3088; ConvF(6.13, 6.13, 6.13); Calibrated: 2018.7.19;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch132572/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.177 W/kg

Ch132572/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.14 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.228 W/kg
SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.097 W/kg
Maximum value of SAR (measured) = 0.178 W/kg



0 dB = 0.177 W/kg = -7.52 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.16

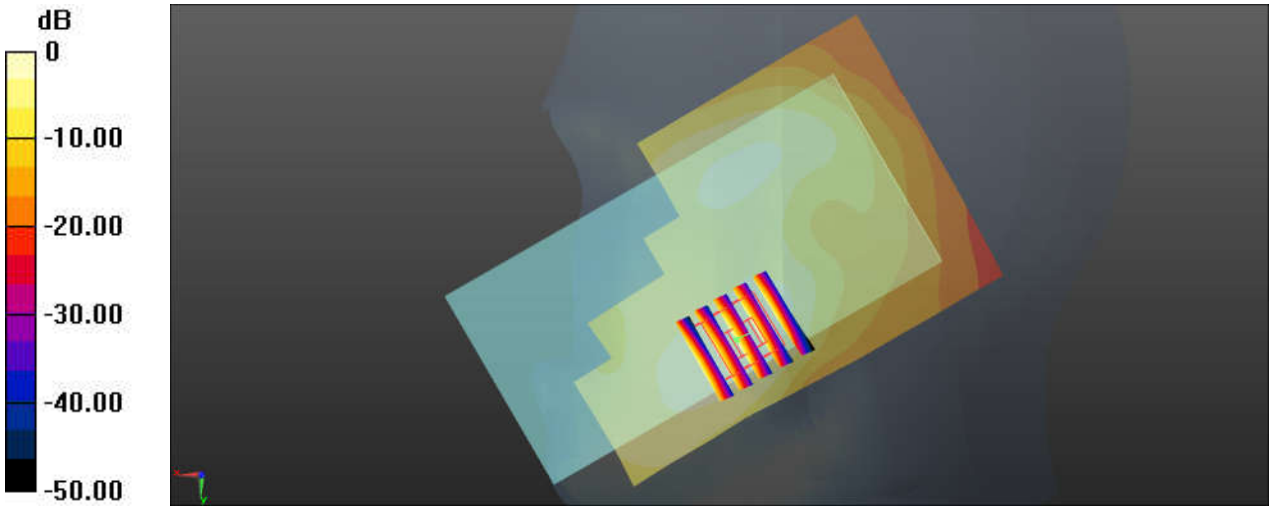
09_LTE Band 2_20M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch18900

Communication System: UID 0, LTE-FDD (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.442 S/m; ε_r = 39.228; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3088; ConvF(5.07, 5.07, 5.07); Calibrated: 2018.7.19;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch18900/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.130 W/kg

Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.705 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.173 W/kg
SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.128 W/kg



0 dB = 0.130 W/kg = -8.86 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.15

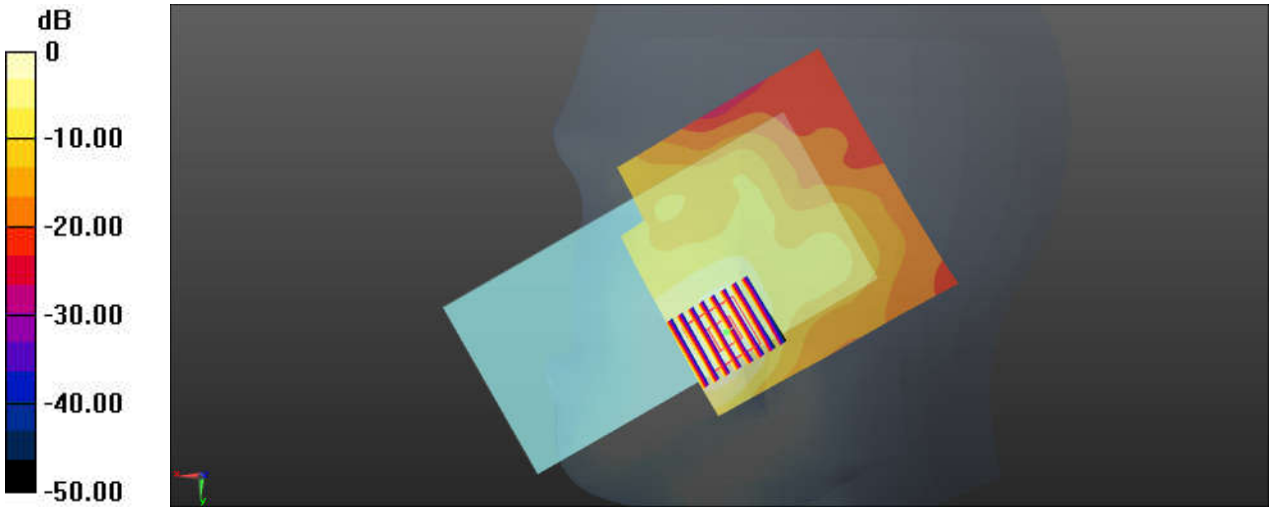
10_LTE Band 7_20M_QPSK_1RB_99Offset_Right Cheek_0mm_Ch21350

Communication System: UID 0, LTE-FDD (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: HSL_2600 Medium parameters used: f = 2560 MHz; σ = 1.973 S/m; ε_r = 38.542; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3088; ConvF(4.45, 4.45, 4.45); Calibrated: 2018.7.19
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1479
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch21350/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.552 W/kg

Ch21350/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.94 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.786 W/kg
SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.227 W/kg
Maximum value of SAR (measured) = 0.538 W/kg



0 dB = 0.552 W/kg = -2.58 dBW/kg

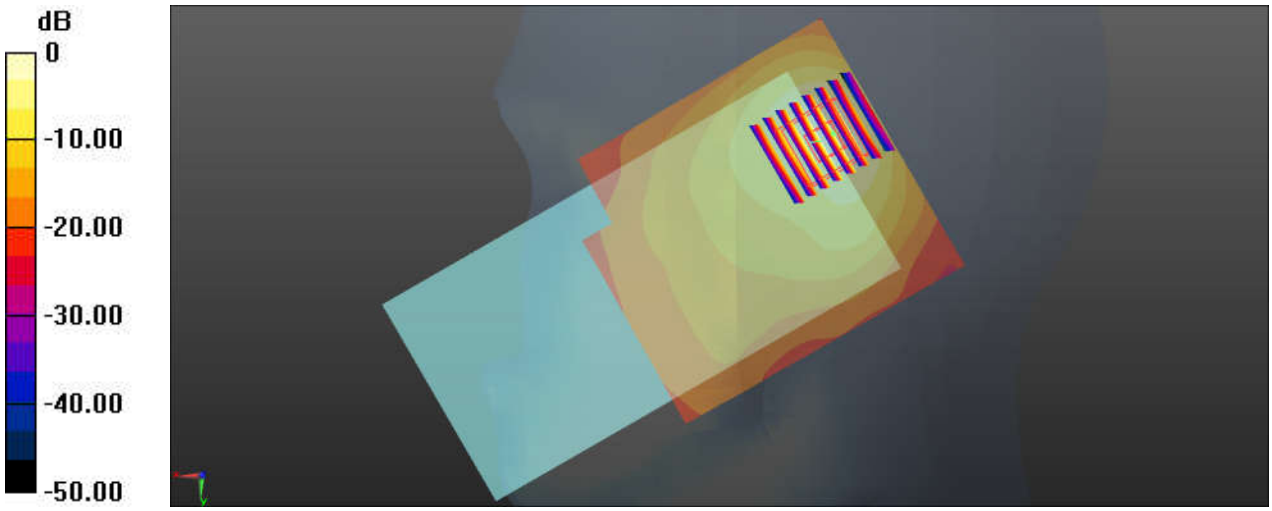
11_ WLAN2.4GHz_802.11b 1Mbps_Right Tilted_0mm_Ch1

Communication System: UID 0, 802.11b (0); Frequency: 2412 MHz;Duty Cycle: 1:1.028
Medium: HSL_2450 Medium parameters used: f = 2412 MHz; σ = 1.818 S/m; ε_r = 39.719; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.08, 7.08, 7.08); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch1/Area Scan (81x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.05 W/kg

Ch1/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.43 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.50 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.433 W/kg
Maximum value of SAR (measured) = 1.35 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

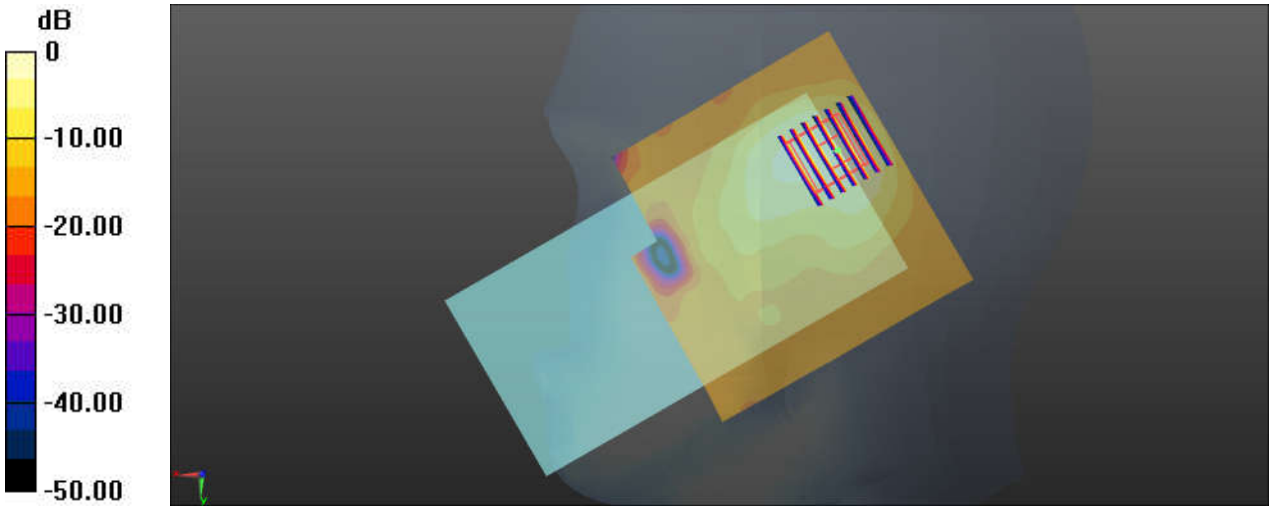
12_ Bluetooth _DH5 1Mbps_Right Cheek_0mm_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.298
Medium: HSL_2450 Medium parameters used: f = 2441 MHz; σ = 1.854 S/m; ε_r = 39.608; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.08, 7.08, 7.08); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch39/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.212 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.51 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.340 W/kg
SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.077 W/kg
Maximum value of SAR (measured) = 0.203 W/kg



0 dB = 0.212 W/kg = -6.74 dBW/kg

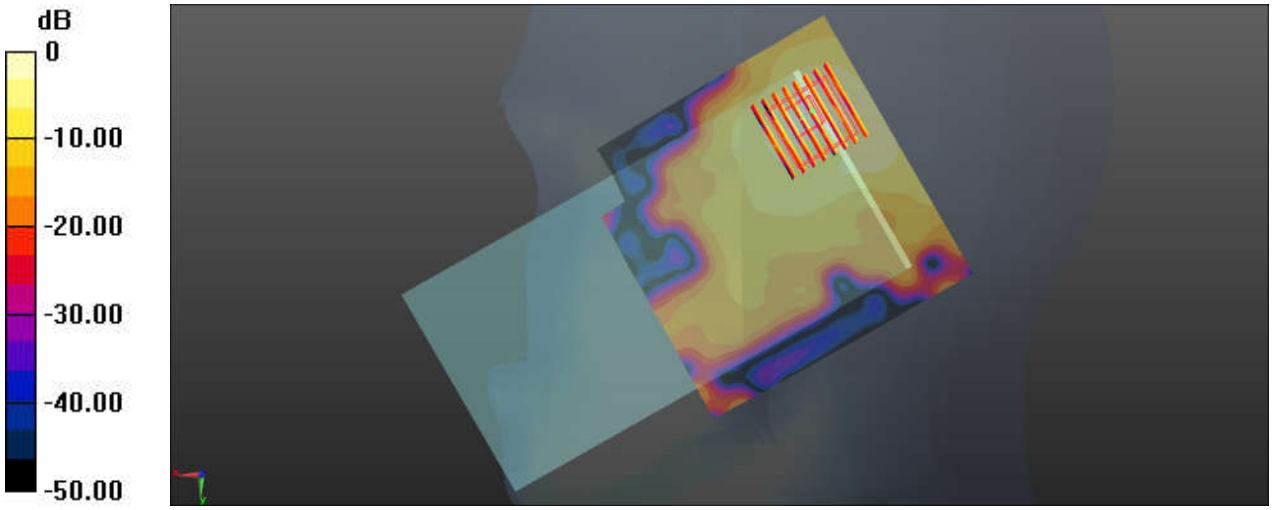
13_WLAN5GHz_802.11n-HT40 MCS0_Right Tilted_0mm_Ch54

Communication System: UID 0, 802.11n (0); Frequency: 5270 MHz;Duty Cycle: 1:1.148
Medium: HSL_5000 Medium parameters used: f = 5270 MHz; σ = 4.856 S/m; ε_r = 37.079; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(5.2, 5.2, 5.2); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch54/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.689 W/kg

Ch54/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.89 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 3.19 W/kg
SAR(1 g) = 0.684 W/kg; SAR(10 g) = 0.192 W/kg
Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 0.689 W/kg = -1.62 dBW/kg

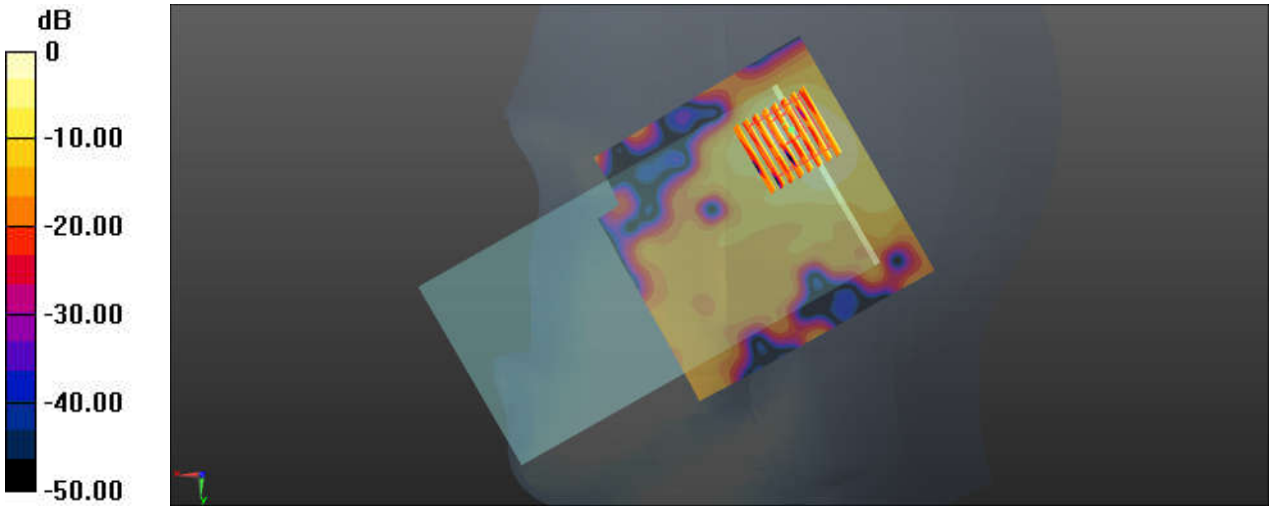
14_WLAN5GHz_802.11n-HT40 MCS0_Right Tilted_0mm_Ch134

Communication System: UID 0, 802.11n (0); Frequency: 5670 MHz;Duty Cycle: 1:1.148
Medium: HSL_5000 Medium parameters used: f = 5670 MHz; σ = 5.273 S/m; ε_r = 36.498; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.94, 4.94, 4.94); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch134/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.813 W/kg

Ch134/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.32 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 2.35 W/kg
SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.150 W/kg
Maximum value of SAR (measured) = 0.799 W/kg



0 dB = 0.813 W/kg = -0.90 dBW/kg

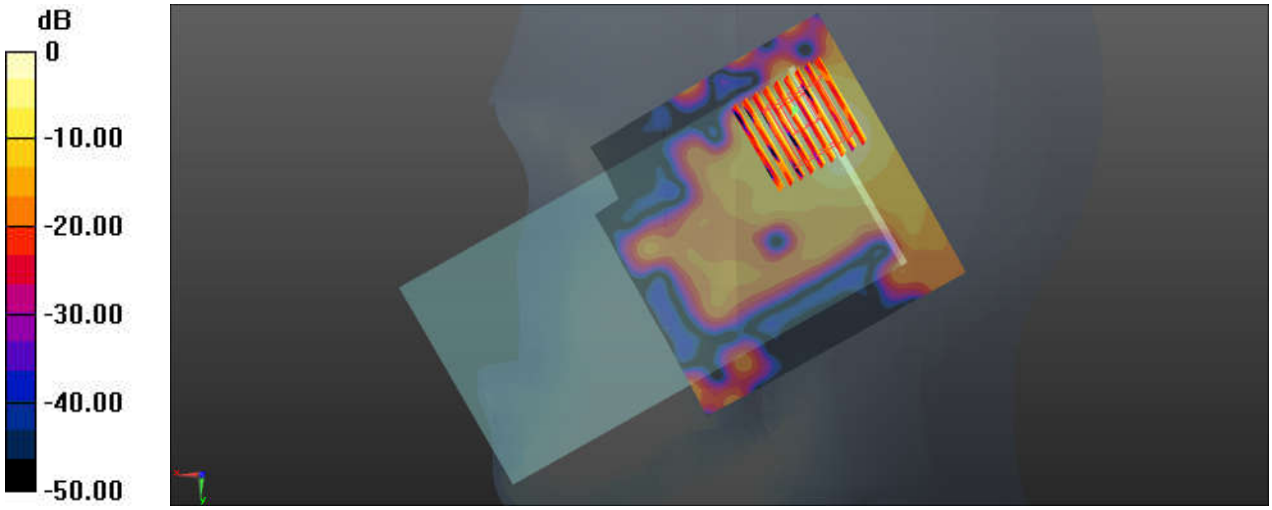
15_WLAN5GHz_802.11n-HT40 MCS0_Right Tilted_0mm_Ch151

Communication System: UID 0, 802.11n (0); Frequency: 5755 MHz;Duty Cycle: 1:1.148
Medium: HSL_5000 Medium parameters used: f = 5755 MHz; σ = 5.368 S/m; ε_r = 36.372; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(5.23, 5.23, 5.23); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch151/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.943 W/kg

Ch151/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 14.19 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.49 W/kg
SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.159 W/kg
Maximum value of SAR (measured) = 0.949 W/kg



0 dB = 0.943 W/kg = -0.25 dBW/kg

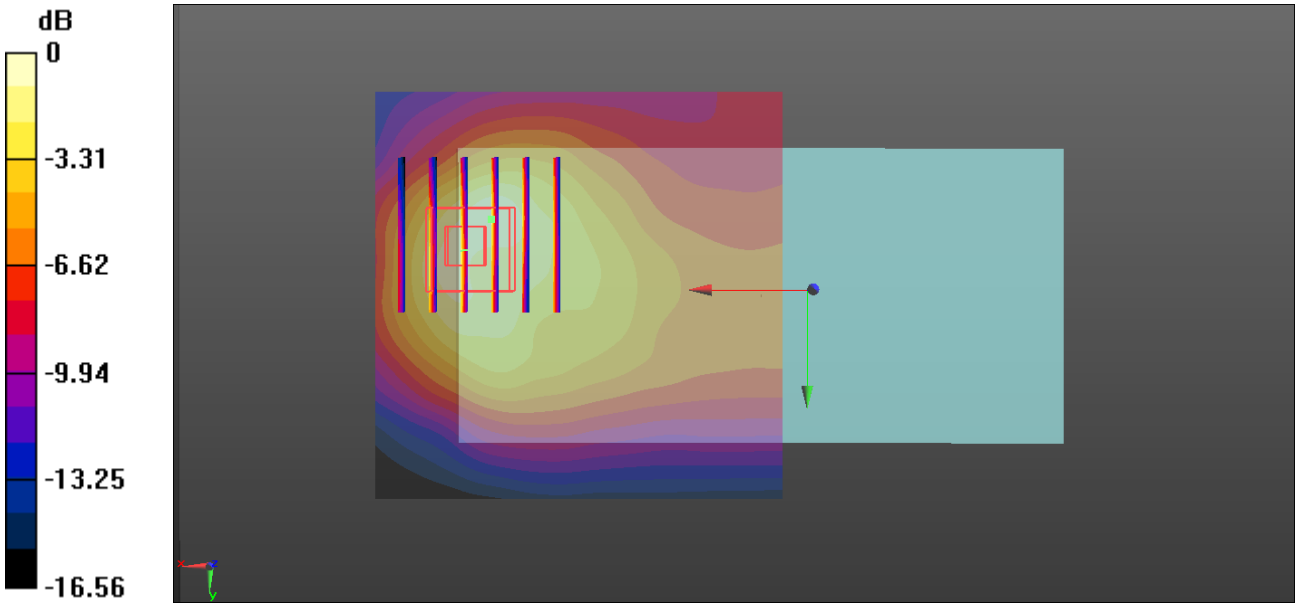
16_GSM850_GPRS 4 Tx slots_Back_5mm_Ch251

Communication System: UID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 848.8 MHz;Duty Cycle: 1:2.08
Medium: MSL_835 Medium parameters used: f = 848.8 MHz; σ = 0.999 S/m; ε_r = 56.388; ρ = 1000 kg/m^3
Ambient Temperature：23.Ŵ ℃; Liquid Temperature：22.ŷ ℃

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 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch251/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.50 W/kg

Ch251/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 37.61 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.05 W/kg
SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.746 W/kg
Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.20

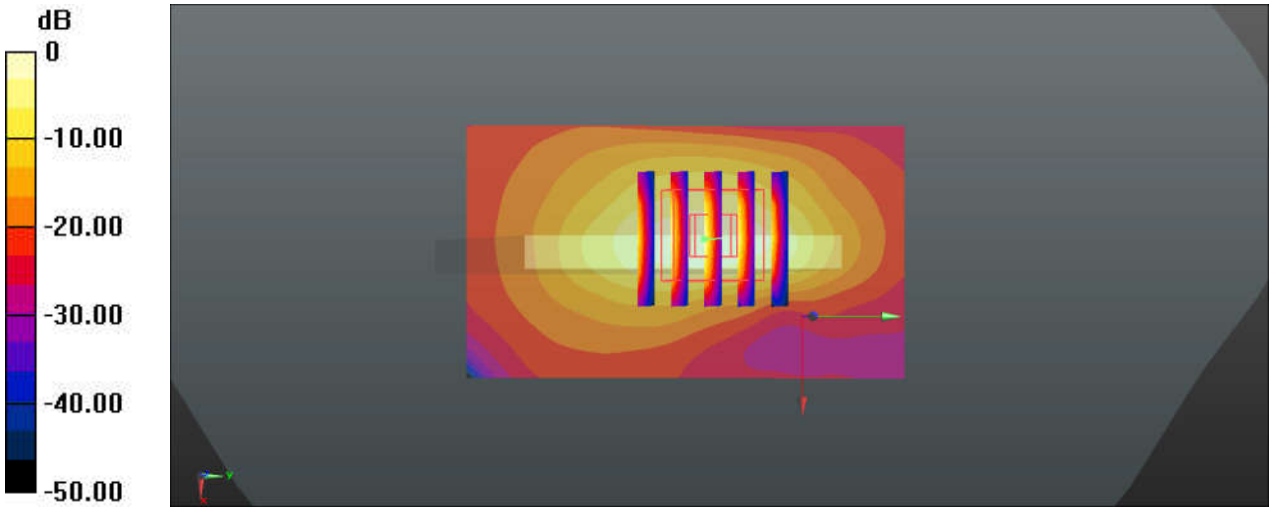
17_GSM1900_GPRS (4 Tx slots)_Bottom Side_5mm_Hotspot On_Ch512

Communication System: UID 0, PCS (0); Frequency: 1850.2 MHz;Duty Cycle: 1:2.08
Medium: MSL_1900 Medium parameters used: f = 1850.2 MHz; σ = 1.482 S/m; ε_r = 53.974; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.07, 7.07, 7.07); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch512/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.31 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.58 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.96 W/kg
SAR(1 g) = 0.979 W/kg; SAR(10 g) = 0.442 W/kg
Maximum value of SAR (measured) = 1.29 W/kg



0 dB = 1.31 W/kg = 1.17 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.22

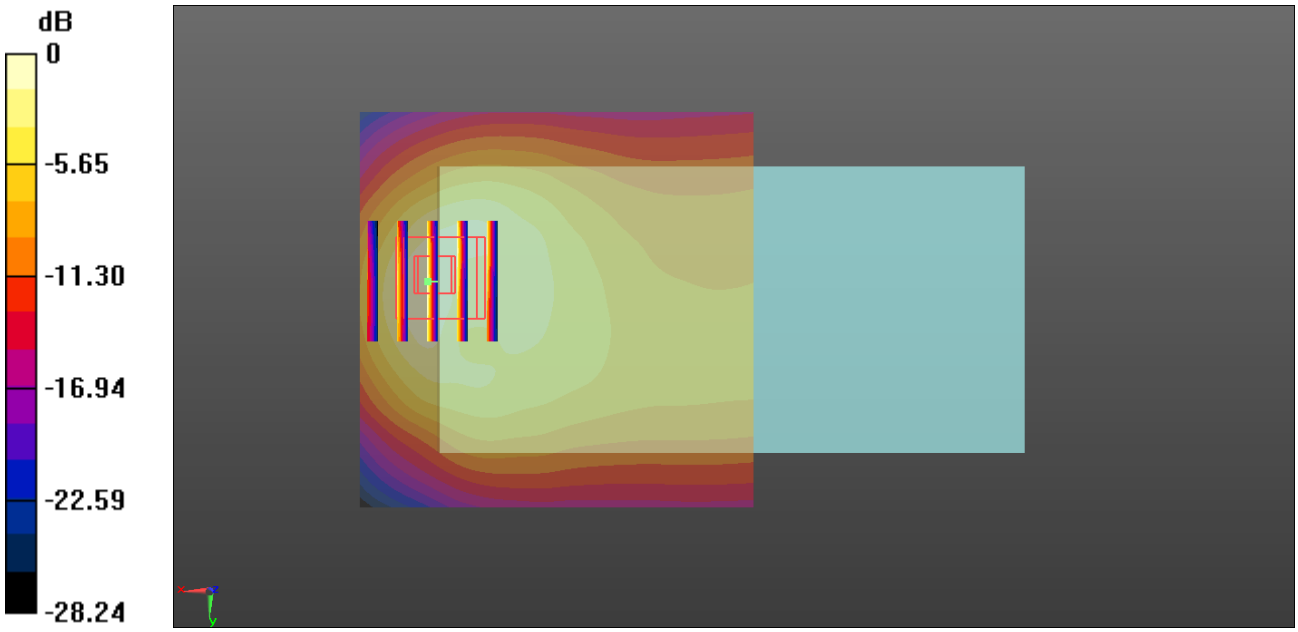
18_WCDMA V_RMC12.2Kbps_Back_5mm_Ch4132

Communication System: UID 0, UMTS (0); Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835 Medium parameters used: f = 826.4 MHz; σ = 0.975 S/m; ε_r = 56.577; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.8 ℃

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 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch4132/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.67 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 43.91 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.74 W/kg
SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.732 W/kg
Maximum value of SAR (measured) = 1.76 W/kg



0 dB = 1.67 W/kg = 2.23 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.19

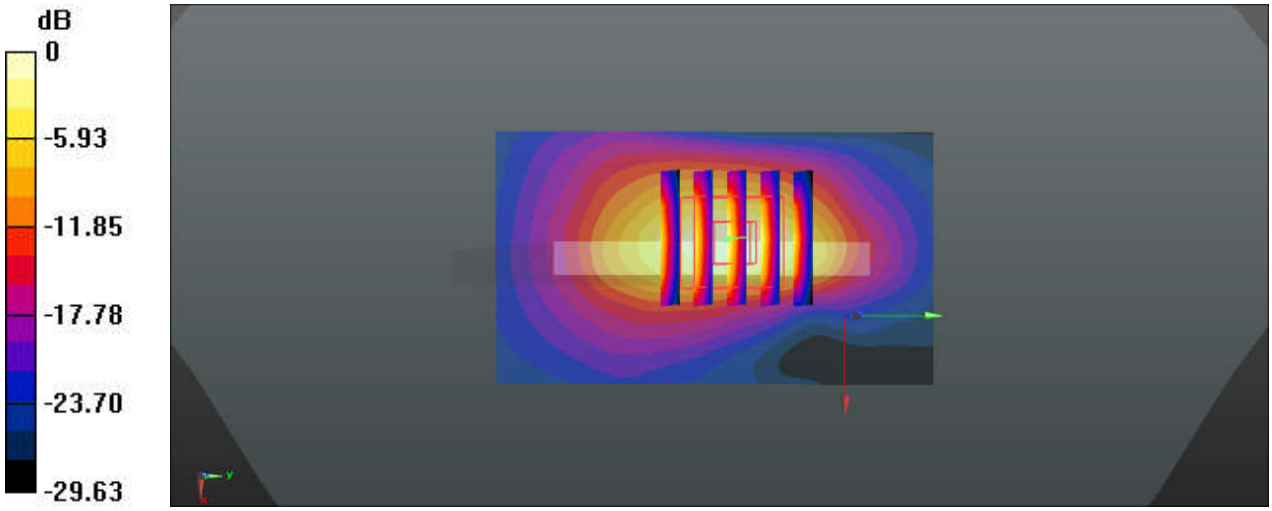
19_WCDMA IV_RMC 12.2Kbps_Bottom Side_5mm_Hotspot On_Ch1513

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 = 1.494 S/m; ε_r = 54.093; ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.41, 7.41, 7.41); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch1513/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.76 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.41 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 2.26 W/kg
SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.558 W/kg
Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.76 W/kg = 2.46 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.20

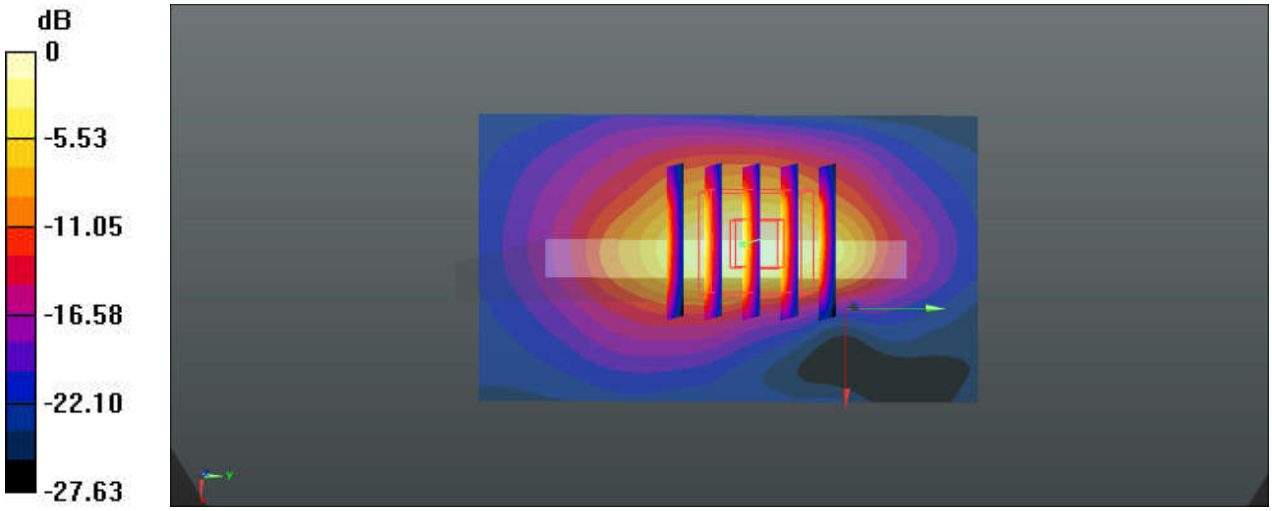
20_WCDMA II_RMC 12.2Kbps_Bottom Side_5mm_Hotspot On_Ch9400

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.514 S/m; ε_r = 53.87; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.07, 7.07, 7.07); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch9400/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.32 W/kg

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.15 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.906 W/kg; SAR(10 g) = 0.409 W/kg
Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.32 W/kg = 1.21 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.22

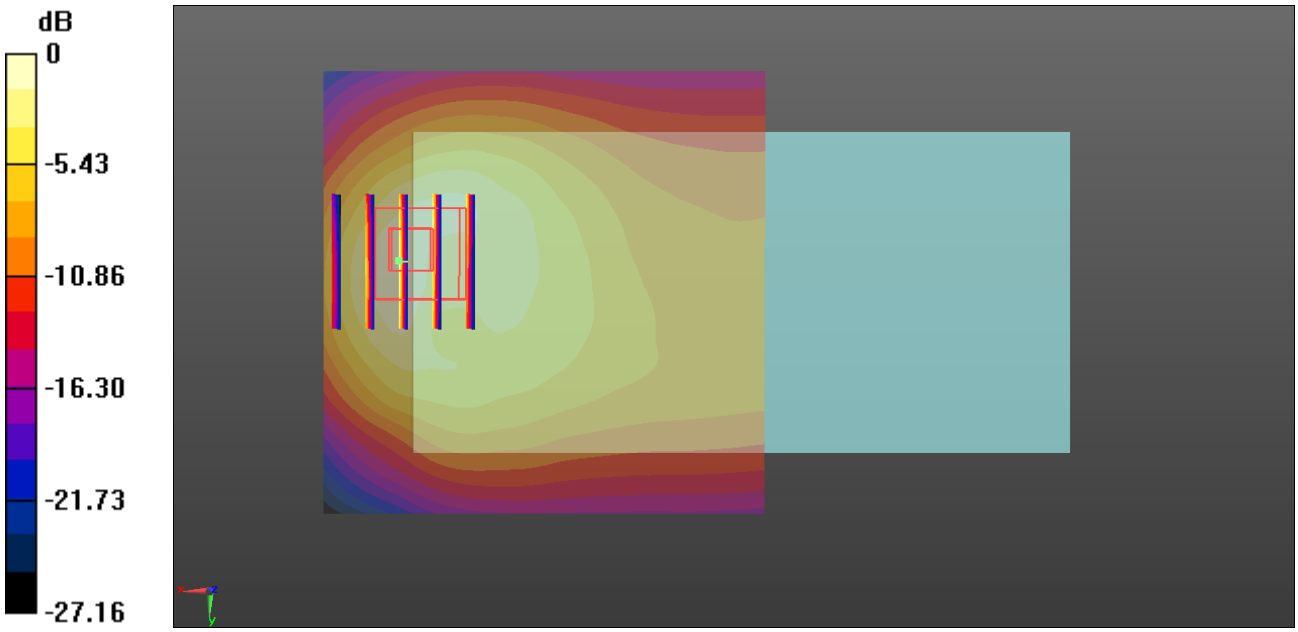
21_LTE Band 5_10M_QPSK_1RB_25Offset_Back_5mm_Ch20525

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 = 0.986 S/m; ε_r = 56.499; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.8 ℃

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 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch20525/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.48 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 40.94 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.41 W/kg
SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.649 W/kg
Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.6

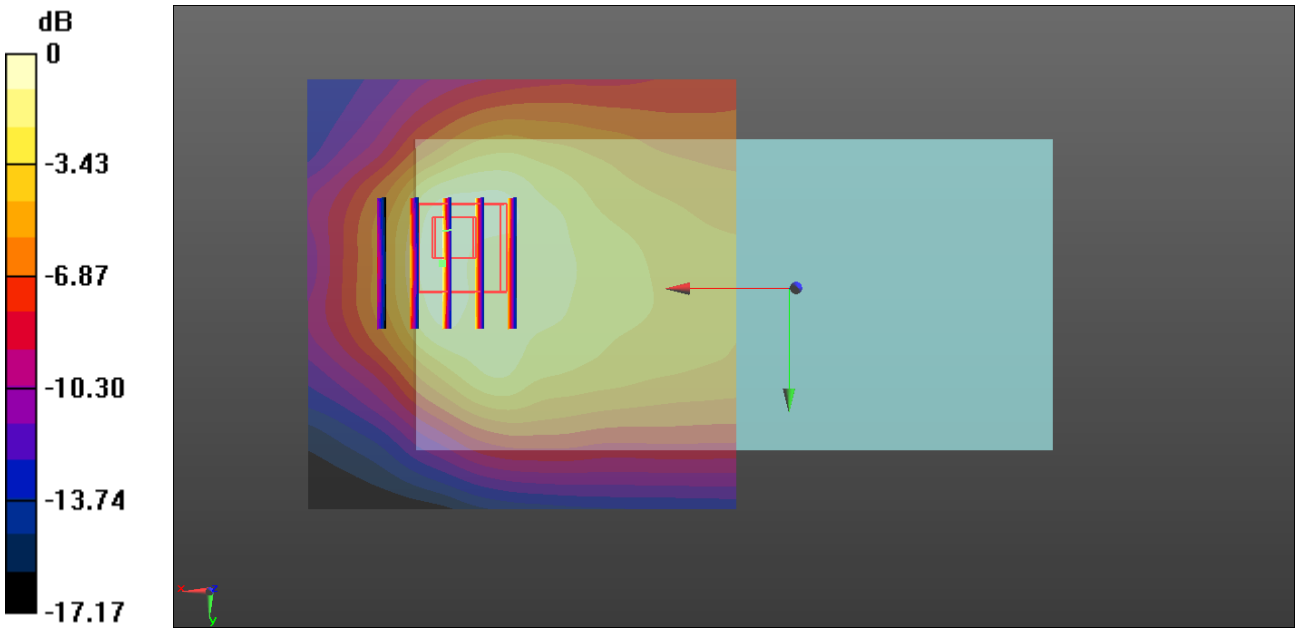
22_LTE Band 12_10M_QPSK_1RB_25Offset_Back_5mm_Ch23095

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 = 0.939 S/m; ε_r = 56.725; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(9.7, 9.7, 9.7); Calibrated: 2018.5.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch23095/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.888 W/kg

Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.61 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.784 W/kg; SAR(10 g) = 0.474 W/kg
Maximum value of SAR (measured) = 0.946 W/kg



0 dB = 0.888 W/kg = -0.52 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.19

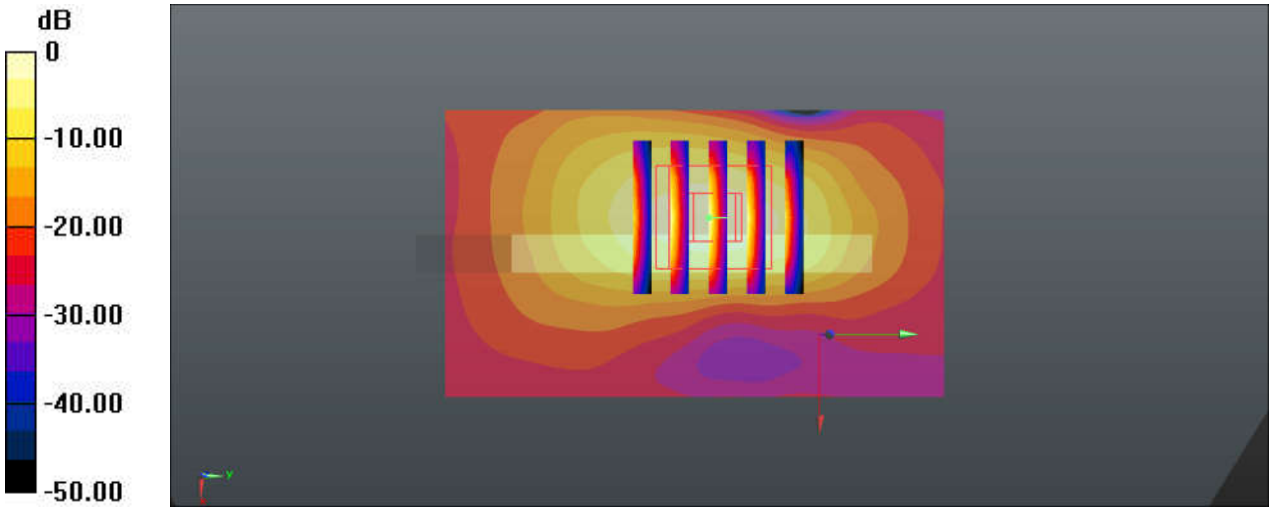
23_LTE Band 66_20M_QPSK_100RB_0Offset_Bottom Side_5mm_Hotspot On_Ch132572

Communication System: UID 0, LTE-FDD (0); Frequency: 1770 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1770 MHz; σ = 1.509 S/m; ε_r = 54.05; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.41, 7.41, 7.41); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch132572/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.37 W/kg

Ch132572/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.53 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.69 W/kg
SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.399 W/kg
Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.37 W/kg = 1.37 dBW/kg

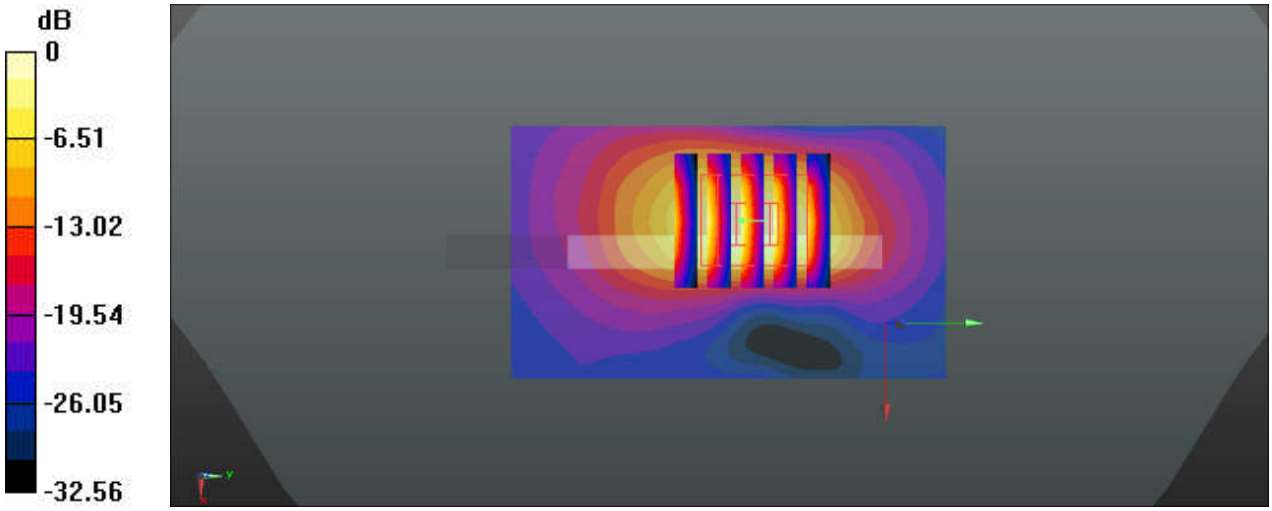
24_LTE Band 2_20M_QPSK_50RB_0Offset_Bottom Side_5mm_Hotspot On_Ch19100

Communication System: UID 0, LTE-FDD (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.537 S/m; ε_r = 53.815; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.07, 7.07, 7.07); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch19100/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.60 W/kg

Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.80 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 0.973 W/kg; SAR(10 g) = 0.435 W/kg
Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.60 W/kg = 2.04 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.19

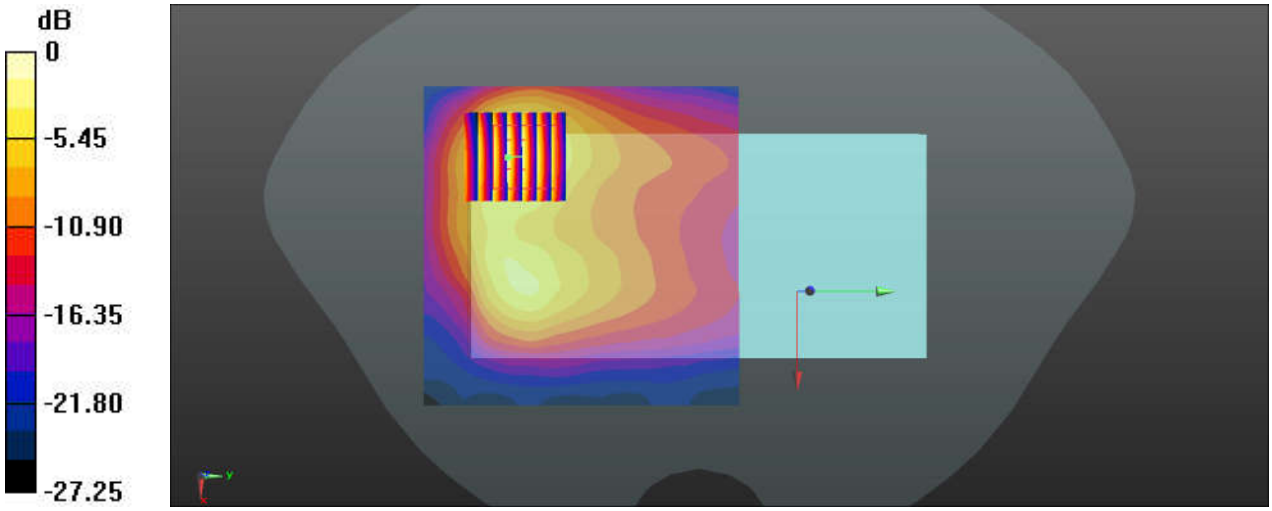
25_LTE Band 7_20M_QPSK_50RB_50Offset_Back_Hotspot On_5mm_Ch21350

Communication System: UID 0, LTE-FDD (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: MSL_2600 Medium parameters used: f = 2560 MHz; σ = 2.166 S/m; ε_r = 51.393; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(6.7, 6.7, 6.7); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch21350/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.71 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.64 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 2.79 W/kg
SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.554 W/kg
Maximum value of SAR (measured) = 1.63 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.22

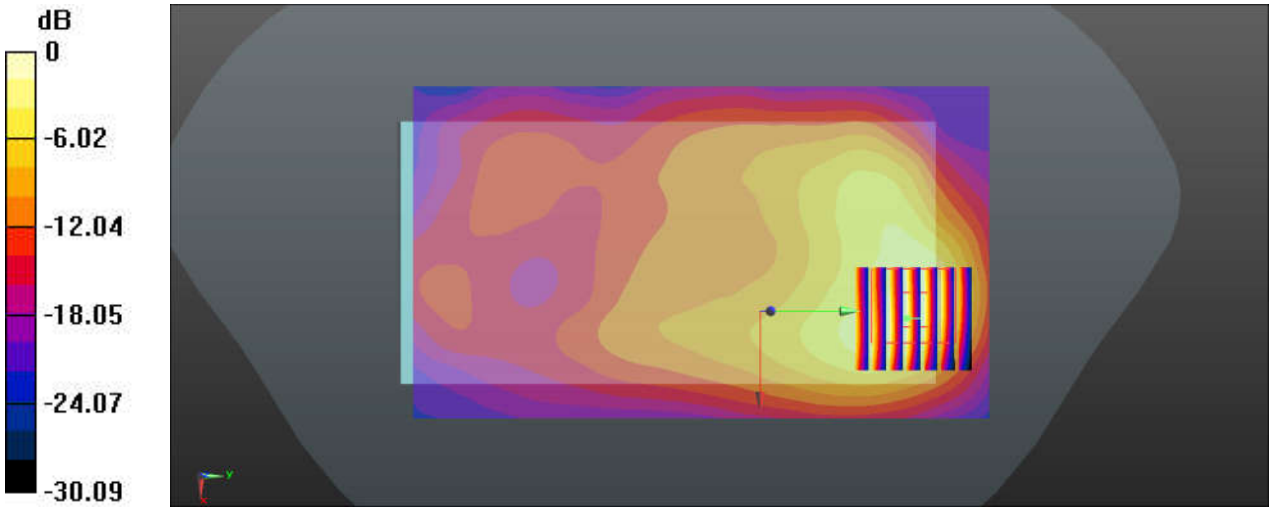
26_WLAN 2.4GHz _802.11b 1Mbps_Back_5mm_Ch1

Communication System: UID 0, 802.11b (0); Frequency: 2412 MHz;Duty Cycle: 1:1.028
Medium: MSL_2450 Medium parameters used: f = 2412 MHz; σ = 1.96 S/m; ε_r = 51.948; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.02, 7.02, 7.02); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch1/Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.768 W/kg

Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.70 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.273 W/kg
Maximum value of SAR (measured) = 0.749 W/kg



0 dB = 0.768 W/kg = -1.15 dBW/kg

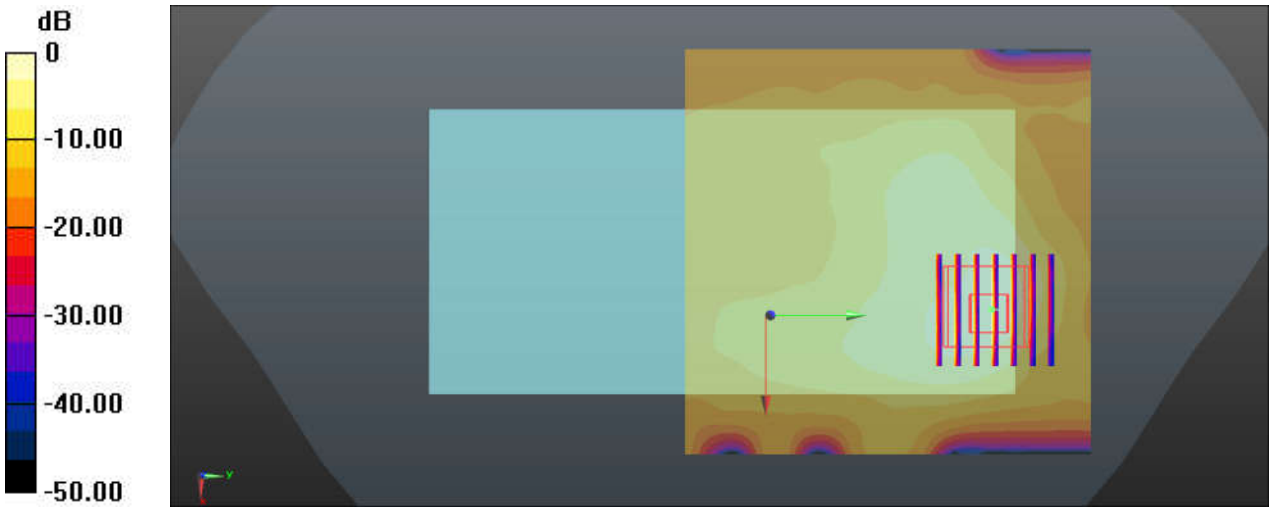
27_ Bluetooth _DH5 1Mbps_Back_5mm_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.298
Medium: MSL_2450 Medium parameters used: f = 2441 MHz; σ = 1.996 S/m; ε_r = 51.837; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.02, 7.02, 7.02); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch39/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.148 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.583 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.234 W/kg
SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.051 W/kg
Maximum value of SAR (measured) = 0.145 W/kg



0 dB = 0.148 W/kg = -8.30 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.22

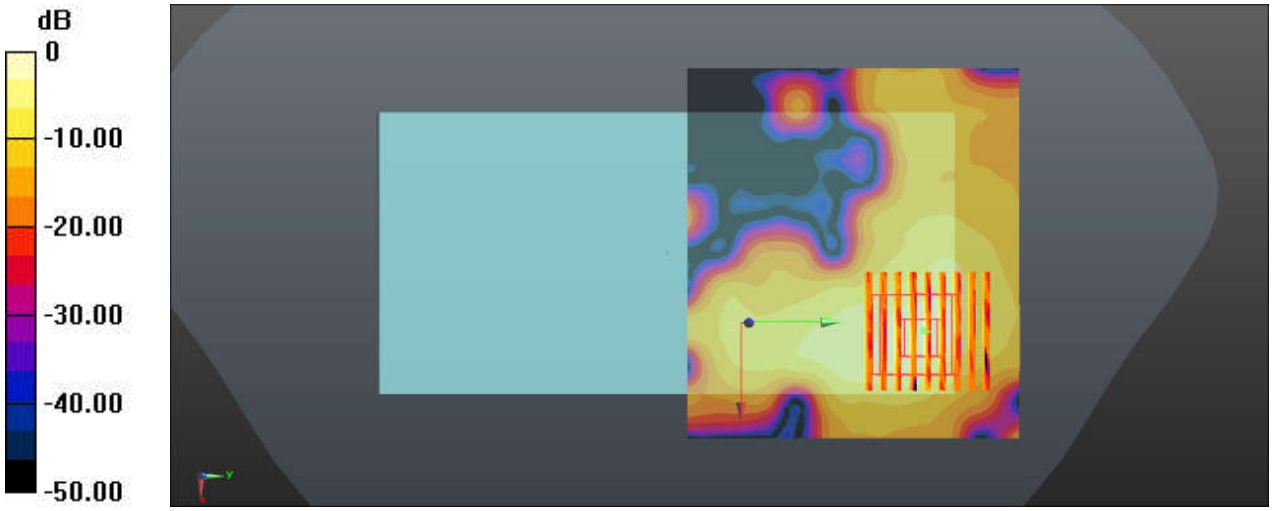
28_WLAN5GHzz_802.11n-HT40 MCS0_Back_5mm_Ch46

Communication System: UID 0, 802.11n (0); Frequency: 5230 MHz;Duty Cycle: 1:1.148
Medium: MSL_5000 Medium parameters used: f = 5230 MHz; σ = 5.519 S/m; ε_r = 47.663; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.4, 4.4, 4.4); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch46/Area Scan (101x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.668 W/kg

Ch46/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.64 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.32 W/kg
SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.154 W/kg
Maximum value of SAR (measured) = 0.914 W/kg



0 dB = 0.668 W/kg = -1.75 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.22

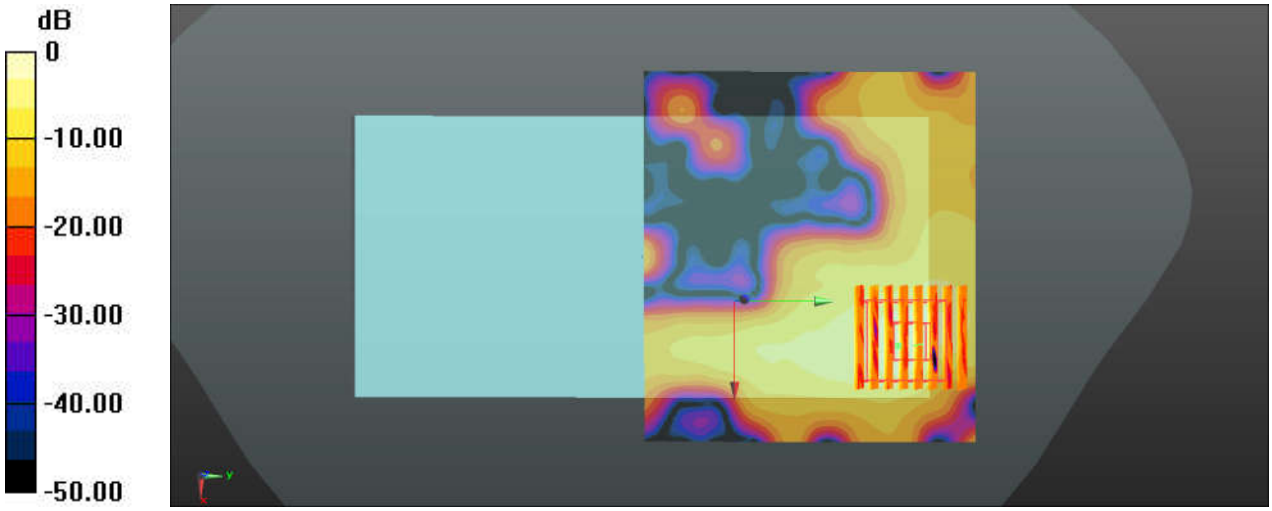
29_WLAN5GHzz_802.11n-HT40 MCS0_Back_5mm_Ch151

Communication System: UID 0, 802.11n (0); Frequency: 5755 MHz;Duty Cycle: 1:1.148
Medium: MSL_5000 Medium parameters used: f = 5755 MHz; σ = 6.219 S/m; ε_r = 46.777; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.31, 4.31, 4.31); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch151/Area Scan (101x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.745 W/kg

Ch151/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 11.72 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.27 W/kg
SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.155 W/kg
Maximum value of SAR (measured) = 0.932 W/kg



0 dB = 0.745 W/kg = -1.28 dBW/kg

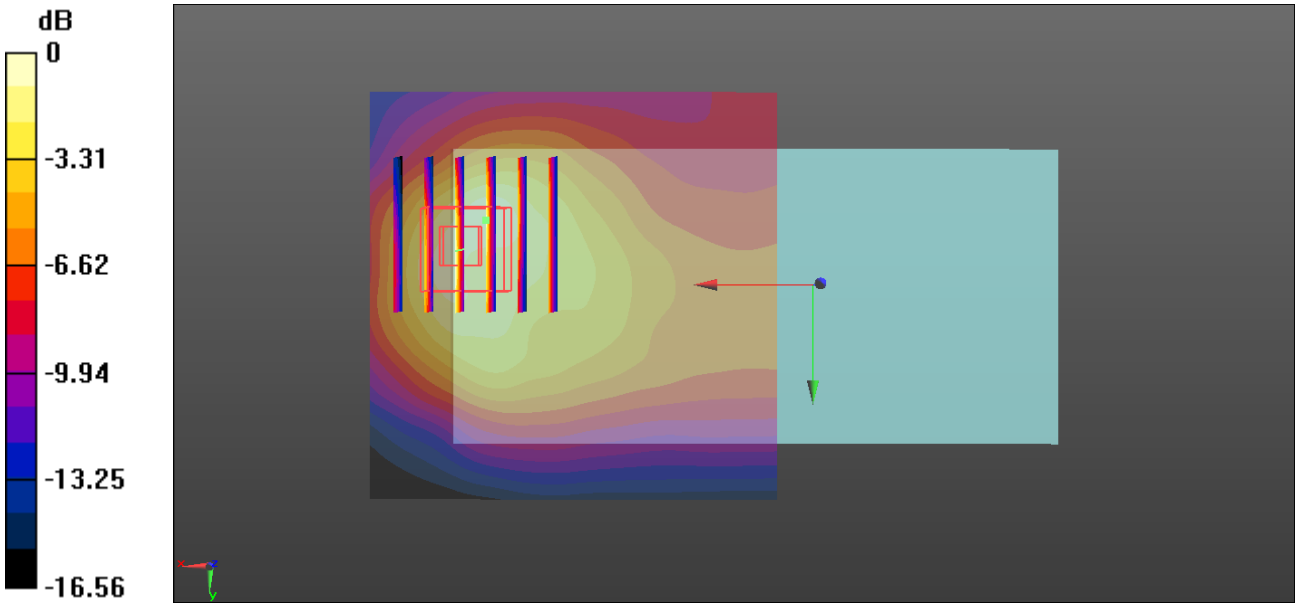
30_GSM850_GPRS 4 Tx slots_Back_5mm_Ch251

Communication System: UID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 848.8 MHz;Duty Cycle: 1:2.08
Medium: MSL_835 Medium parameters used: f = 848.8 MHz; σ = 0.999 S/m; ε_r = 56.388; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.8 ℃

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 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch251/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.50 W/kg

Ch251/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 37.61 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.05 W/kg
SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.746 W/kg
Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.20

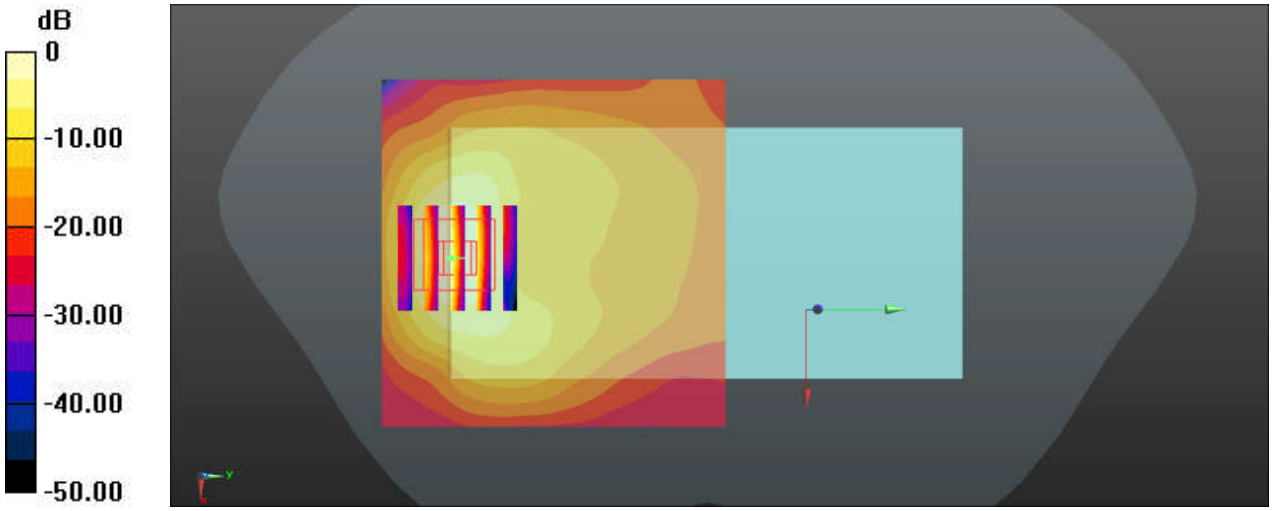
31_GSM1900_GPRS (4 Tx slots)_Back_5mm_Sensor On_Ch512

Communication System: UIDID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 1850.2 MHz;Duty Cycle: 1:2.08
Medium: MSL_1900 Medium parameters used: f = 1850.2 MHz; σ = 1.482 S/m; ε_r = 53.974; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.07, 7.07, 7.07); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch512/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.996 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.86 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.99 W/kg
SAR(1 g) = 0.992 W/kg; SAR(10 g) = 0.448 W/kg
Maximum value of SAR (measured) = 1.24 W/kg



0 dB = 0.996 W/kg = -0.02 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.22

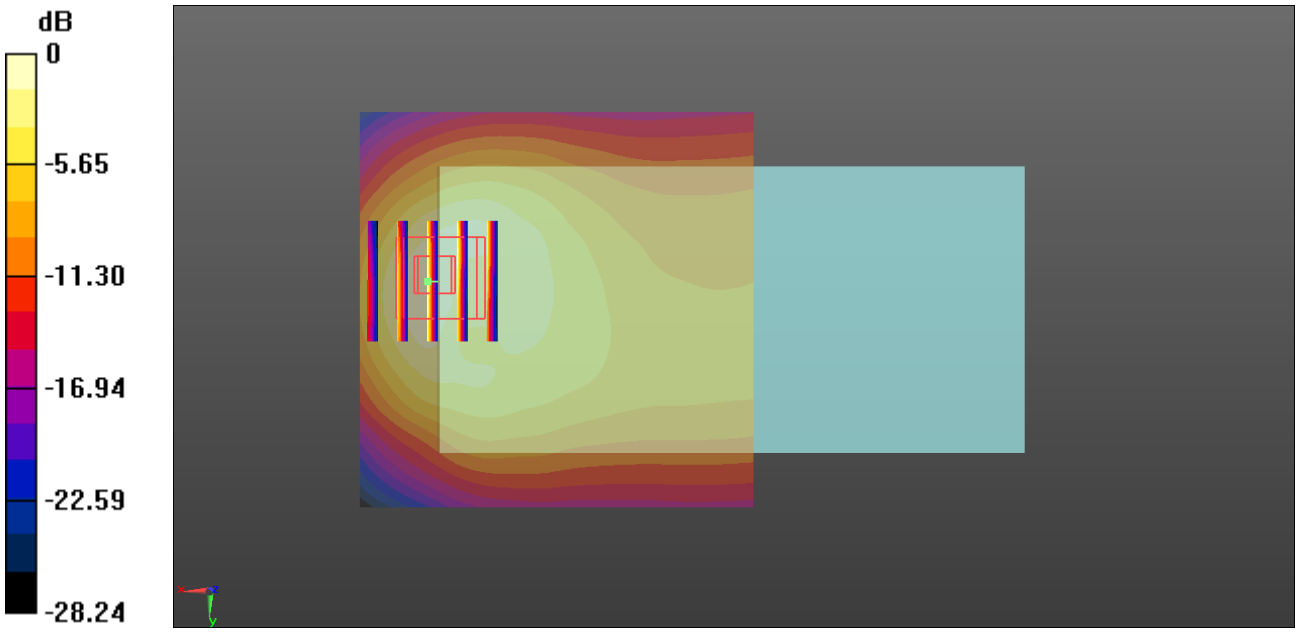
32_WCDMA V_RMC12.2Kbps_Back_5mm_Ch4132

Communication System: UID 0, UMTS (0); Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_835 Medium parameters used: f = 826.4 MHz; σ = 0.975 S/m; ε_r = 56.577; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.8 ℃

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 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch4132/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.67 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 43.91 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.74 W/kg
SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.732 W/kg
Maximum value of SAR (measured) = 1.76 W/kg



0 dB = 1.67 W/kg = 2.23 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.19

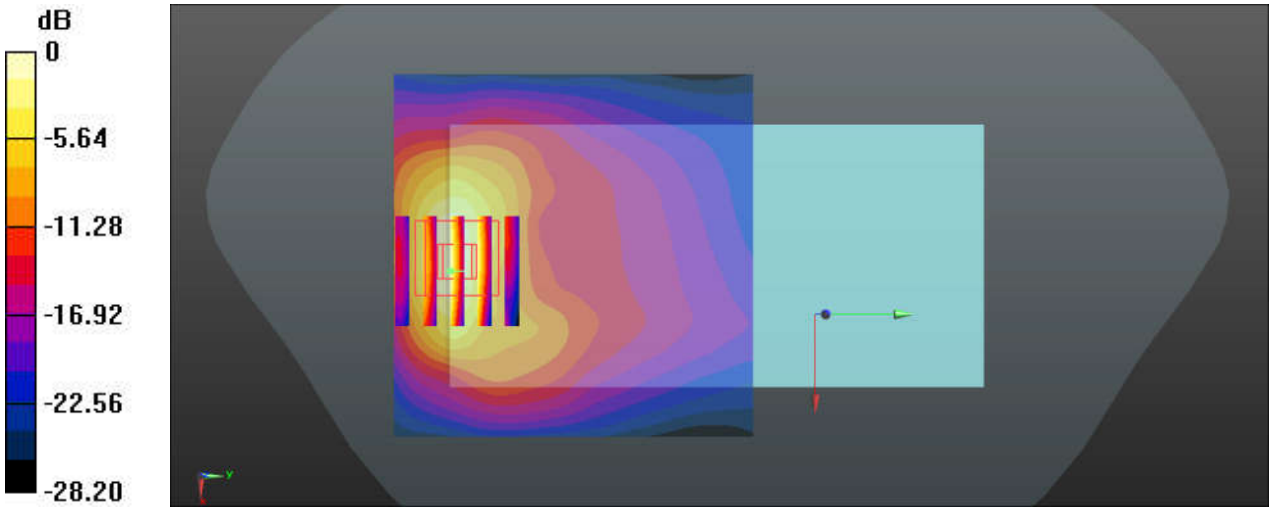
33_WCDMA IV_RMC 12.2Kbps_Back_5mm_Sensor On_Headest_Ch1513

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 = 1.494 S/m; ε_r = 54.093; ρ = 1000kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.41, 7.41, 7.41); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch1513/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.42 W/kg

Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.12 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.53 W/kg
SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.631 W/kg
Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg

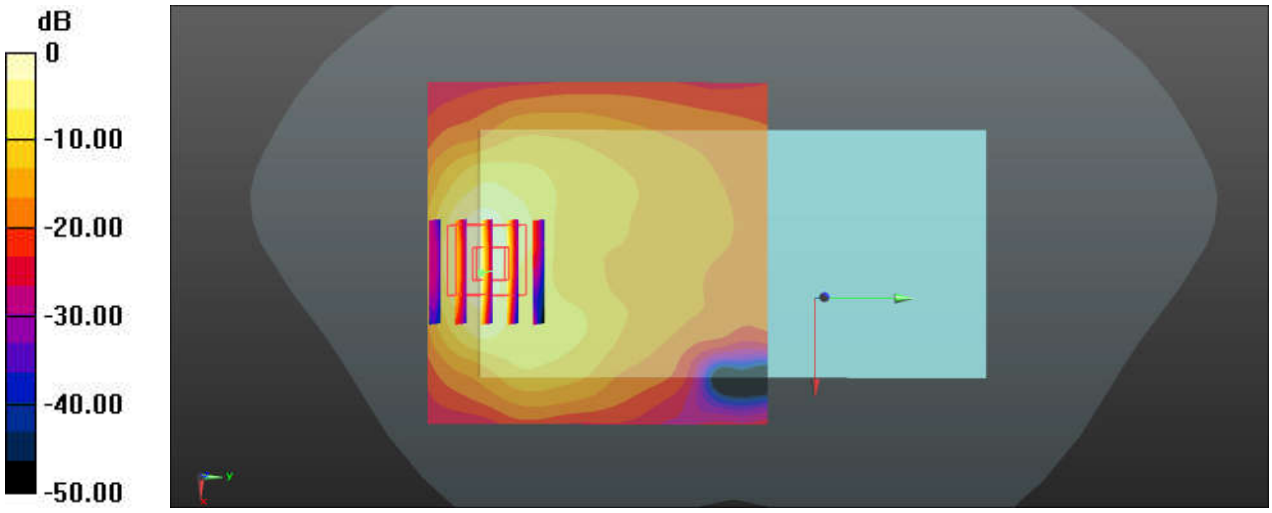
34_WCDMA II_RMC 12.2Kbps_Back_5mm_Sensor On_Ch9262

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 = 1.484 S/m; ε_r = 53.969; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.07, 7.07, 7.07); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Configuration/Ch9262/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.16 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.93 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.12 W/kg
SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.486 W/kg
Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.22

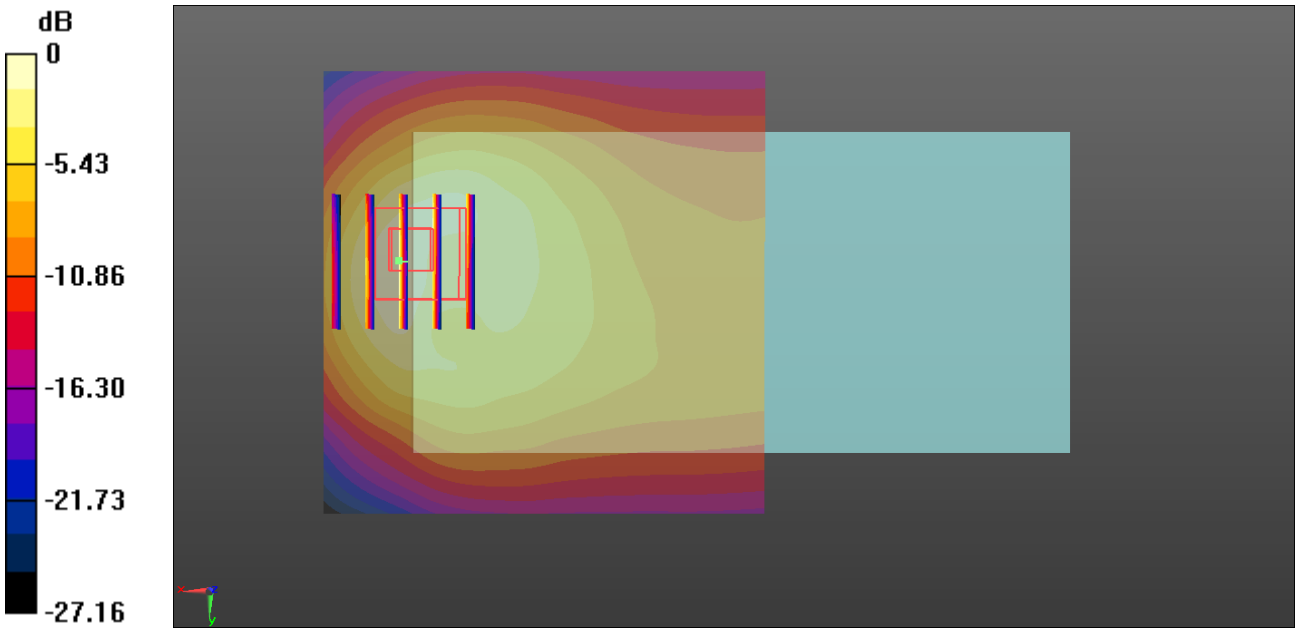
35_LTE Band 5_10M_QPSK_1RB_25Offset_Back_5mm_Ch20525

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 = 0.986 S/m; ε_r = 56.499; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.8 ℃

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 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch20525/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.48 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 40.94 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.41 W/kg
SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.649 W/kg
Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.6

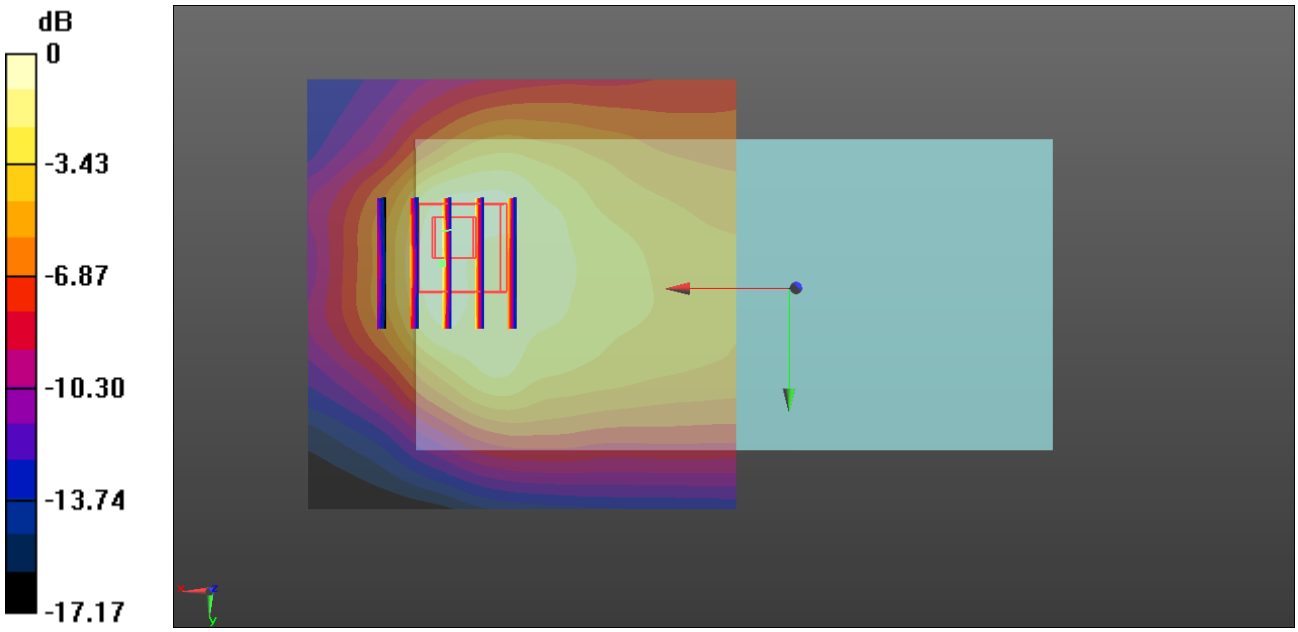
36_LTE Band 12_10M_QPSK_1RB_25Offset_Back_5mm_Ch23095

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 = 0.939 S/m; ε_r = 56.725; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(9.7, 9.7, 9.7); Calibrated: 2018.5.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1697
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch23095/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.888 W/kg

Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.61 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.784 W/kg; SAR(10 g) = 0.474 W/kg
Maximum value of SAR (measured) = 0.946 W/kg



0 dB = 0.888 W/kg = -0.52 dBW/kg

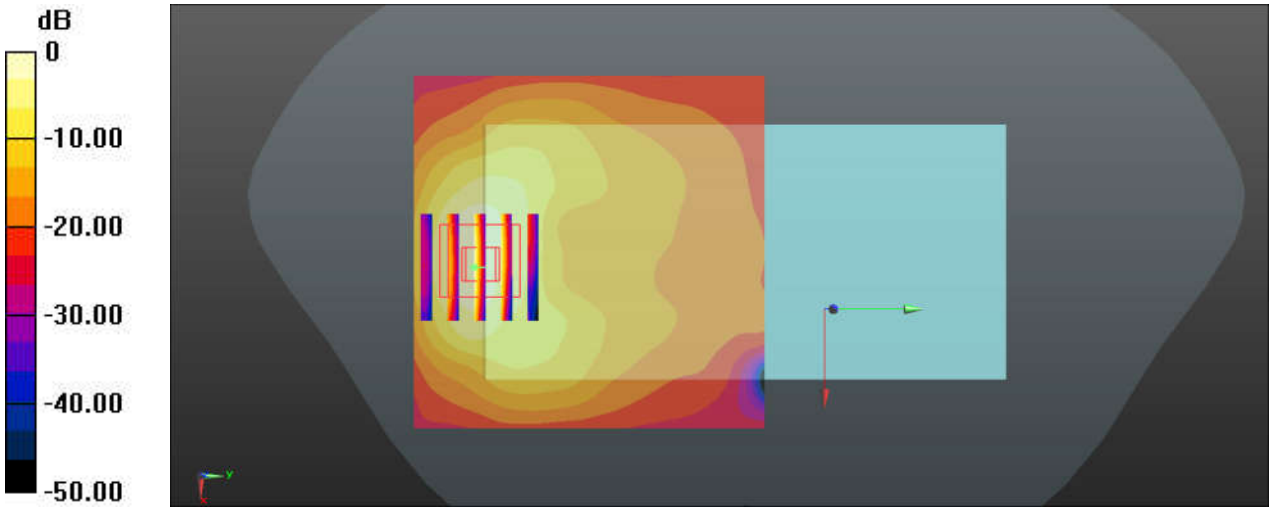
37_LTE Band 66_20M_QPSK_100RB_0Offset_Back_5mm_Sensor On_Ch132572

Communication System: UID 0, LTE-FDD (0); Frequency: 1770 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1770 MHz; σ = 1.509 S/m; ε_r = 54.05; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.41, 7.41, 7.41); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch132572/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.926 W/kg

Ch132572/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.38 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 0.883 W/kg; SAR(10 g) = 0.412 W/kg
Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 0.926 W/kg = -0.33 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.20

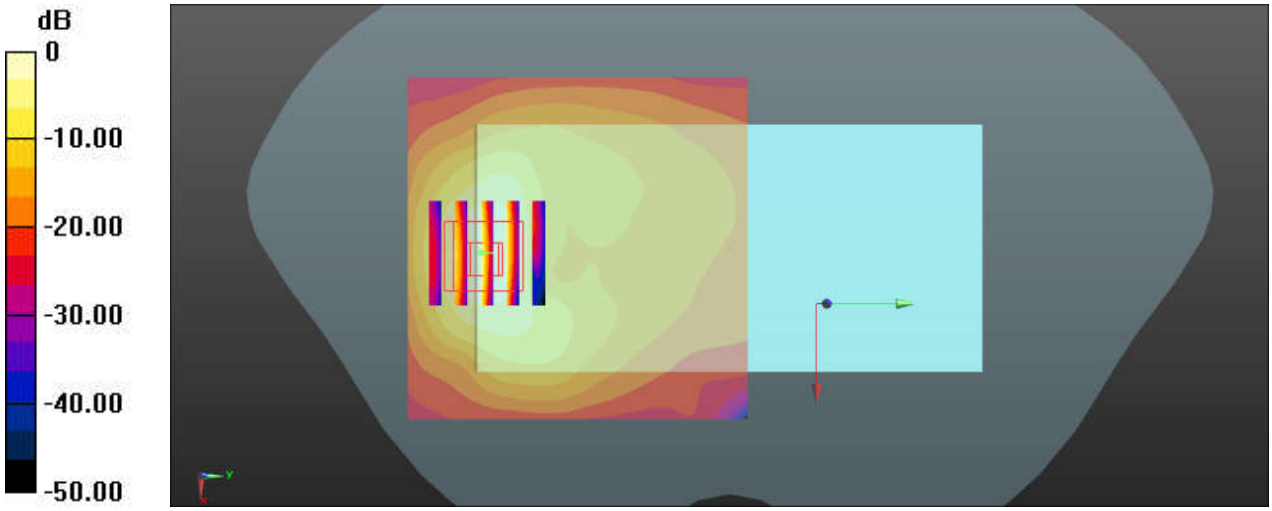
38_LTE Band 2_20M_QPSK_50RB_0Offset_Back_5mm_Sensor On_Ch19100

Communication System: UID 0, LTE-FDD (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.537 S/m; ε_r = 53.815; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.07, 7.07, 7.07); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); 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) = 1.17 W/kg

Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.79 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.27 W/kg
SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.515 W/kg
Maximum value of SAR (measured) = 1.43 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.19

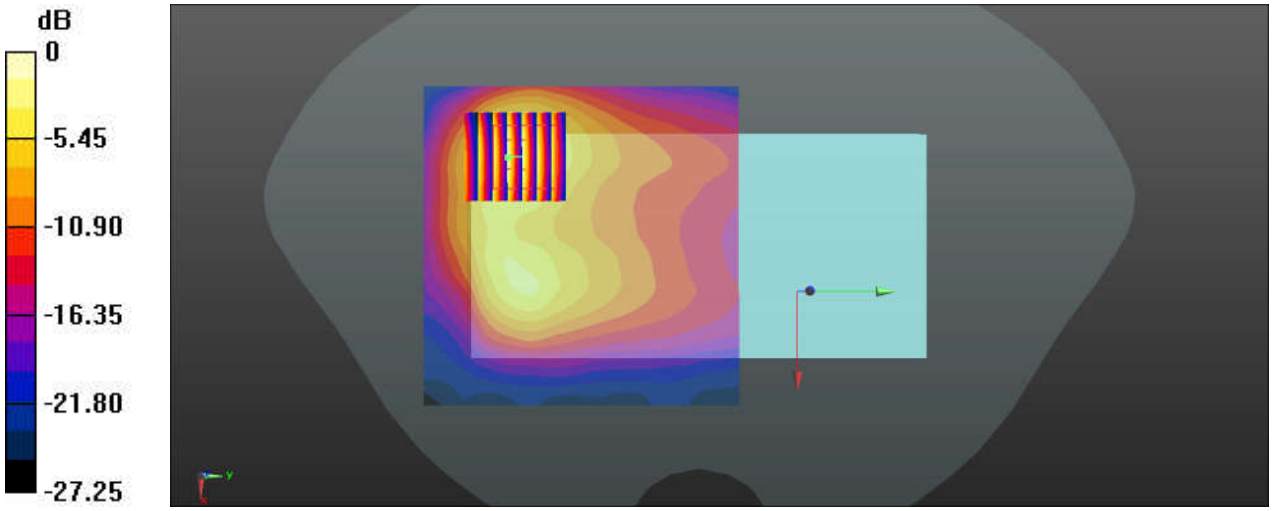
39_LTE Band 7_20M_QPSK_50RB_50Offset_Back_Sensor On_5mm_Ch21350

Communication System: UID 0, LTE-FDD (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: MSL_2600 Medium parameters used: f = 2560 MHz; σ = 2.166 S/m; ε_r = 51.393; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(6.7, 6.7, 6.7); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch21350/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.71 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.64 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 2.79 W/kg
SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.554 W/kg
Maximum value of SAR (measured) = 1.63 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.22

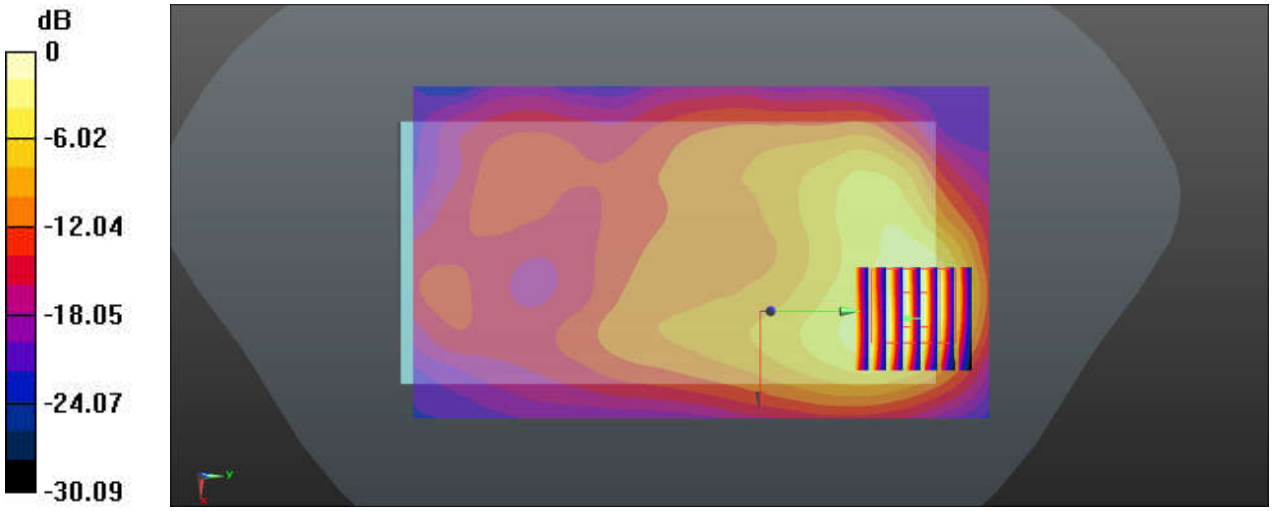
40_WLAN 2.4GHz _802.11b 1Mbps_Back_5mm_Ch1

Communication System: UID 0, 802.11b (0); Frequency: 2412 MHz;Duty Cycle: 1:1.028
Medium: MSL_2450 Medium parameters used: f = 2412 MHz; σ = 1.96 S/m; ε_r = 51.948; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.02, 7.02, 7.02); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch1/Area Scan (81x141x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.768 W/kg

Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.70 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.273 W/kg
Maximum value of SAR (measured) = 0.749 W/kg



0 dB = 0.768 W/kg = -1.15 dBW/kg

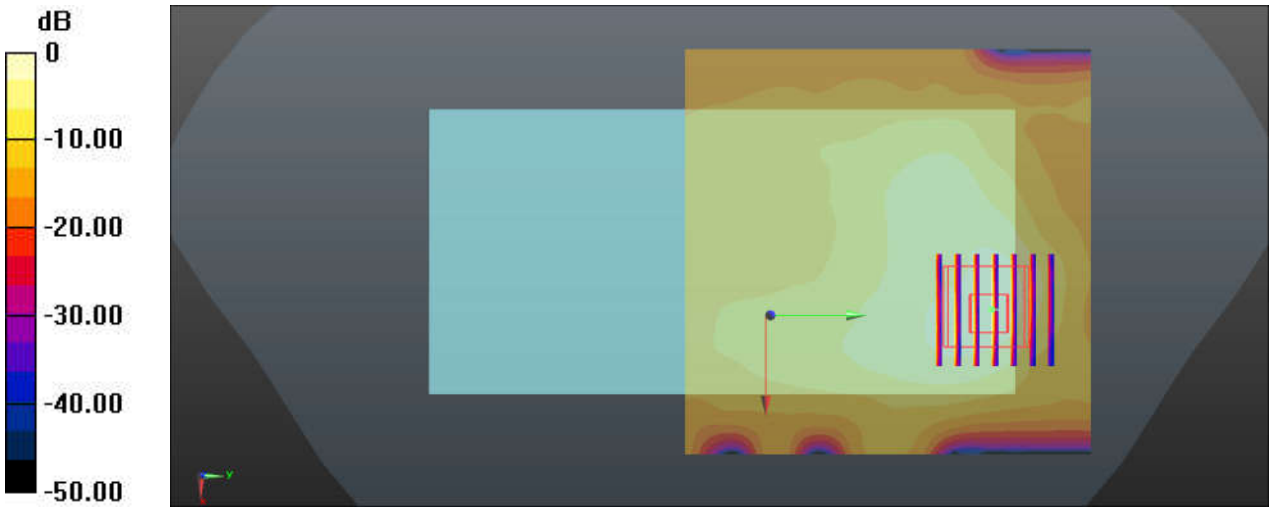
41_ Bluetooth _DH5 1Mbps_Back_5mm_Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.298
Medium: MSL_2450 Medium parameters used: f = 2441 MHz; σ = 1.996 S/m; ε_r = 51.837; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.02, 7.02, 7.02); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch39/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.148 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.583 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.234 W/kg
SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.051 W/kg
Maximum value of SAR (measured) = 0.145 W/kg



0 dB = 0.148 W/kg = -8.30 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.22

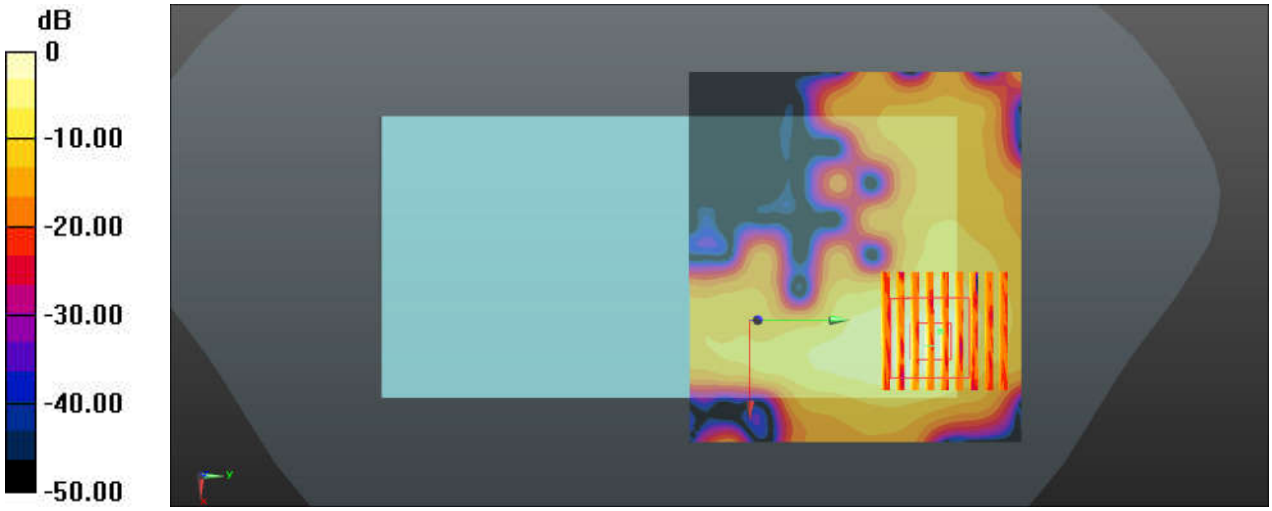
42_WLAN5GHz_802.11n-HT40 MCS0_Back_5mm_Ch54

Communication System: UID 0, 802.11n (0); Frequency: 5270 MHz;Duty Cycle: 1:1.148
Medium: MSL_5000 Medium parameters used: f = 5270 MHz; σ = 6.219 S/m; ε_r = 46.777; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.4, 4.4, 4.4); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch54/Area Scan (101x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.959 W/kg

Ch54/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.77 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.94 W/kg
SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.194 W/kg
Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 0.959 W/kg = -0.18 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.22

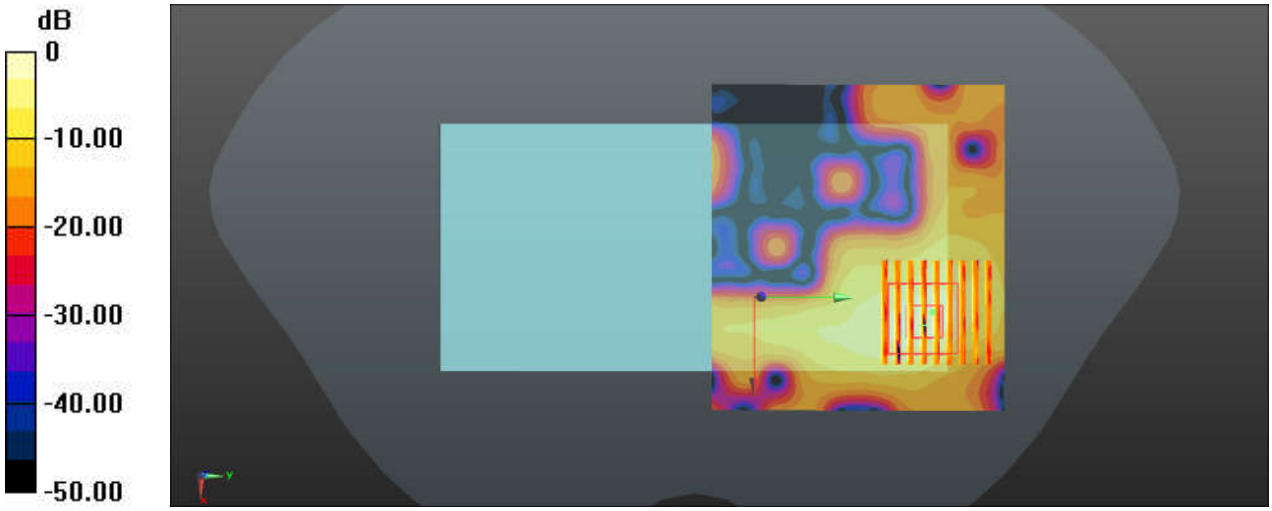
43_WLAN5GHz_802.11n-HT40 MCS0_Back_5mm_Ch126

Communication System: UID 0, 802.11n (0); Frequency: 5630 MHz;Duty Cycle: 1:1.148
Medium: MSL_5000 Medium parameters used: f = 5630 MHz; σ = 5.995 S/m; ε_r = 47.322; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(3.98, 3.98, 3.98); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch126/Area Scan (101x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.15 W/kg

Ch126/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 14.76 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.48 W/kg
SAR(1 g) = 0.782 W/kg; SAR(10 g) = 0.223 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.22

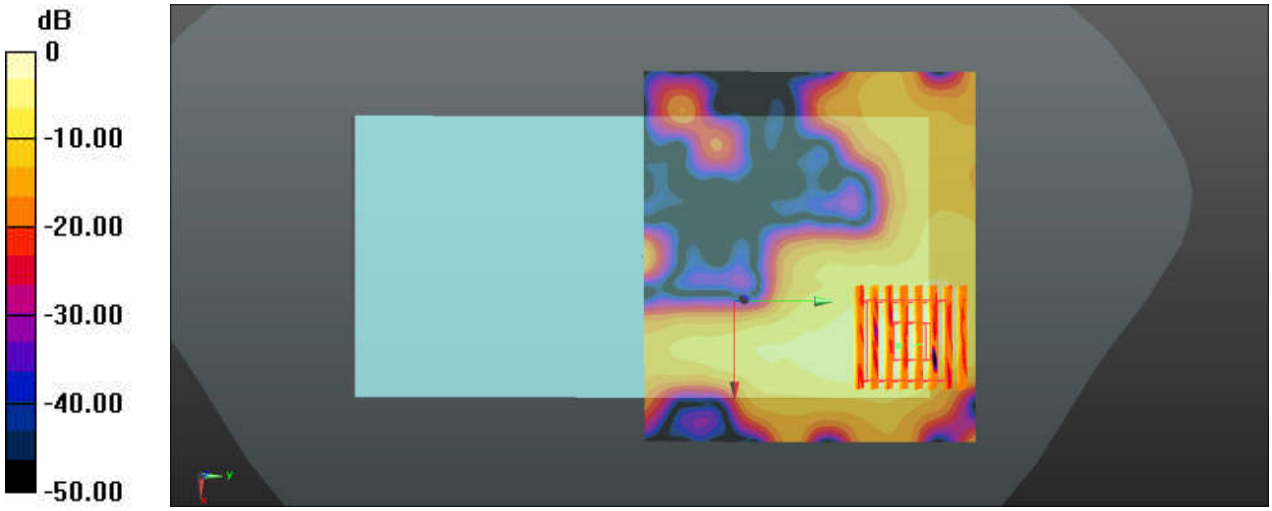
44_WLAN5GHz_802.11n-HT40 MCS0_Back_5mm_Ch151

Communication System: UID 0, 802.11n (0); Frequency: 5755 MHz;Duty Cycle: 1:1.148
Medium: MSL_5000 Medium parameters used: f = 5755 MHz; σ = 6.219 S/m; ε_r = 46.777; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.31, 4.31, 4.31); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch151/Area Scan (101x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.745 W/kg

Ch151/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 11.72 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.27 W/kg
SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.155 W/kg
Maximum value of SAR (measured) = 0.932 W/kg



0 dB = 0.745 W/kg = -1.28 dBW/kg

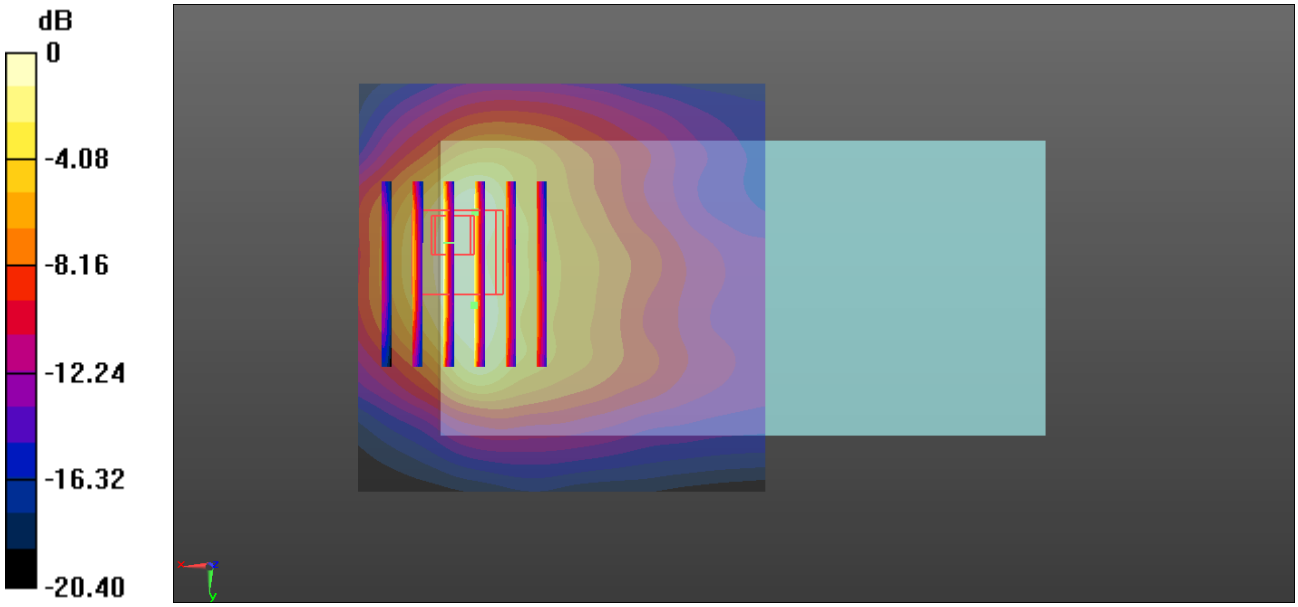
45_GSM850_GPRS 4 Tx slots_Back_0mm_Ch128

Communication System: UID 0, GPRS/EDGE (4 Tx slots) (0); Frequency: 824.2 MHz;Duty Cycle: 1:2.08
Medium: MSL_835 Medium parameters used: f = 824.2 MHz; σ = 0.974 S/m; ε_r = 56.594; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.8 ℃

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 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch128/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 4.04 W/kg

Ch128/Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 59.99 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 6.49 W/kg
SAR(1 g) = 3.35 W/kg; SAR(10 g) = 1.89 W/kg
Maximum value of SAR (measured) = 4.30 W/kg



0 dB = 4.04 W/kg = 6.06 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.20

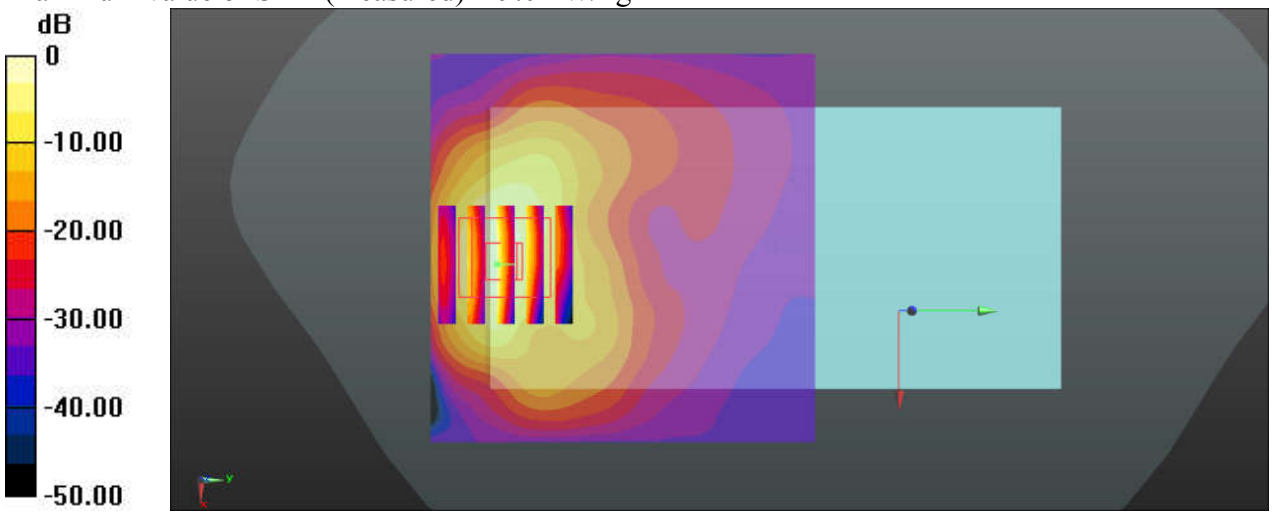
46_GSM1900_GPRS (4 Tx slots)_Back_0mm_Extremity On_Ch512

Communication System: UID 0, PCS (0); Frequency: 1850.2 MHz;Duty Cycle: 1:2.08
Medium: MSL_1900 Medium parameters used: f = 1850.2 MHz; σ = 1.482 S/m; ε_r =53.974; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.07, 7.07, 7.07); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch512/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 7.66 W/kg

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 79.14 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 14.1 W/kg
SAR(1 g) = 6.05 W/kg; SAR(10 g) = 2.39 W/kg
Maximum value of SAR (measured) = 9.02 W/kg



0 dB = 7.66 W/kg = 8.84 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.22

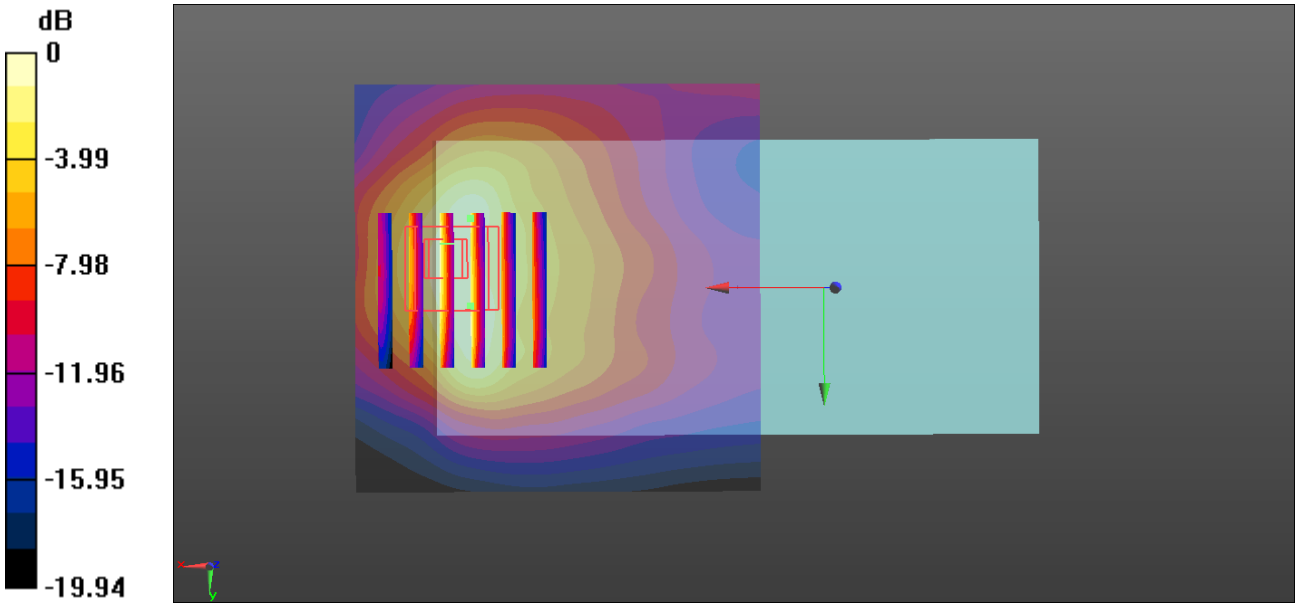
47_WCDMA V_RMC12.2Kbps_Back_0mm_Ch4233

Communication System: UID 0, UMTS (0); Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: MSL_835 Medium parameters used: f = 846.6 MHz; σ = 0.997 S/m; ε_r = 56.409; ρ = 1000$_{kg/m^3}$
Ambient Temperature：23.5 ℃; Liquid Temperature：22.8 ℃

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 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch4233/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 4.42 W/kg

Ch4233/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 61.52 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 6.88 W/kg
SAR(1 g) = 3.61 W/kg; SAR(10 g) = 2.09 W/kg
Maximum value of SAR (measured) = 4.67 W/kg



0 dB = 4.42 W/kg = 6.45 dBW/kg

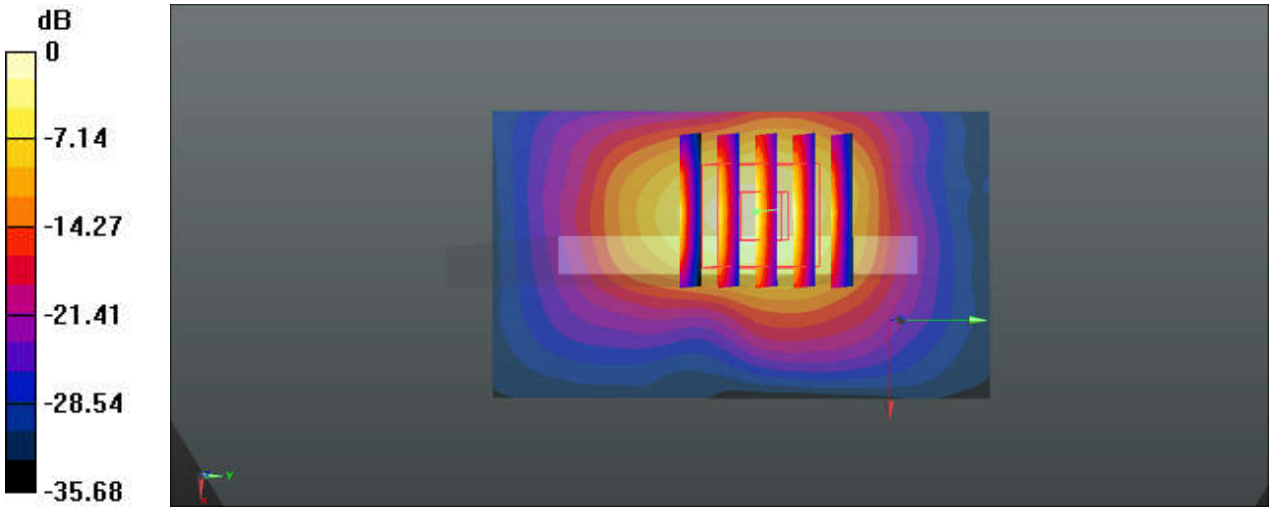
48_WCDMA IV_RMC 12.2Kbps_Bottom Side_0mm_Extremity On_Ch1312

Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1712.4 MHz; σ = 1.447 S/m; ε_r = 54.194; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.41, 7.41, 7.41); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch1312/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 9.75 W/kg

Ch1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 83.57 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 15.2 W/kg
SAR(1 g) = 7.06 W/kg; SAR(10 g) = 3.13 W/kg
Maximum value of SAR (measured) = 10.0 W/kg



0 dB = 9.75 W/kg = 9.89 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.20

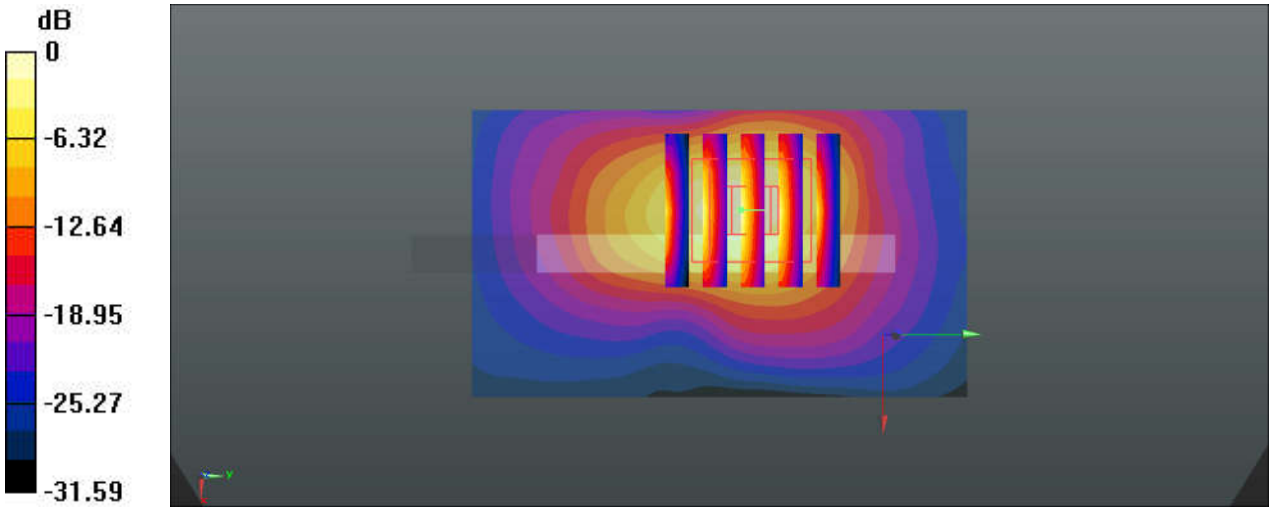
49_WCDMA II_RMC 12.2Kbps_Bottom Side_0mm_Extremity On_Ch9262

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 = 1.484 S/m; ε_r =53.969; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.07, 7.07, 7.07); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch9262/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 7.12 W/kg

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 79.46 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 14.3 W/kg
SAR(1 g) = 6.23 W/kg; SAR(10 g) = 2.54 W/kg
Maximum value of SAR (measured) = 9.18 W/kg



0 dB = 7.12 W/kg = 8.52 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.9.22

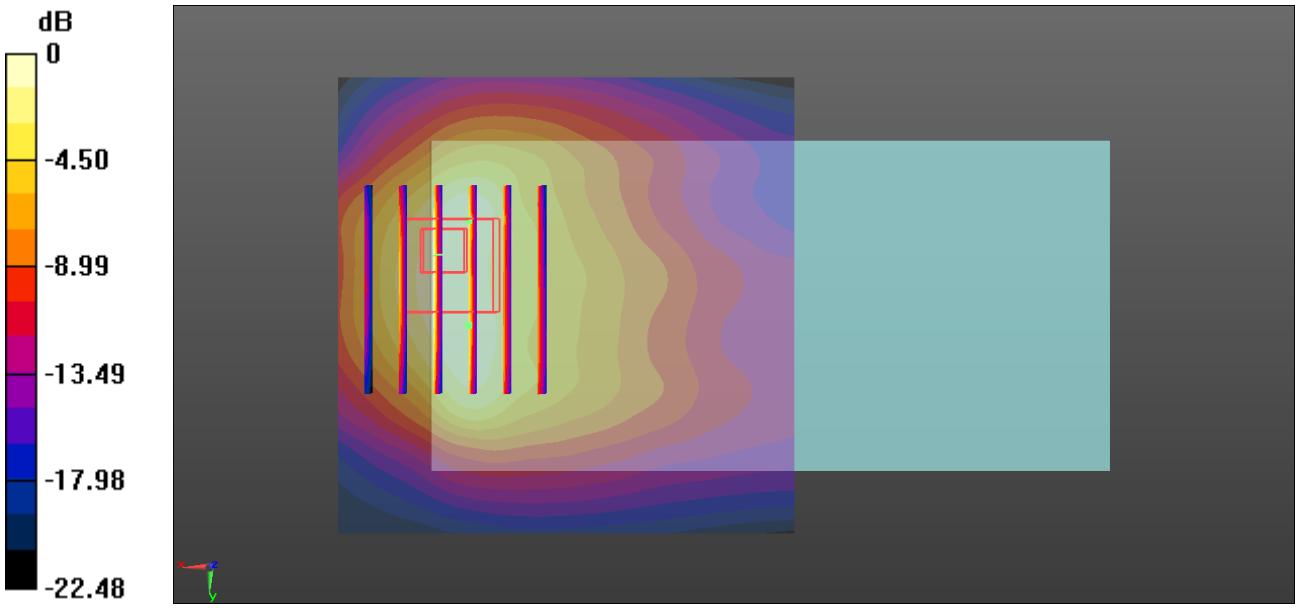
50_LTE Band 5_10M_QPSK_1RB_25Offset_Back_0mm_Ch20525

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 = 0.986 S/m; ε_r = 56.499; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃； Liquid Temperature：22.8 ℃

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 Sn1279; Calibrated: 2018.1.3
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch20525/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.74 W/kg

Ch20525/Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 58.14 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 6.48 W/kg
SAR(1 g) = 3.29 W/kg; SAR(10 g) = 1.83 W/kg
Maximum value of SAR (measured) = 4.30 W/kg



0 dB = 3.74 W/kg = 5.73 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.19

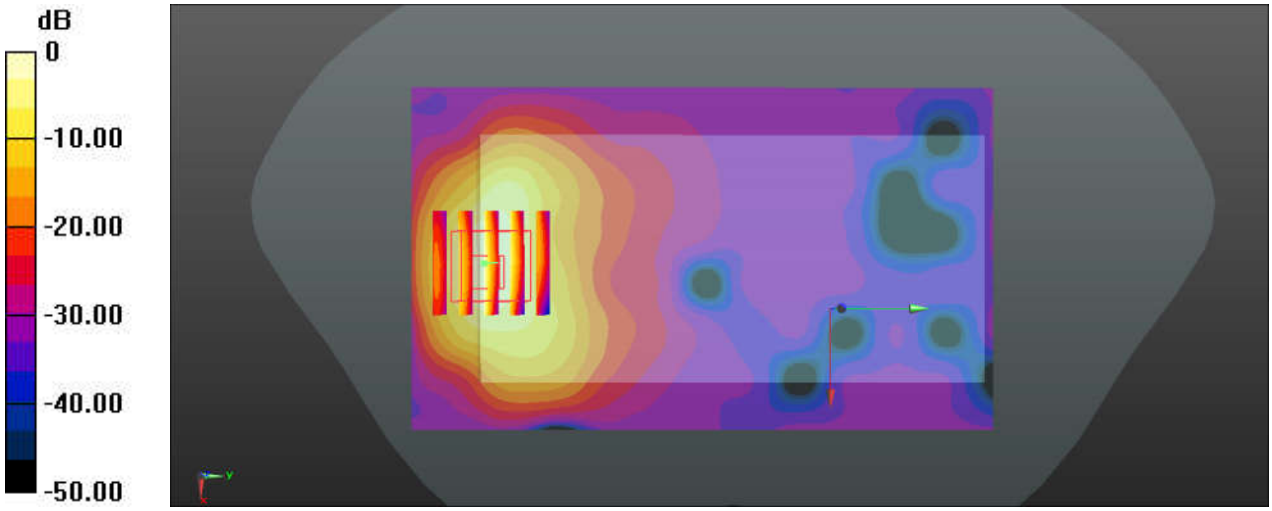
51_LTE Band 66_20M_QPSK_100RB_0Offset_Back_0mm_Extremity On_Ch132572

Communication System: UID 0, LTE-FDD (0); Frequency: 1770 MHz;Duty Cycle: 1:1
Medium: MSL_1750 Medium parameters used: f = 1770 MHz; σ = 1.509 S/m; ε_r = 54.05; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.41, 7.41, 7.41); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch132572/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 7.32 W/kg

Ch132572/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 75.20 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 12.5 W/kg
SAR(1 g) = 6.04 W/kg; SAR(10 g) = 2.68 W/kg
Maximum value of SAR (measured) = 8.45 W/kg



0 dB = 7.32 W/kg = 8.65 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.20

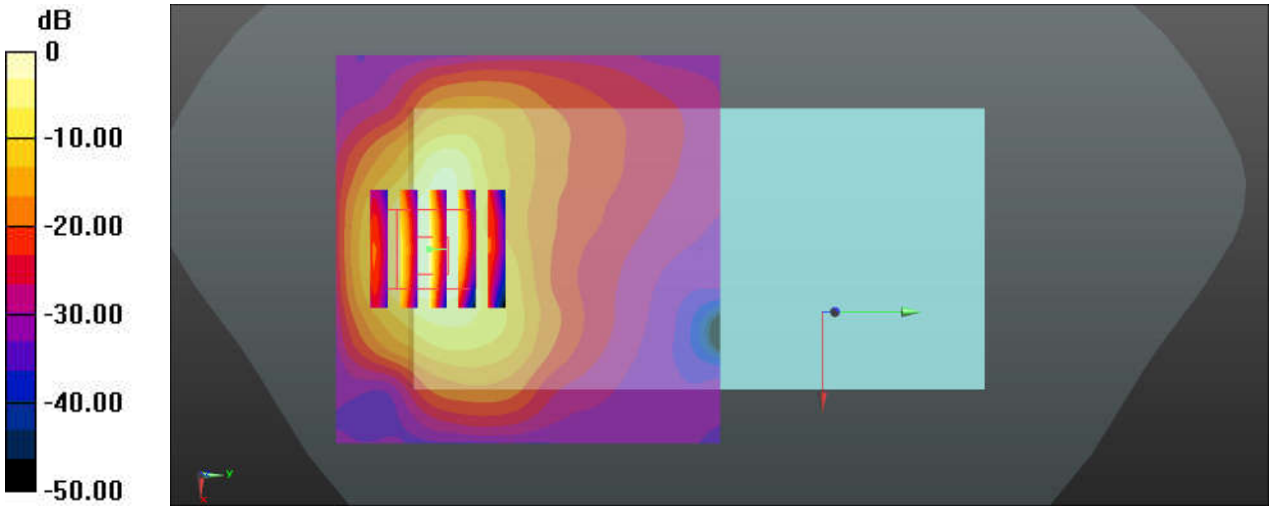
52_LTE Band 2_20M_QPSK_1RB_0Offset_Back_0mm_Extremity On_Ch19100

Communication System: UID 0, LTE-FDD (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.537 S/m; ε_r = 53.815; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(7.07, 7.07, 7.07); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); 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) = 6.60 W/kg

Ch19100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 75.64 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 13.0 W/kg
SAR(1 g) = 6.01 W/kg; SAR(10 g) = 2.38 W/kg
Maximum value of SAR (measured) = 8.58 W/kg



0 dB = 6.60 W/kg = 8.20 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.19

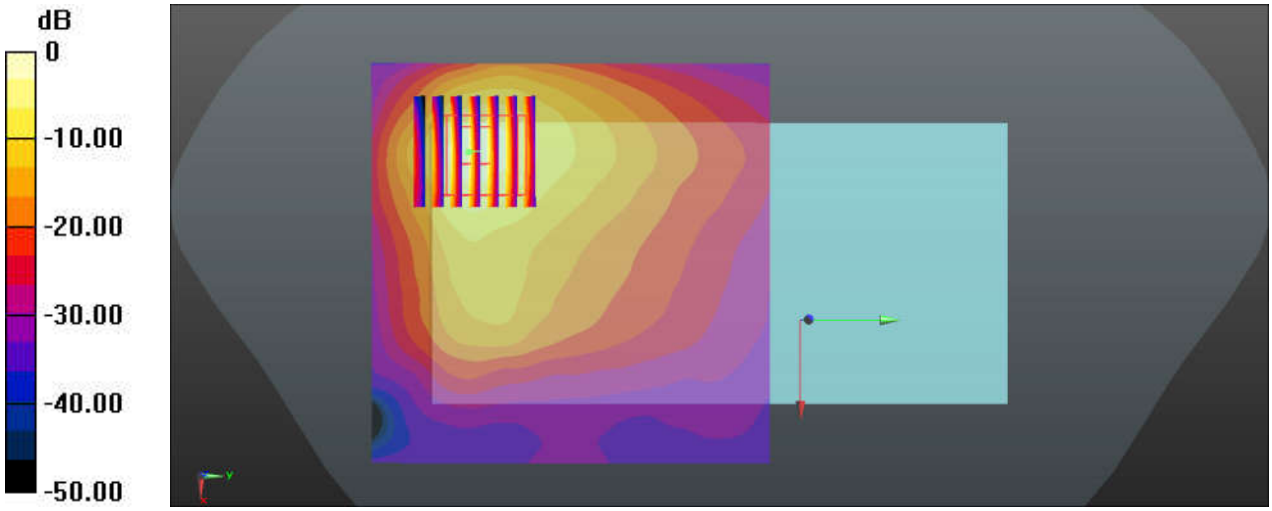
53_LTE Band 7_20M_QPSK_100RB_0Offset_Back_Extremity On_0mm_Ch21350

Communication System: UID 0, LTE-FDD (0); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: MSL_2600 Medium parameters used: f = 2560 MHz; σ = 2.166 S/m; ε_r = 51.393; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3843; ConvF(6.7, 6.7, 6.7); Calibrated: 2018.9.27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2018.5.11
- Phantom: SAM2; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch21350/Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 10.3 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 67.15 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 21.2 W/kg
SAR(1 g) = 6.99 W/kg; SAR(10 g) = 2.58 W/kg
Maximum value of SAR (measured) = 9.66 W/kg



0 dB = 10.3 W/kg = 10.13 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.22

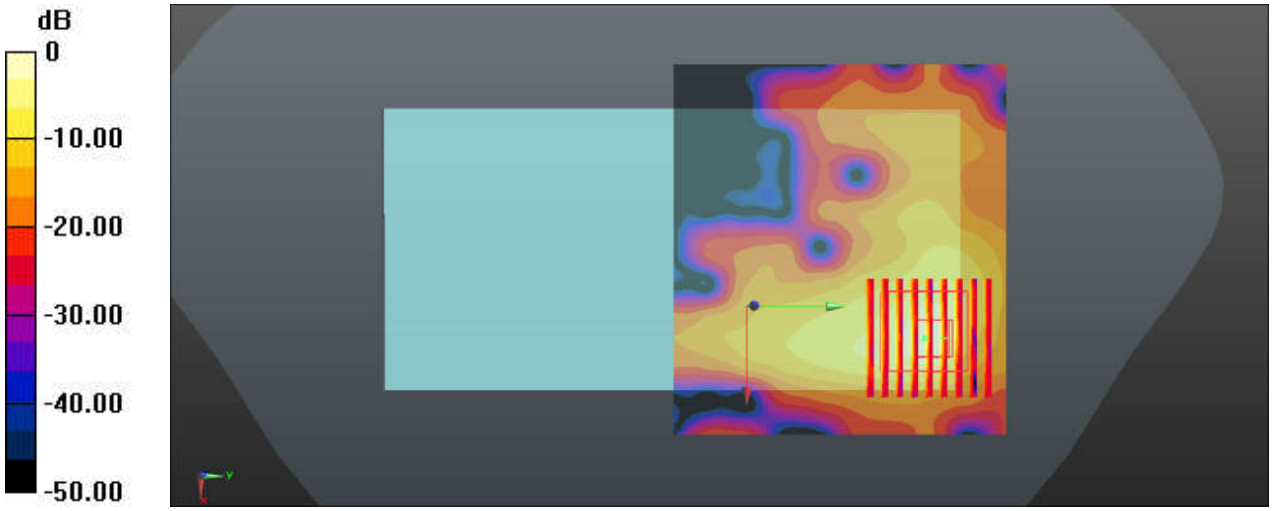
54_WLAN5GHz_802.11n-HT40 MCS0_Back_0mm_Ch54

Communication System: UID 0, 802.11n (0); Frequency: 5270 MHz;Duty Cycle: 1:1.148
Medium: MSL_5000 Medium parameters used: f = 5270 MHz; σ = 5.569 S/m; ε_r = 47.61; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.8 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(4.4, 4.4, 4.4); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch54/Area Scan (101x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.84 W/kg

Ch54/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 23.64 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 11.5 W/kg
SAR(1 g) = 2.01 W/kg; SAR(10 g) = 0.481 W/kg
Maximum value of SAR (measured) = 3.87 W/kg



0 dB = 2.84 W/kg = 4.53 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.10.22

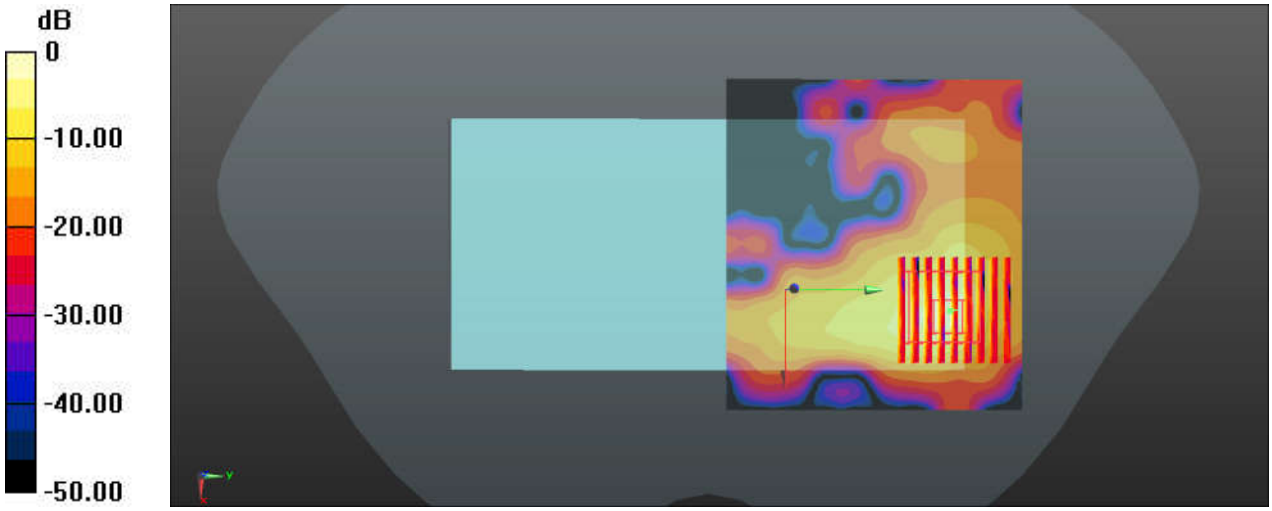
55_WLAN5GHz_802.11n-HT40 MCS0_Back_0mm_Ch134

Communication System: UID 0, 802.11n (0); Frequency: 5670 MHz;Duty Cycle: 1:1.148
Medium: MSL_5000 Medium parameters used: f = 5670 MHz; σ = 6.054 S/m; ε_r = 47.246; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃； Liquid Temperature：22.7 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3857; ConvF(3.98, 3.98, 3.98); Calibrated: 2018.5.31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.11 (7439)

Ch134/Area Scan (101x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 3.37 W/kg

Ch134/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 24.59 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 12.5 W/kg
SAR(1 g) = 1.98 W/kg; SAR(10 g) = 0.484 W/kg
Maximum value of SAR (measured) = 3.39 W/kg



0 dB = 3.37 W/kg = 5.28 dBW/kg