Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

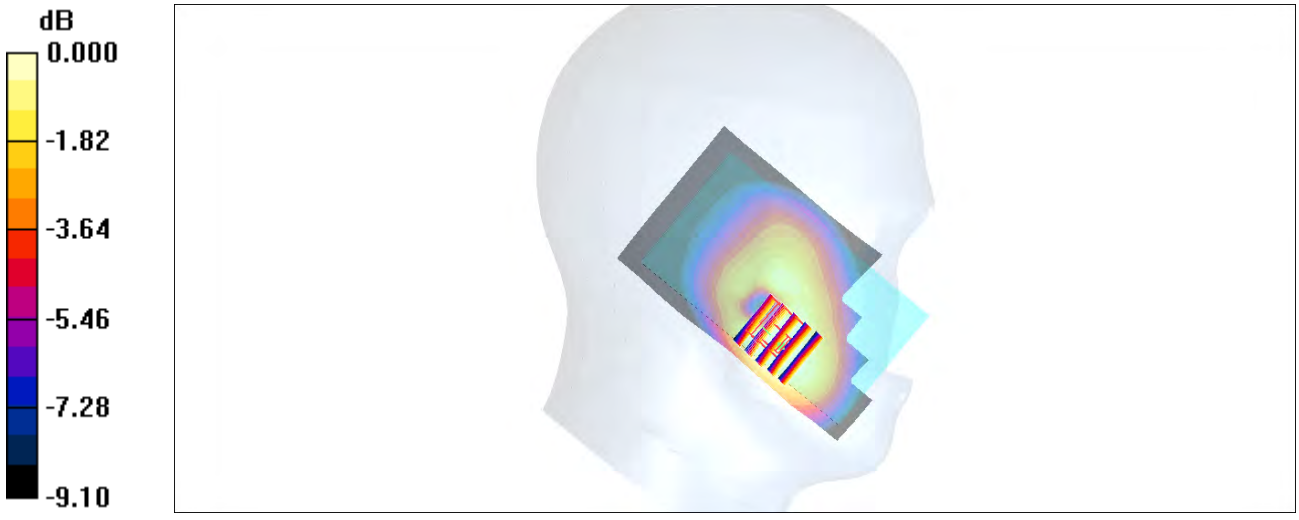
#01_GSM850_GPRS (3 Tx slots)_Left Cheek_Ch251

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:2.77
Medium: HSL_850_141003 Medium parameters used: f = 849 MHz; σ = 0.898 mho/m; ε_r = 41.9; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(9.76, 9.76, 9.76); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Left; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch251/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.532 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.1 V/m; Power Drift = -0.004 dB
Peak SAR (extrapolated) = 0.556 W/kg
SAR(1 g) = 0.424 mW/g; SAR(10 g) = 0.315 mW/g
Maximum value of SAR (measured) = 0.464 mW/g



0 dB = 0.464mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

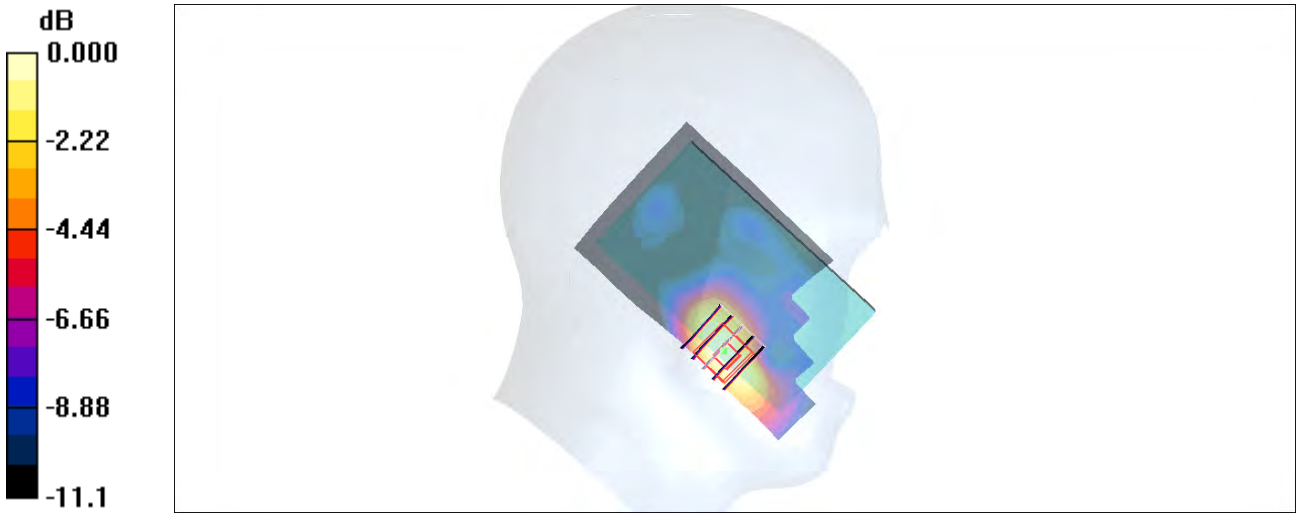
#02_GSM1900_GPRS (4 Tx slots)_Left Cheek_Ch810

Communication System: PCS; Frequency: 1909.8 MHz;Duty Cycle: 1:2.08
Medium: HSL_1900_141003 Medium parameters used: f = 1910 MHz; σ = 1.46 mho/m; ε_r = 39.7; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.3 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(8.13, 8.13, 8.13); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Left; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch810/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.696 mW/g

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.7 V/m; Power Drift = 0.042 dB
Peak SAR (extrapolated) = 0.902 W/kg
SAR(1 g) = 0.571 mW/g; SAR(10 g) = 0.338 mW/g
Maximum value of SAR (measured) = 0.678 mW/g



0 dB = 0.678mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

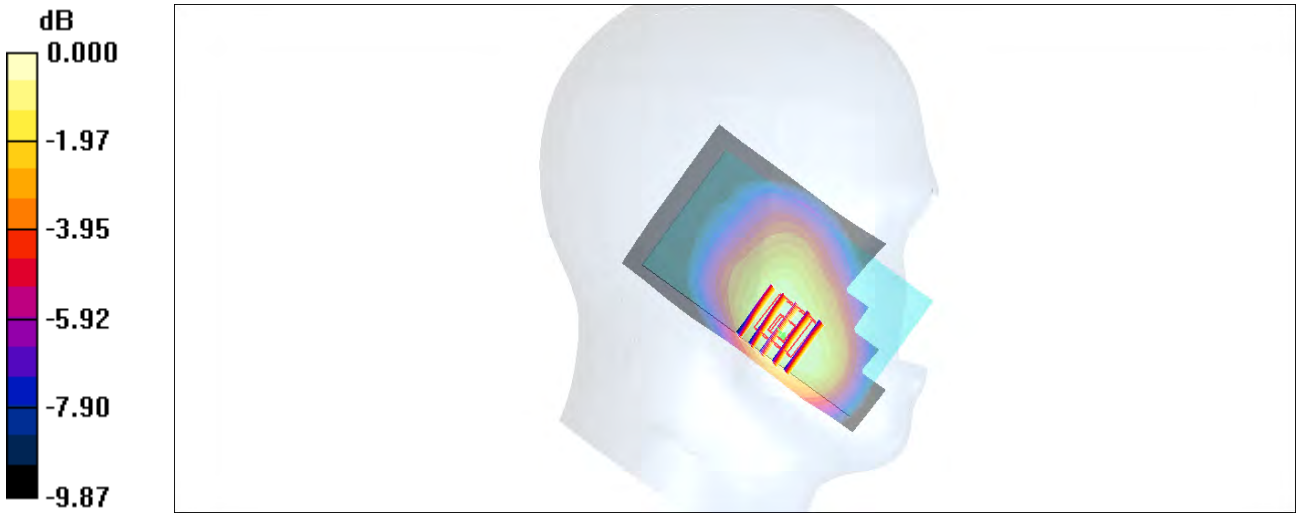
#03_WCDMA V_RMC 12.2Kbps_Left Cheek_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: HSL_850_141003 Medium parameters used : f = 836.4 MHz; σ = 0.887 mho/m; ε_r = 42; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(9.76, 9.76, 9.76); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Left; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch4182/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.538 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.3 V/m; Power Drift = 0.164 dB
Peak SAR (extrapolated) = 0.627 W/kg
SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.365 mW/g
Maximum value of SAR (measured) = 0.543 mW/g



0 dB = 0.543mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

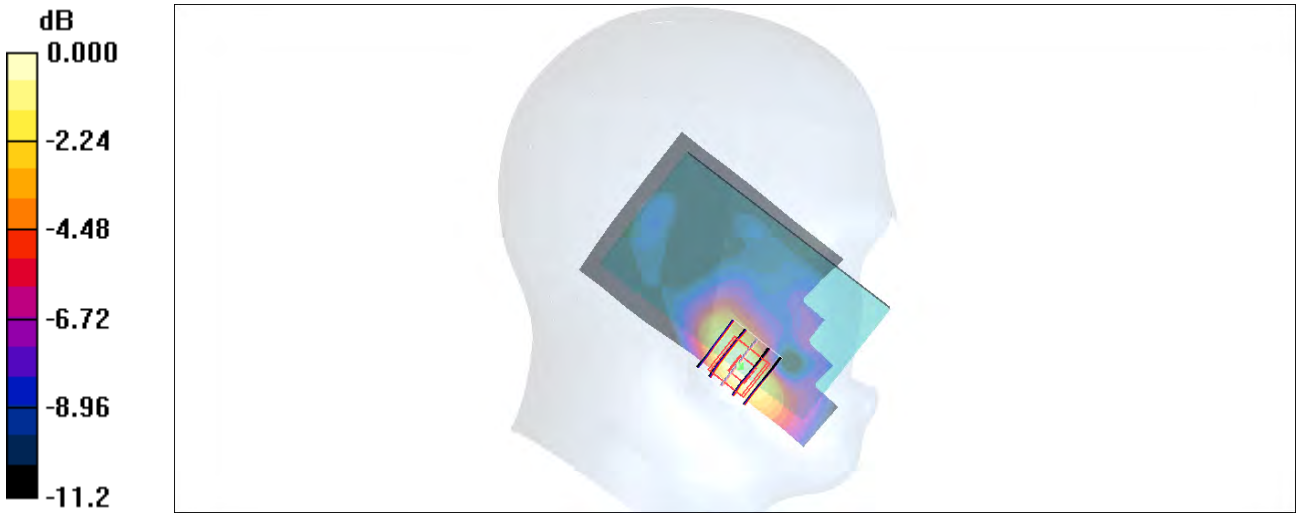
#04_WCDMA II_RMC 12.2Kbps_Left Cheek_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: HSL_1900_141003 Medium parameters used: f = 1908 MHz; σ = 1.45 mho/m; ε_r = 39.7; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(8.13, 8.13, 8.13); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Left; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch9538/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.23 mW/g

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.9 V/m; Power Drift = 0.009 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.583 mW/g
Maximum value of SAR (measured) = 1.23 mW/g



0 dB = 1.23mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

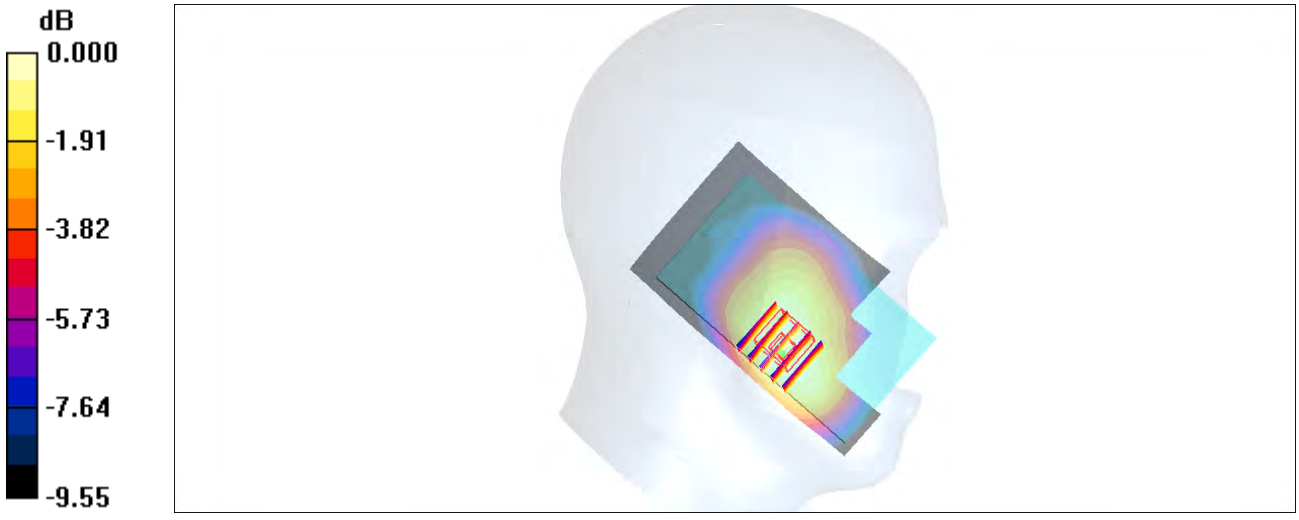
#05_LTE Band 17_10M_QPSK_1RB_0Offset_Left Cheek_Ch23790

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1
Medium: HSL_750_141003 Medium parameters used: f = 710 MHz; σ = 0.869 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：22.7 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3955; ConvF(10.24, 10.24, 10.24); Calibrated: 2013/11/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2013/11/7
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch23790/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.351 mW/g

Ch23790/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.7 V/m; Power Drift = 0.102 dB
Peak SAR (extrapolated) = 0.379 W/kg
SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.228 mW/g
Maximum value of SAR (measured) = 0.343 mW/g



0 dB = 0.343mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

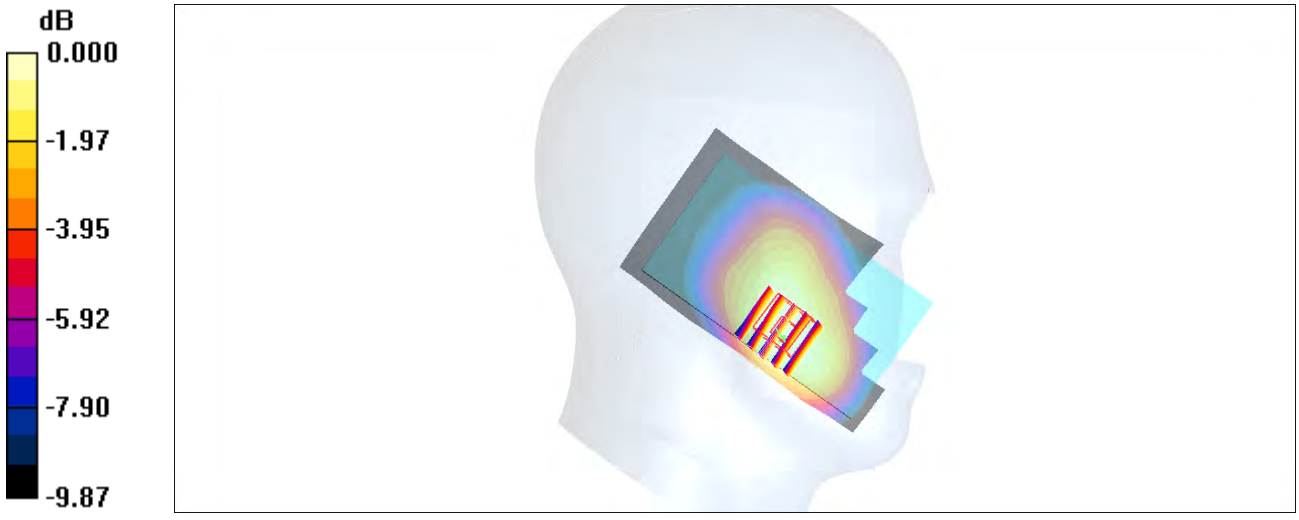
#06_LTE Band 5_10M_QPSK_1RB_0Offset_Left Cheek_Ch20525

Communication System: LTE; Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: HSL_850_141003 Medium parameters used: f = 836.5 MHz; σ = 0.887 mho/m; ε_r = 42; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(9.76, 9.76, 9.76); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Left; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch20525/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.454 mW/g

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.5 V/m; Power Drift = 0.054 dB
Peak SAR (extrapolated) = 0.511 W/kg
SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.307 mW/g
Maximum value of SAR (measured) = 0.446 mW/g



0 dB = 0.446mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

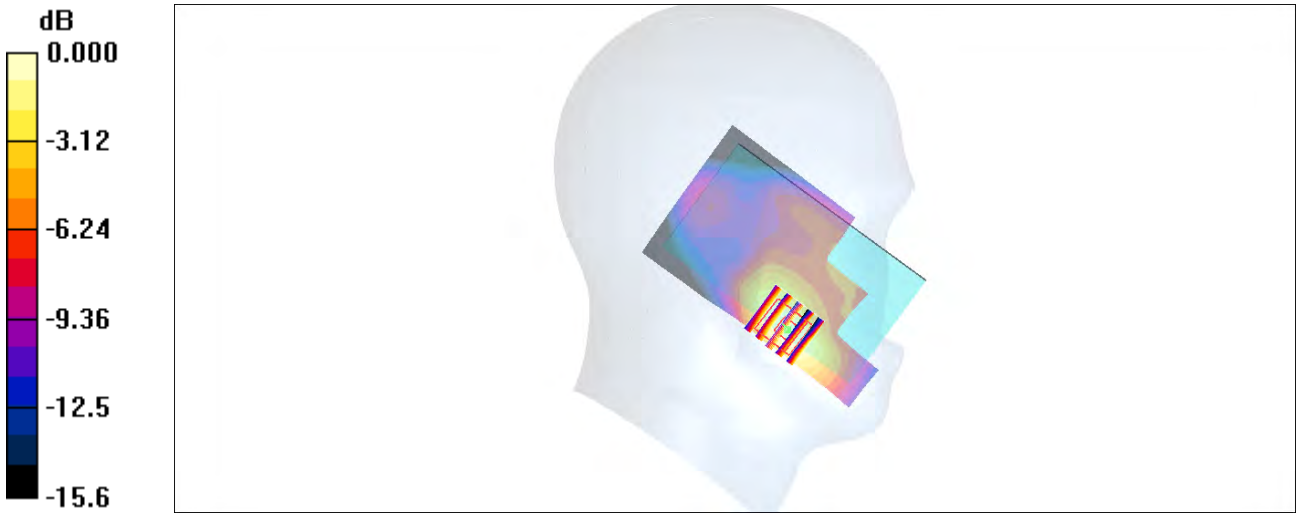
#07_LTE Band 4_20M_QPSK_1RB_0Offset_Left Cheek_Ch20300

Communication System: LTE; Frequency: 1745 MHz;Duty Cycle: 1:1
Medium: HSL_1750_141003 Medium parameters used: f = 1745 MHz; σ = 1.38 mho/m; ε_r = 38.3; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3925; ConvF(8.54, 8.54, 8.54); Calibrated: 2014/5/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2014/5/19
- Phantom: SAM_Left; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch20300/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.950 mW/g

Ch20300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.9 V/m; Power Drift = 0.021 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.801 mW/g; SAR(10 g) = 0.480 mW/g
Maximum value of SAR (measured) = 0.970 mW/g



0 dB = 0.970mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

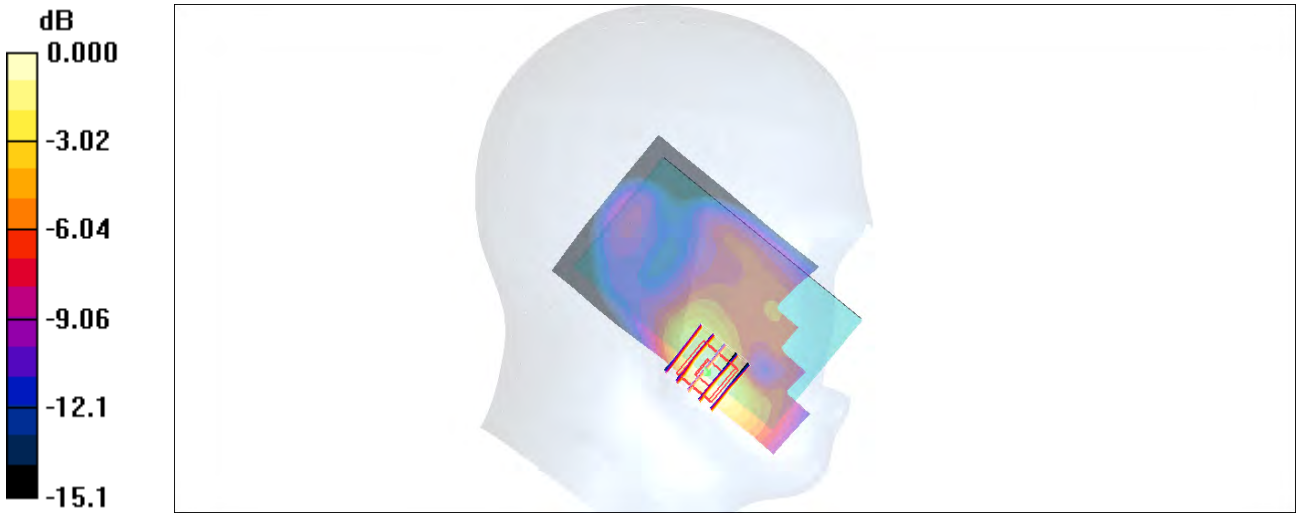
#08_LTE Band 2_20M_QPSK_1RB_0Offset_Left Cheek_Ch18700

Communication System: LTE; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: HSL_1900_141003 Medium parameters used: f = 1860 MHz; σ = 1.42 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(8.13, 8.13, 8.13); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Left; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch18700/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.07 mW/g

Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.2 V/m; Power Drift = 0.077 dB
Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.847 mW/g; SAR(10 g) = 0.508 mW/g
Maximum value of SAR (measured) = 1.10 mW/g



0 dB = 1.10mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/7

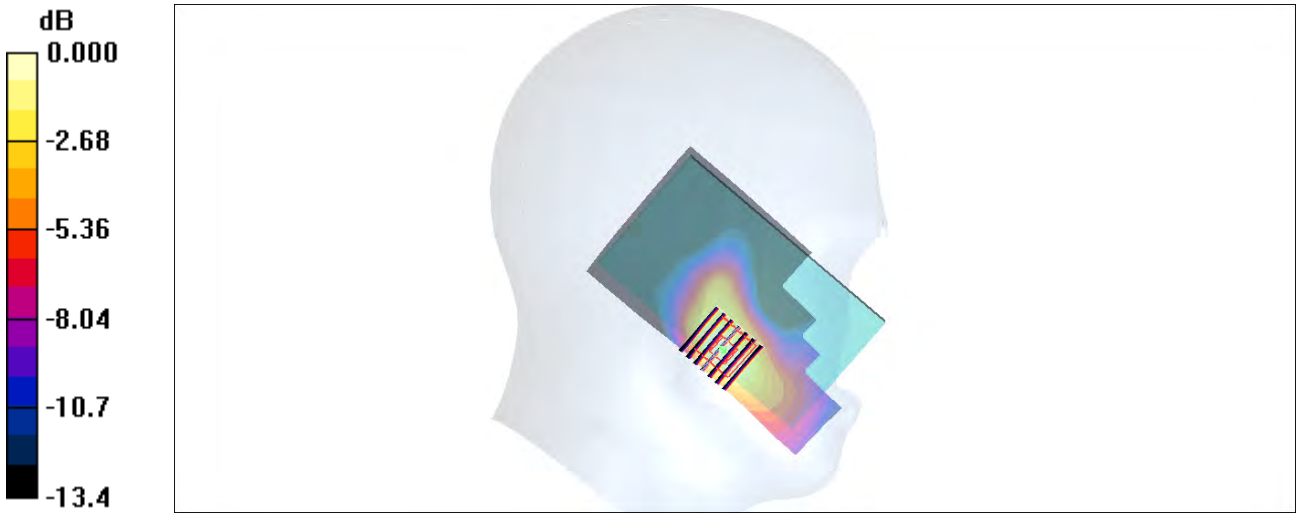
#09_LTE Band 7_20M_QPSK_1RB_0Offset_Left Cheek_Ch21100

Communication System: LTE; Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: HSL_2600_141007 Medium parameters used: f = 2535 MHz; σ = 1.92 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY4 Configuration:
- Probe: ES3DV3 - SN3296; ConvF(4.71, 4.71, 4.71); Calibrated: 2014/4/30
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2014/8/21
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch21100/Area Scan (71x121x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 1.52 mW/g

Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.0 V/m; Power Drift = 0.057 dB
Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.648 mW/g
Maximum value of SAR (measured) = 1.51 mW/g



0 dB = 1.51mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/9/3

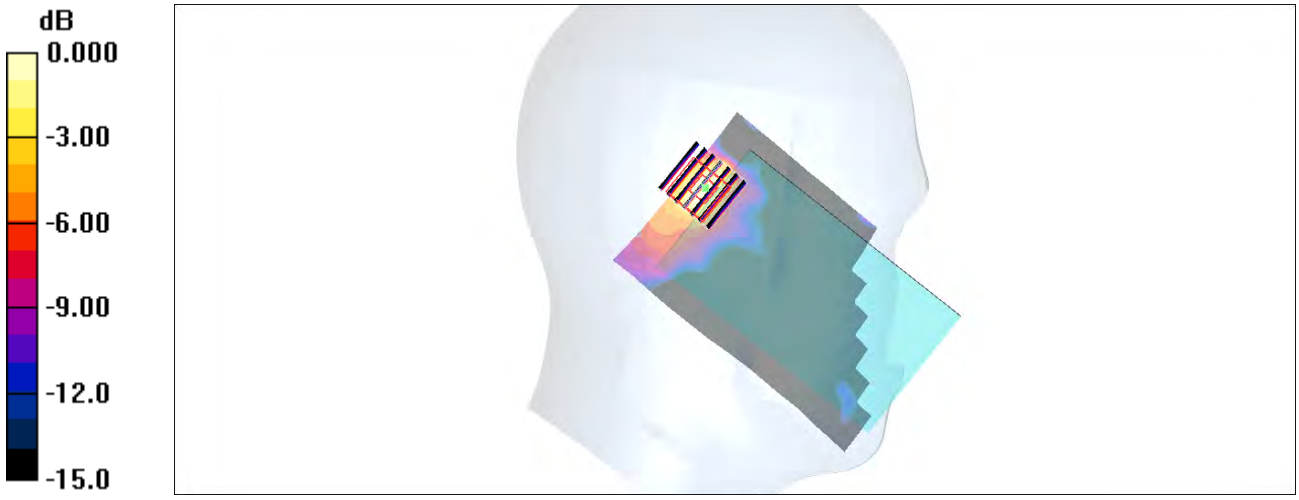
#10_WLAN2.4GHz_802.11b 1Mbps_Left Tilted_Ch6

Communication System: 802.11b ; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: HSL_2450_140903 Medium parameters used: f = 2437 MHz; σ = 1.82 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3931; ConvF(7.59, 7.59, 7.59); Calibrated: 2013/9/10
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2014/5/15
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch6/Area Scan (81x131x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.716 mW/g

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.4 V/m; Power Drift = 0.018 dB
Peak SAR (extrapolated) = 1.26 W/kg
SAR(1 g) = 0.424 mW/g; SAR(10 g) = 0.168 mW/g
Maximum value of SAR (measured) = 0.687 mW/g



0 dB = 0.687mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/7

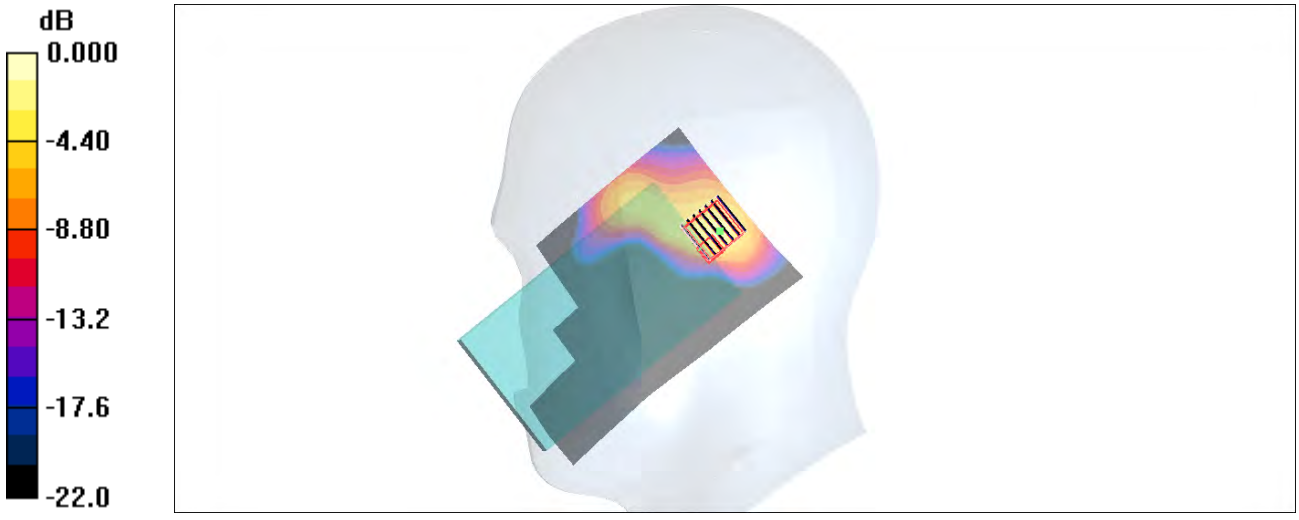
#11_WLAN5GHz_802.11a 6Mbps_Right Cheek_Ch48

Communication System: 802.11a; Frequency: 5240 MHz;Duty Cycle: 1:1.036
Medium: HSL_5G_141007 Medium parameters used: f = 5240 MHz; σ = 4.82 mho/m; ε_r = 35.3; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(5.03, 5.03, 5.03); Calibrated: 2013/11/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch48/Area Scan (101x181x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.342 mW/g

Ch48/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.98 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.961 W/kg
SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.061 mW/g
Maximum value of SAR (measured) = 0.538 mW/g



0 dB = 0.538mW/g

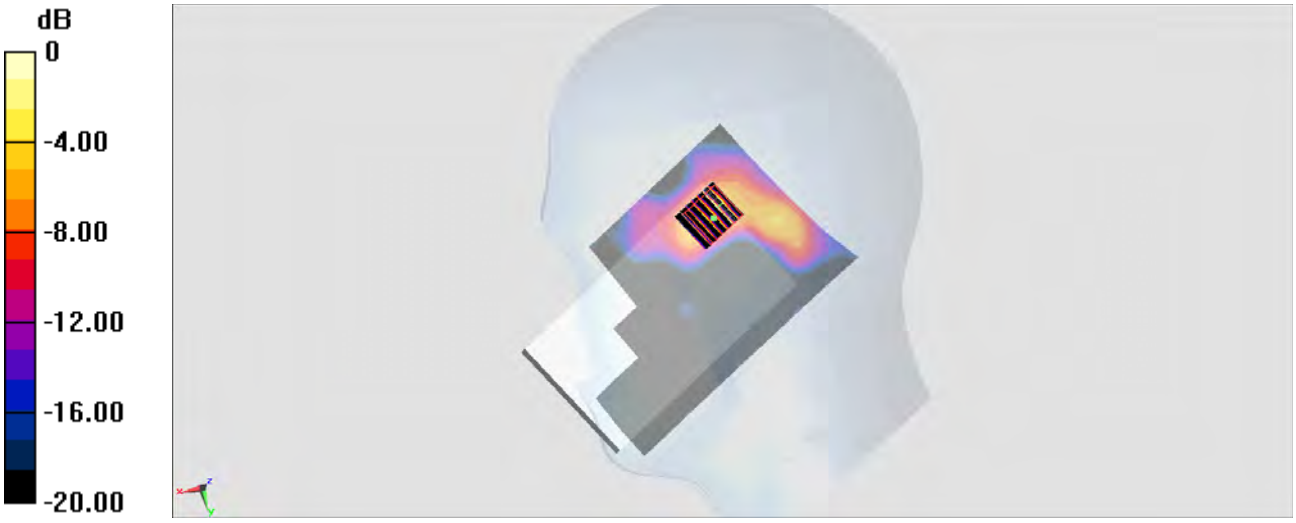
#12_WLAN5GHz_802.11n-HT20 MCS0_Right Cheek_Ch64

Communication System: 802.11n; Frequency: 5320 MHz;Duty Cycle: 1:1.019
Medium: HSL_5G_141006 Medium parameters used: f = 5320 MHz; σ = 4.917 S/m; ε_r = 35.252; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration
- Probe: EX3DV4 - SN3955; ConvF(4.86, 4.86, 4.86); Calibrated: 2013/11/12;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2013/11/7
- Phantom: SAM LEFT; Type: QD000P40CD; Serial: TP:1718
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Configuration/Ch64/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.363 W/kg

Configuration/Ch64/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.497 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.839 W/kg



0 dB = 0.839 W/kg = -0.76 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/7

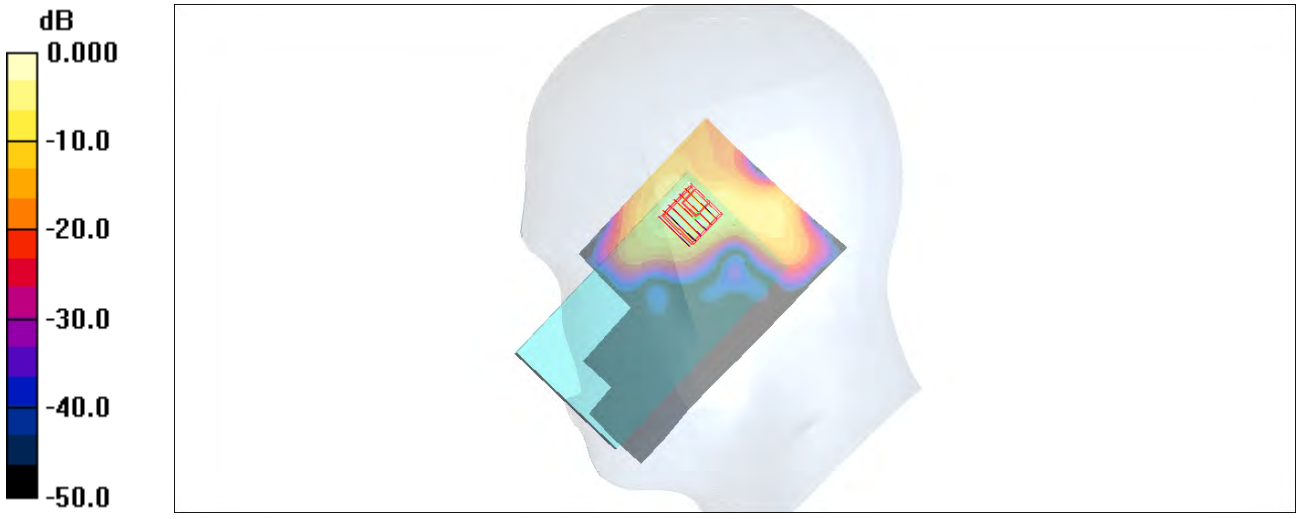
#13_WLAN5GHz_802.11a 6Mbps_Right Cheek_Ch100

Communication System: 802.11a; Frequency: 5500 MHz;Duty Cycle: 1:1.036
Medium: HSL_5G_141007 Medium parameters used: f = 5500 MHz; σ = 5.09 mho/m; ε_r = 34.9; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(4.73, 4.73, 4.73); Calibrated: 2013/11/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch100/Area Scan (101x181x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.457 mW/g

Ch100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.37 V/m; Power Drift = 0.158 dB
Peak SAR (extrapolated) = 2.47 W/kg
SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.101 mW/g
Maximum value of SAR (measured) = 1.39 mW/g



0 dB = 1.39mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/7

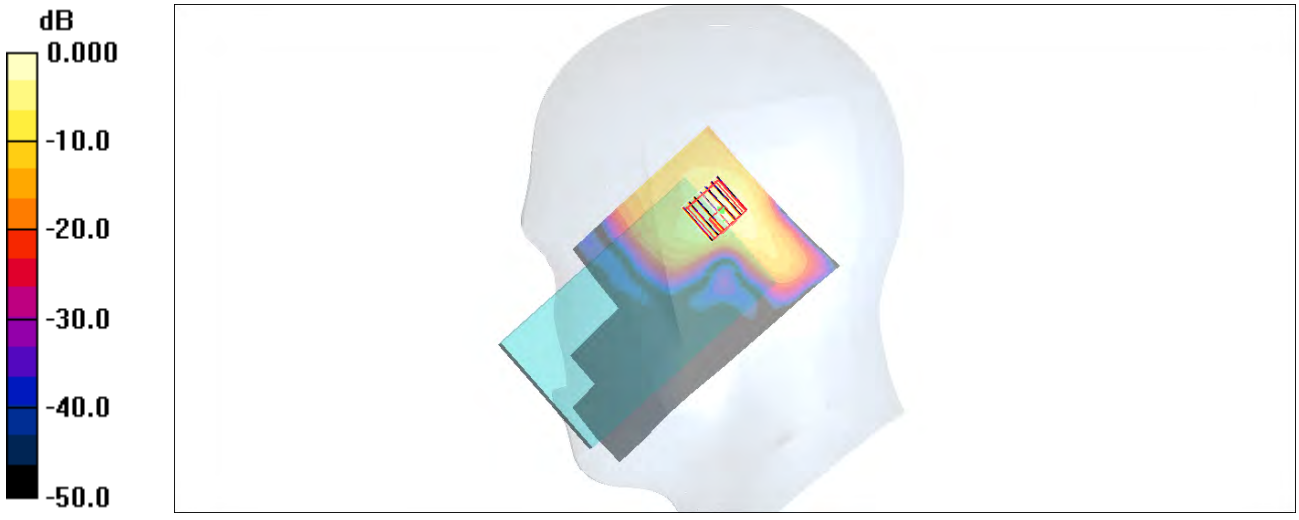
#14_WLAN5GHz_802.11a 6Mbps_Right Cheek_Ch157

Communication System: 802.11a; Frequency: 5785 MHz;Duty Cycle: 1:1.036
Medium: HSL_5G_141007 Medium parameters used: f = 5785 MHz; σ = 5.36 mho/m; ε_r = 34.3; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(4.55, 4.55, 4.55); Calibrated: 2013/11/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch157/Area Scan (101x181x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.470 mW/g

Ch157/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 10.7 V/m; Power Drift = 0.097 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.077 mW/g
Maximum value of SAR (measured) = 0.819 mW/g



0 dB = 0.819mW/g

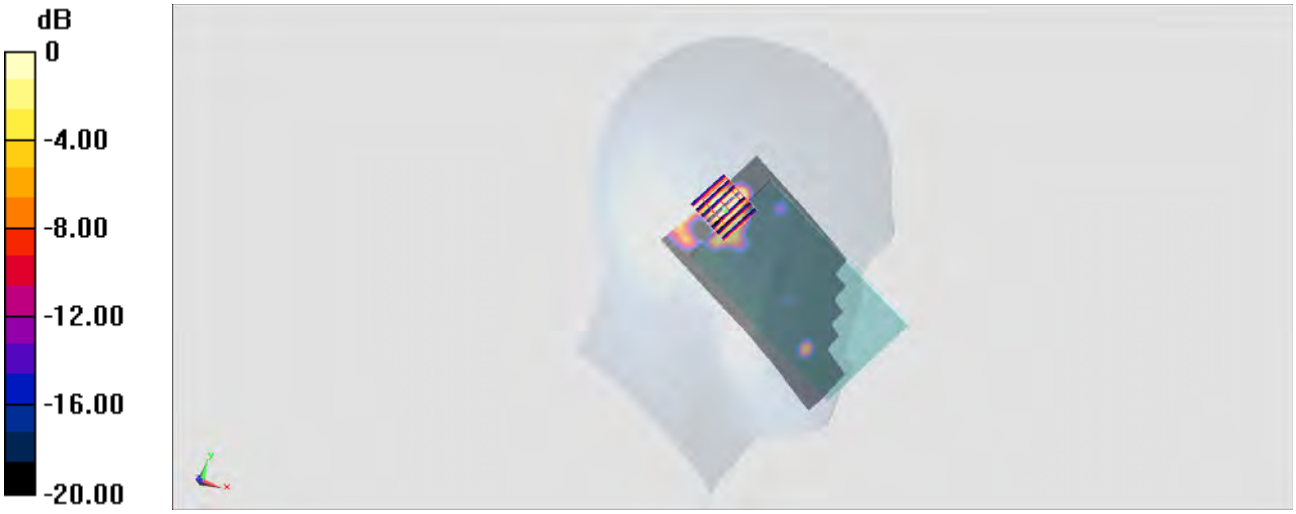
#15_Bluetooth_1Mbps_Left Tilted_Ch39

Communication System: Bluetooth; Frequency: 2441 MHz;Duty Cycle: 1:1.2
Medium: HSL_2450_141006 Medium parameters used: f = 2441 MHz; σ = 1.846 S/m; ε_r = 39.267; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3931; ConvF(7.29, 7.29, 7.29); Calibrated: 2014/9/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/2/17
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch39/Area Scan (71x131x1): Measurement grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0487 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.468 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.0520 W/kg
SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.00855 W/kg
Maximum value of SAR (measured) = 0.0352 W/kg



0 dB = 0.0352 W/kg = -14.53 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

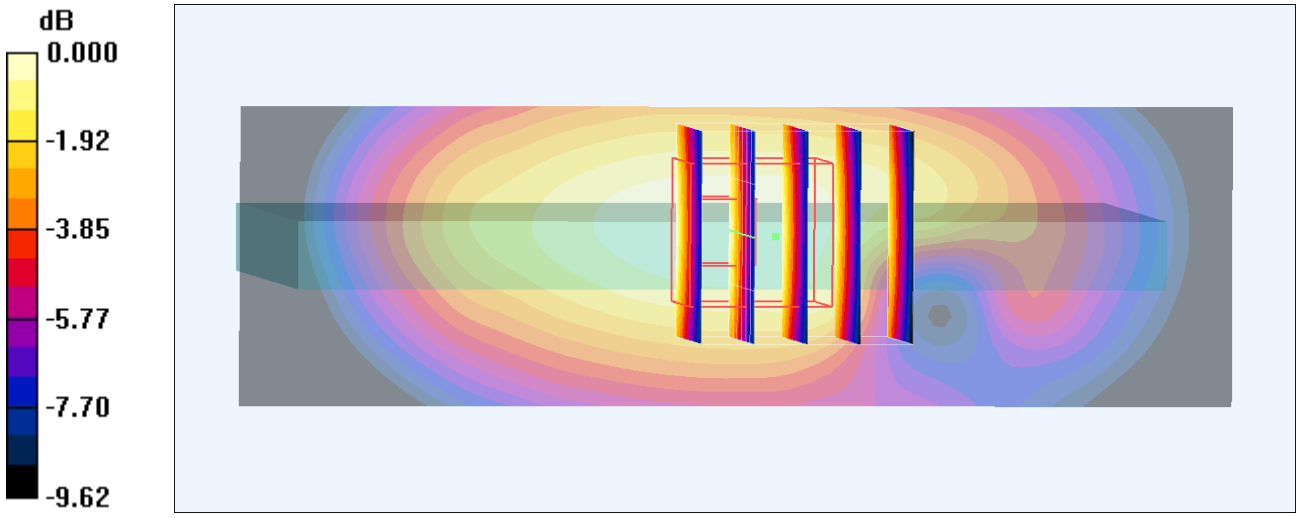
#16_GSM850_GPRS (3 Tx slots)_Left Side_1cm_Ch128

Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:2.77
Medium: MSL_850_141003 Medium parameters used : f = 824.2 MHz; σ = 0.956 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(9.61, 9.61, 9.61); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch128/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.774 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.6 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 0.873 W/kg
SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.429 mW/g
Maximum value of SAR (measured) = 0.760 mW/g



0 dB = 0.760mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

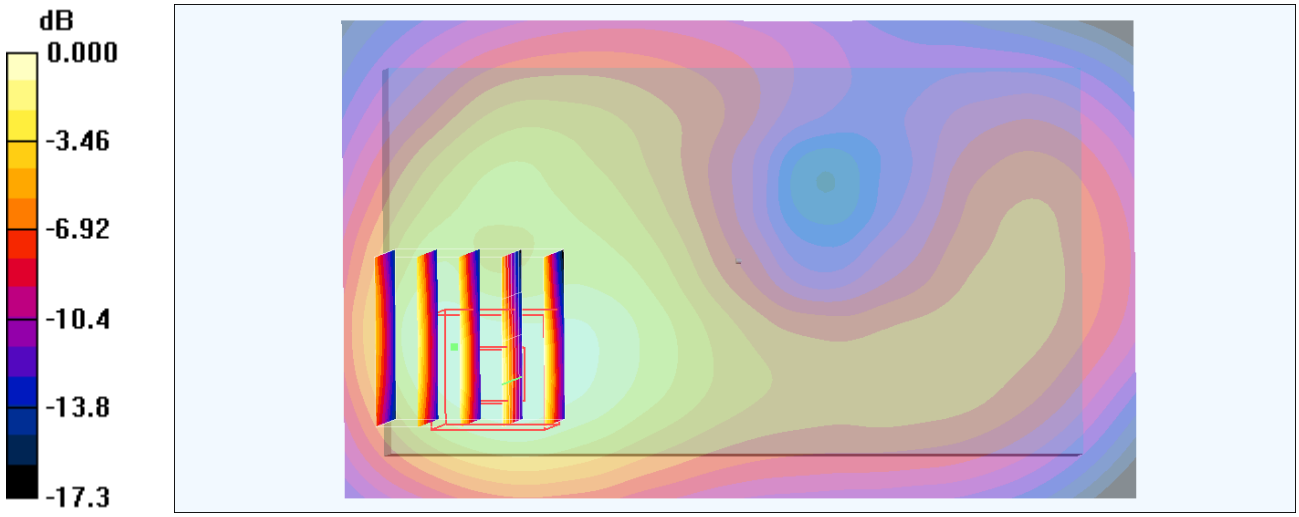
#17_GSM1900_GPRS (4 Tx slots)_Back_1cm_Ch512

Communication System: PCS; Frequency: 1850.2 MHz;Duty Cycle: 1:2.08
Medium: MSL_1900_141003 Medium parameters used : f = 1850.2 MHz; σ = 1.49 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(7.95, 7.95, 7.95); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch512/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.871 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.8 V/m; Power Drift = -0.090 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.722 mW/g; SAR(10 g) = 0.420 mW/g
Maximum value of SAR (measured) = 0.867 mW/g



0 dB = 0.867mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

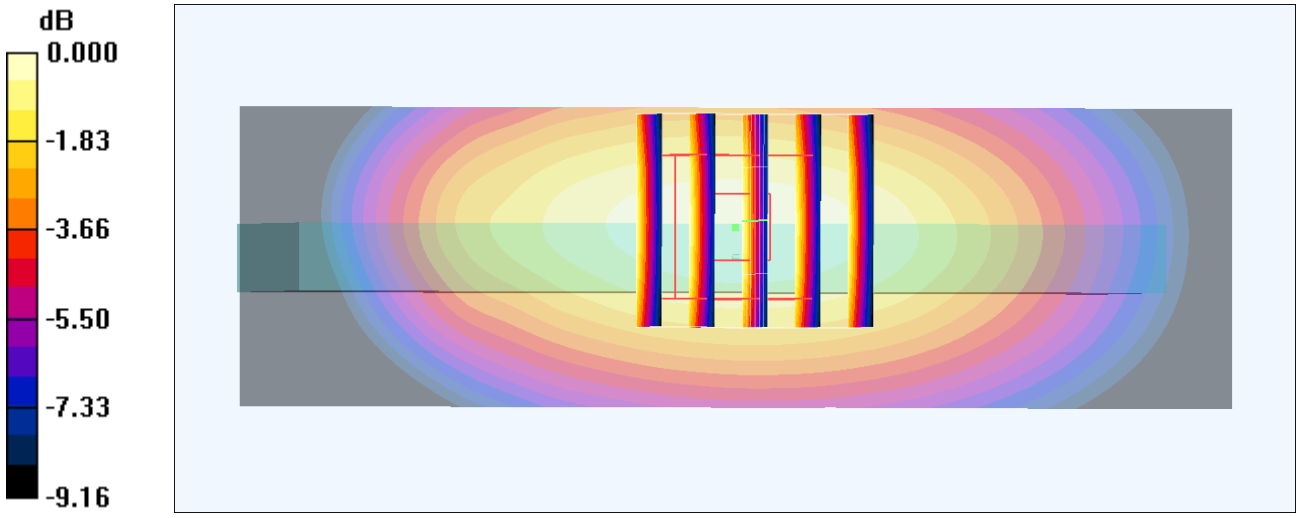
#18_WCDMA V_RMC 12.2Kbps_Left Side_1cm_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850_141003 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(9.61, 9.61, 9.61); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch4182/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.745 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.3 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 0.864 W/kg
SAR(1 g) = 0.615 mW/g; SAR(10 g) = 0.427 mW/g
Maximum value of SAR (measured) = 0.751 mW/g



0 dB = 0.751mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

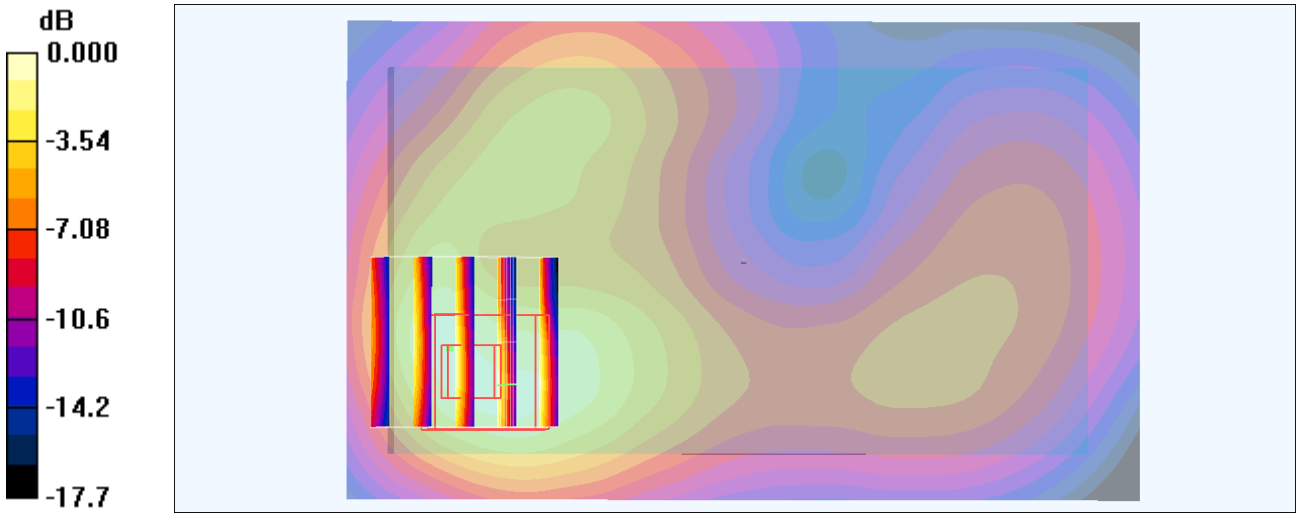
#19_WCDMA II_RMC 12.2Kbps_Back_1cm_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900_141003 Medium parameters used : f = 1852.4 MHz; σ = 1.5 mho/m; ε_r = 52.2;
ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(7.95, 7.95, 7.95); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.42 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.5 V/m; Power Drift = 0.085 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.666 mW/g
Maximum value of SAR (measured) = 1.55 mW/g



0 dB = 1.55mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/9/1

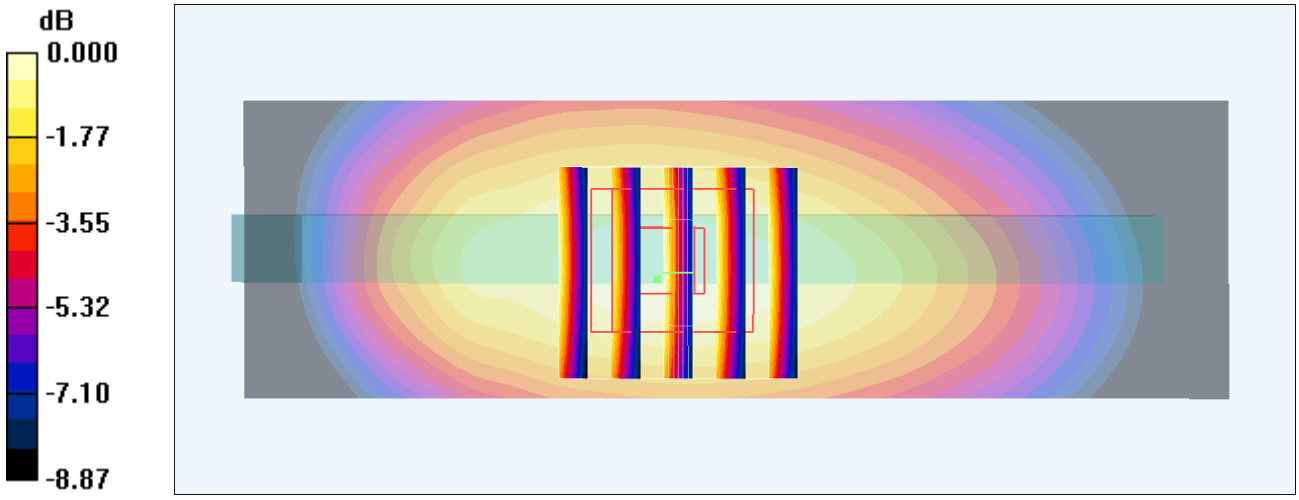
#20_LTE Band 17_10M_QPSK_1RB_0Offset_Left Side_1cm_Ch23790

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1
Medium: MSL_750_140901 Medium parameters used: f = 710 MHz; σ = 0.934 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3955; ConvF(9.89, 9.89, 9.89); Calibrated: 2013/11/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2013/11/7
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch23790/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.492 mW/g

Ch23790/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.8 V/m; Power Drift = -0.009 dB
Peak SAR (extrapolated) = 0.577 W/kg
SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.291 mW/g
Maximum value of SAR (measured) = 0.501 mW/g



0 dB = 0.501mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/9/2

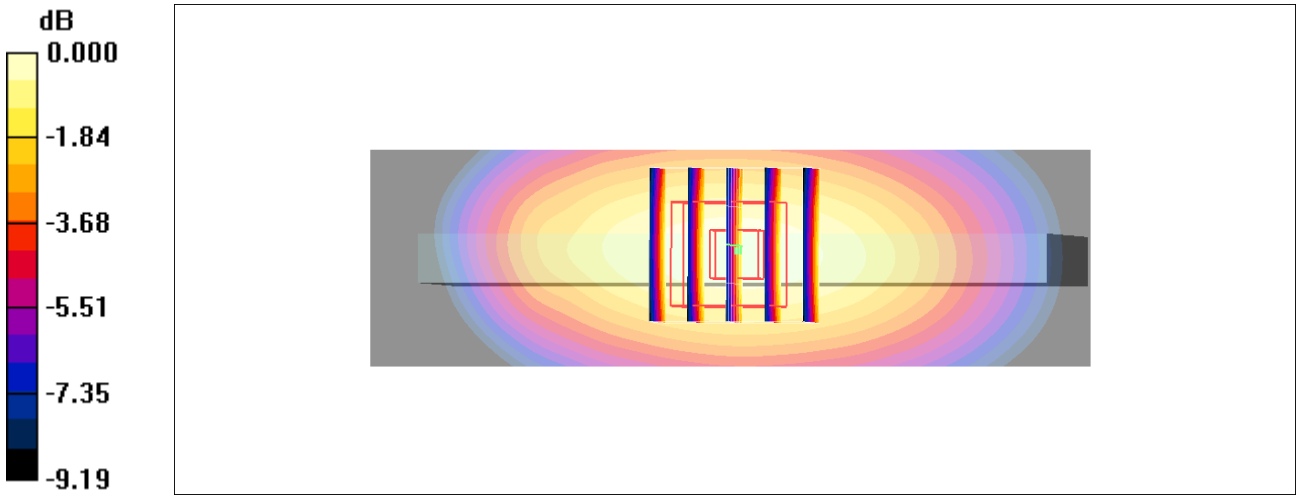
#21_LTE Band 5_10M_QPSK_1RB_0Offset_Left Side_1cm_Ch20525

Communication System: LTE; Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: MSL_850_140902 Medium parameters used: f = 836.5 MHz; σ = 0.963 mho/m; ε_r = 54.5; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3955; ConvF(9.81, 9.81, 9.81); Calibrated: 2013/12/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2013/11/7
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch20525/Area Scan (31x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.666 mW/g

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.9 V/m; Power Drift = -0.064 dB
Peak SAR (extrapolated) = 0.800 W/kg
SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.394 mW/g
Maximum value of SAR (measured) = 0.690 mW/g



0 dB = 0.690mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

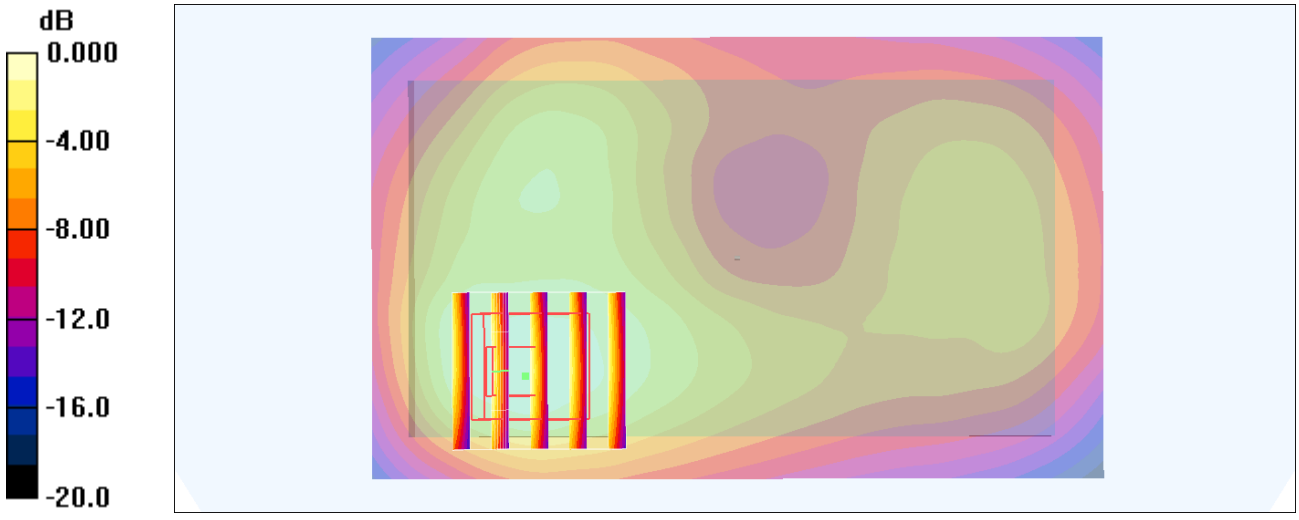
#22_LTE Band 4_20M_QPSK_1RB_0Offset_Back_1cm_Ch20175

Communication System: LTE; Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: MSL_1750_141003 Medium parameters used: f = 1732.5 MHz; σ = 1.49 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3925; ConvF(8.3, 8.3, 8.3); Calibrated: 2014/5/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2014/5/19
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch20175/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.36 mW/g

Ch20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.2 V/m; Power Drift = 0.001 dB
Peak SAR (extrapolated) = 1.80 W/kg
SAR(1 g) = 1.012 mW/g; SAR(10 g) = 0.636 mW/g
Maximum value of SAR (measured) = 1.32 mW/g



0 dB = 1.32mW/g

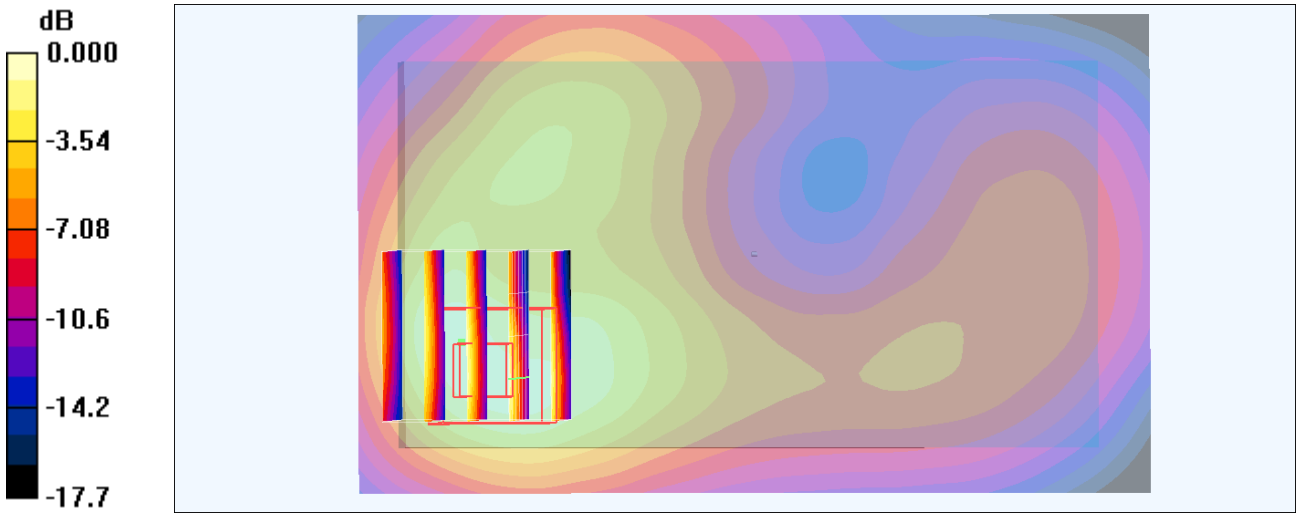
#23_LTE Band 2_20M_QPSK_1RB_0Offset_Back_1cm_Ch18700

Communication System: LTE; Frequency: 1860 MHz;Duty Cycle: 1:1
Medium: MSL_1900_141003 Medium parameters used: f = 1860 MHz; σ = 1.5 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(7.95, 7.95, 7.95); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch18700/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.28 mW/g

Ch18700/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.5 V/m; Power Drift = 0.003 dB
Peak SAR (extrapolated) = 1.65 W/kg
SAR(1 g) = 0.997 mW/g; SAR(10 g) = 0.559 mW/g
Maximum value of SAR (measured) = 1.31 mW/g



0 dB = 1.31mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

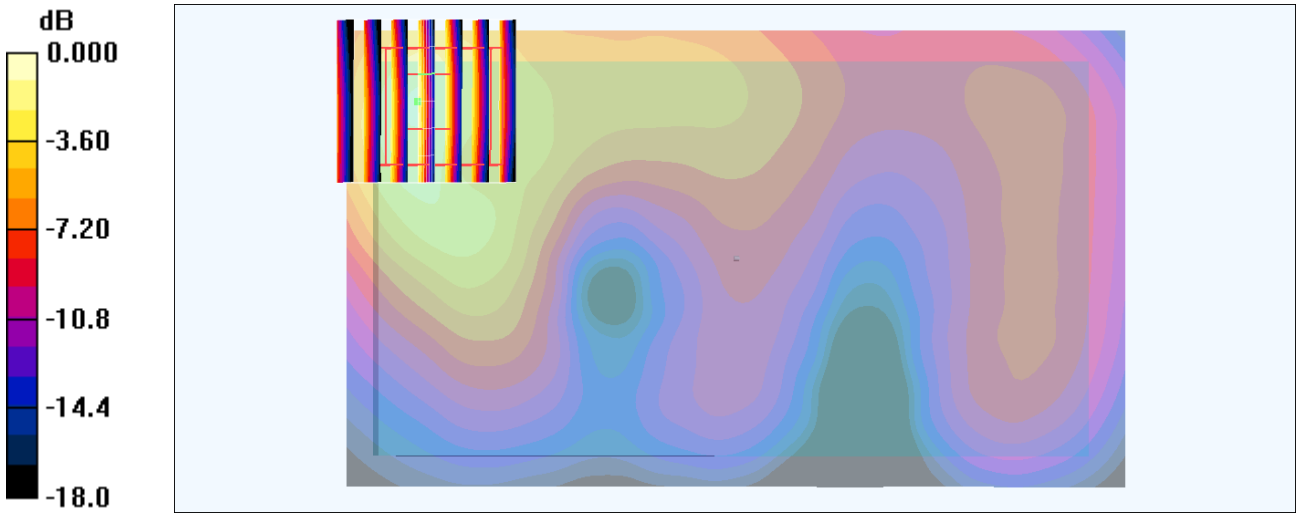
#24_LTE Band 7_20M_QPSK_1RB_0Offset_Front_1cm_Ch21350

Communication System: LTE; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: MSL_2600_141003 Medium parameters used: f = 2560 MHz; σ = 2.16 mho/m; ε_r = 51.1; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3955; ConvF(7.58, 7.58, 7.58); Calibrated: 2013/12/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2013/11/7
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch21350/Area Scan (71x121x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 1.44 mW/g

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.8 V/m; Power Drift = 0.068 dB
Peak SAR (extrapolated) = 2.42 W/kg
SAR(1 g) = 0.926 mW/g; SAR(10 g) = 0.558 mW/g
Maximum value of SAR (measured) = 1.81 mW/g



0 dB = 1.81mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/6

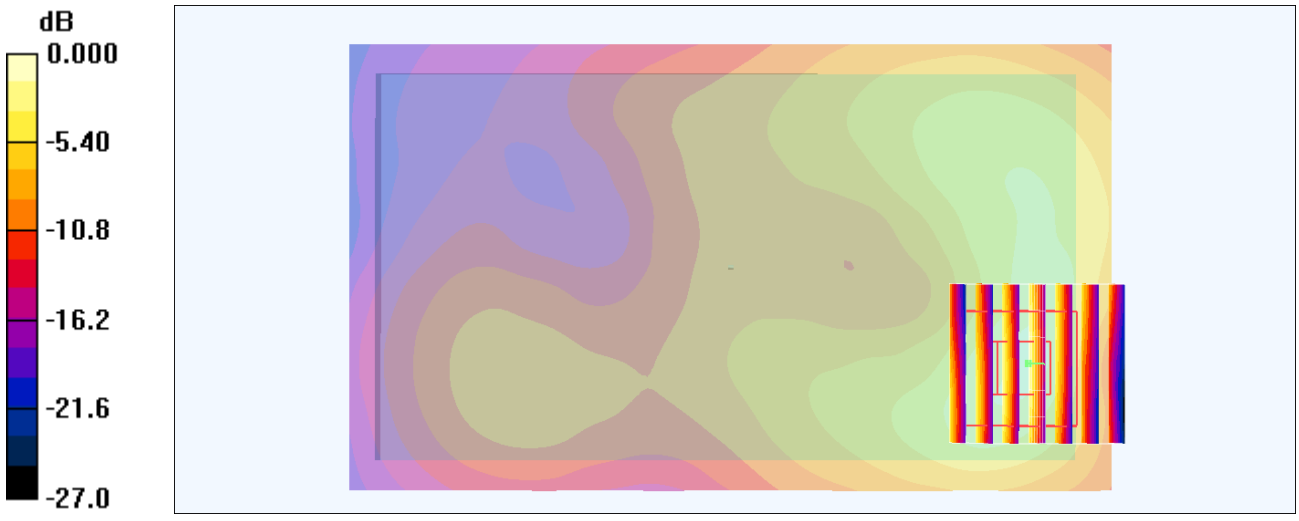
#25_WLAN2.4GHz_802.11b 1Mbps_Back_1cm_Ch11

Communication System: 802.11b ; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: MSL_2450_141006 Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; ε_r = 51.6; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.3 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3931; ConvF(7.36, 7.36, 7.36); Calibrated: 2014/9/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/2/17
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch11/Area Scan (71x121x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.756 mW/g

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.9 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.619 mW/g; SAR(10 g) = 0.266 mW/g
Maximum value of SAR (measured) = 0.962 mW/g



0 dB = 0.962mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/7

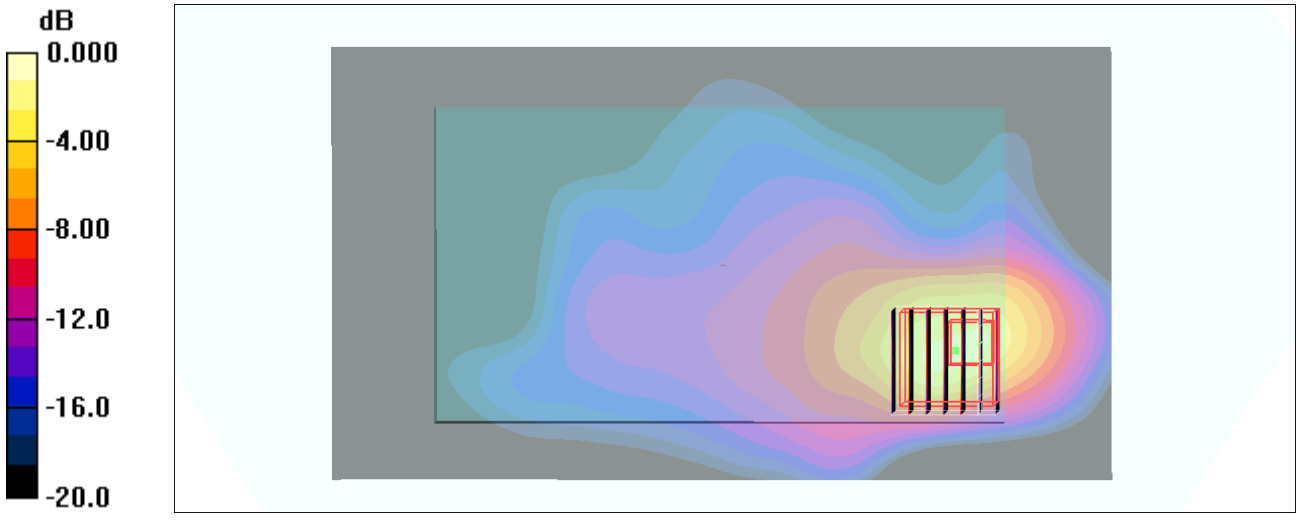
#26_WLAN5GHz_802.11a 6Mbps_Back_1cm_Ch36

Communication System: 802.11a; Frequency: 5180 MHz;Duty Cycle: 1:1.036
Medium: MSL_5G_141007 Medium parameters used: f = 5180 MHz; σ = 5.29 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(4.52, 4.52, 4.52); Calibrated: 2013/11/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch36/Area Scan (101x181x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.52 mW/g

Ch36/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 14.4 V/m; Power Drift = -0.169 dB
Peak SAR (extrapolated) = 4.02 W/kg
SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.321 mW/g
Maximum value of SAR (measured) = 2.43 mW/g



0 dB = 2.43mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/5

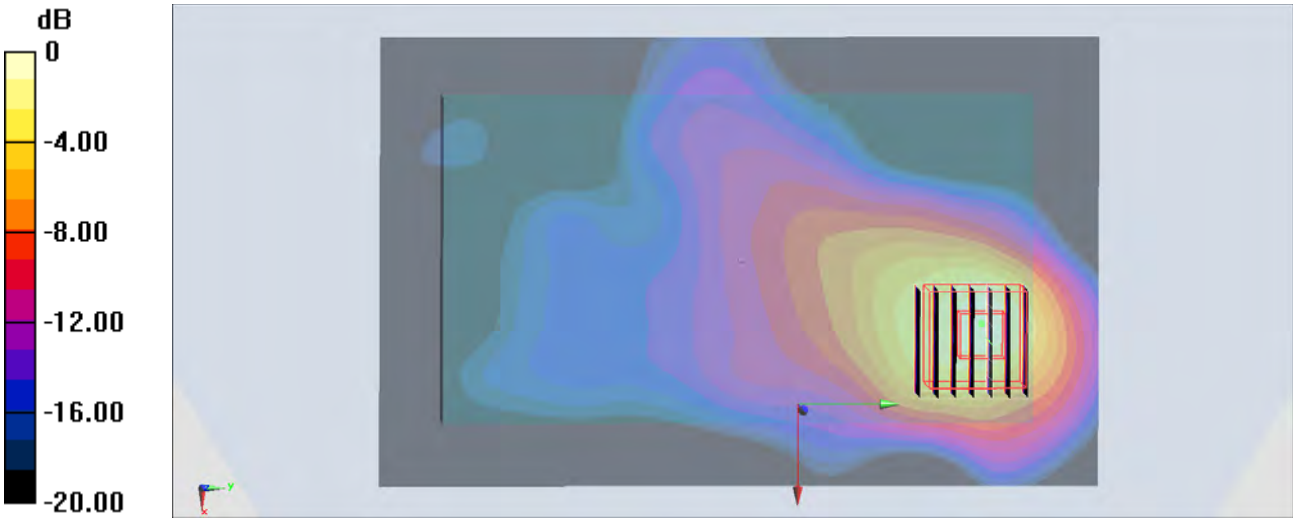
#27_WLAN5GHz_802.11a 6Mbps_Back_1cm_Ch153

Communication System: 802.11a; Frequency: 5765 MHz;Duty Cycle: 1:1.036
Medium: MSL_5G_141005 Medium parameters used: f = 5765 MHz; σ = 6.212 S/m; ε_r = 46.539; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration
- Probe: EX3DV4 - SN3954; ConvF(4.08, 4.08, 4.08); Calibrated: 2013/11/4;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_RIGHT; Type: QD000P40CD; Serial: 1719
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Configuration/Ch153/Area Scan (101x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.44 W/kg

Configuration/Ch153/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 14.452 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 2.57 W/kg
SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.229 W/kg
Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

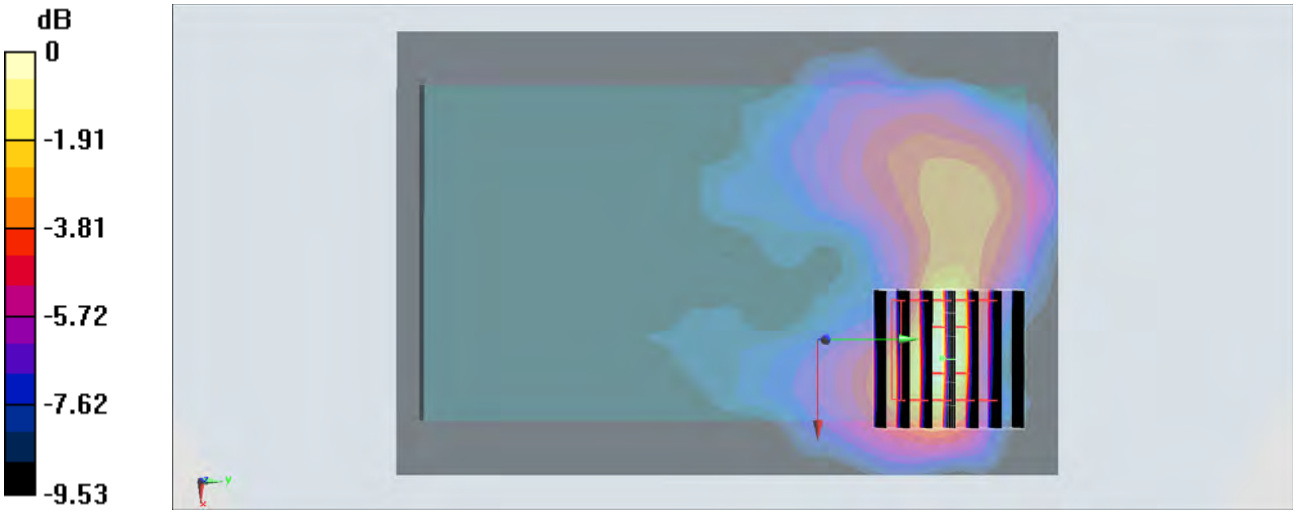
#28_Bluetooth_1Mbps_Back_1cm_Ch39

Communication System: Bluetooth ; Frequency: 2441 MHz;Duty Cycle: 1:1.2
Medium: MSL_2450_141006 Medium parameters used: f = 2441 MHz; σ = 1.952 S/m; ε_r = 51.621; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3931; ConvF(7.36, 7.36, 7.36); Calibrated: 2014/9/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/2/17
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch39/Area Scan (81x121x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.0598 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.510 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.0820 W/kg
SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.017 W/kg
Maximum value of SAR (measured) = 0.0563 W/kg



0 dB = 0.0563 W/kg = -12.49 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

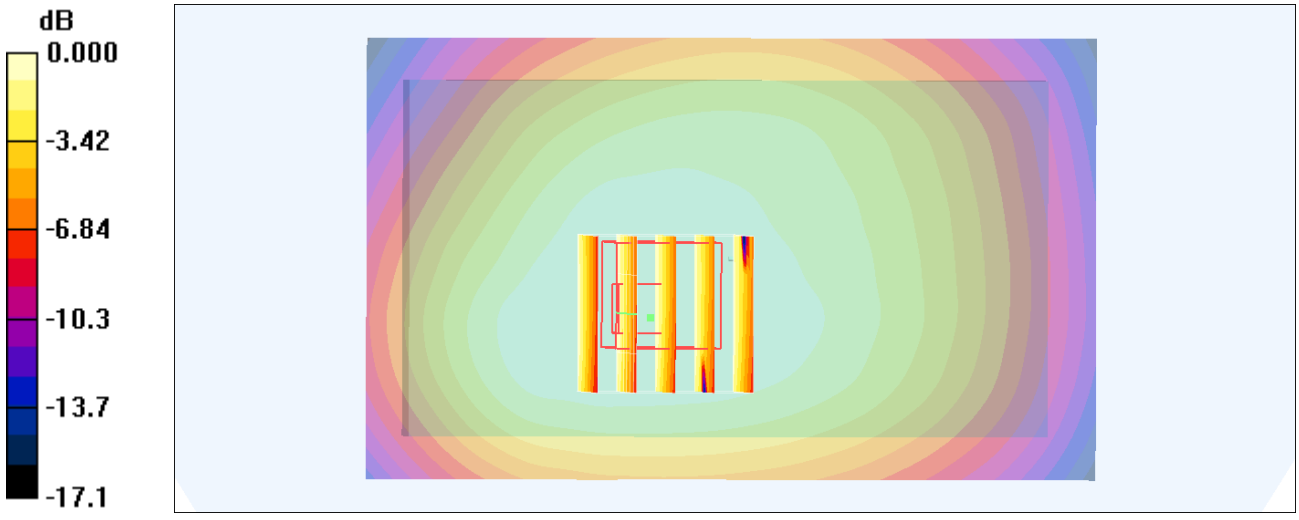
#29_GSM850_GPRS (3 Tx slots)_Back_1.5cm_Ch128

Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:2.77
Medium: MSL_850_141003 Medium parameters used : f = 824.2 MHz; σ = 0.956 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(9.61, 9.61, 9.61); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch128/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.497 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.1 V/m; Power Drift = -0.055 dB
Peak SAR (extrapolated) = 0.532 W/kg
SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.314 mW/g
Maximum value of SAR (measured) = 0.477 mW/g



0 dB = 0.477mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

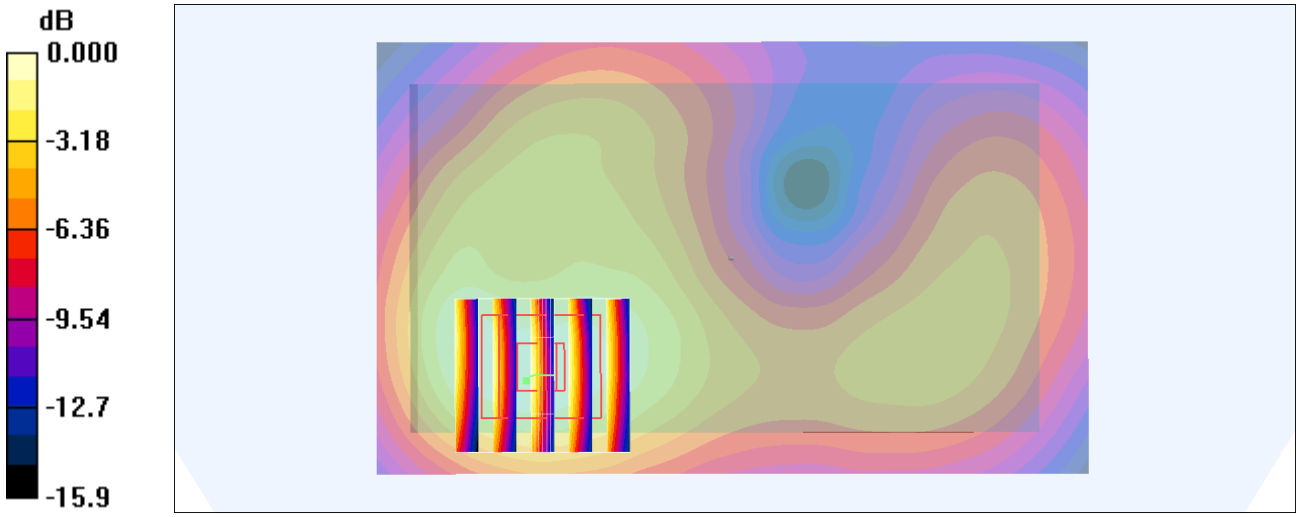
#30_GSM1900_GPRS (4 Tx slots)_Back_1.5cm_Ch810

Communication System: PCS; Frequency: 1909.8 MHz;Duty Cycle: 1:2.08
Medium: MSL_1900_141003 Medium parameters used: f = 1910 MHz; σ = 1.56 mho/m; ε_r = 51.9; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(7.95, 7.95, 7.95); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch810/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.409 mW/g

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.9 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 0.555 W/kg
SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.204 mW/g
Maximum value of SAR (measured) = 0.409 mW/g



0 dB = 0.409mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/8/27

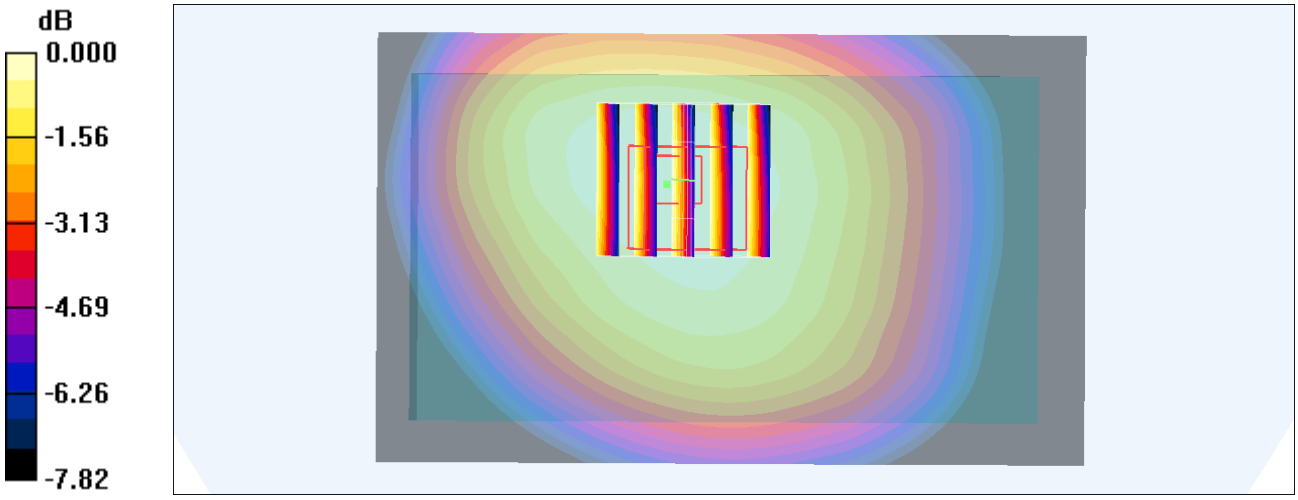
#31_WCDMA V_RMC 12.2Kbps_Front_1.5cm_Ch4132

Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: MSL_850_140827 Medium parameters used: f = 826.4 MHz; σ = 0.973 mho/m; ε_r = 55.4; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(9.61, 9.61, 9.61); Calibrated: 2013/11/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1425; Calibrated: 2014/3/3
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch4132/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.551 mW/g

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.3 V/m; Power Drift = -0.003 dB
Peak SAR (extrapolated) = 0.595 W/kg
SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.372 mW/g
Maximum value of SAR (measured) = 0.546 mW/g



0 dB = 0.546mW/g

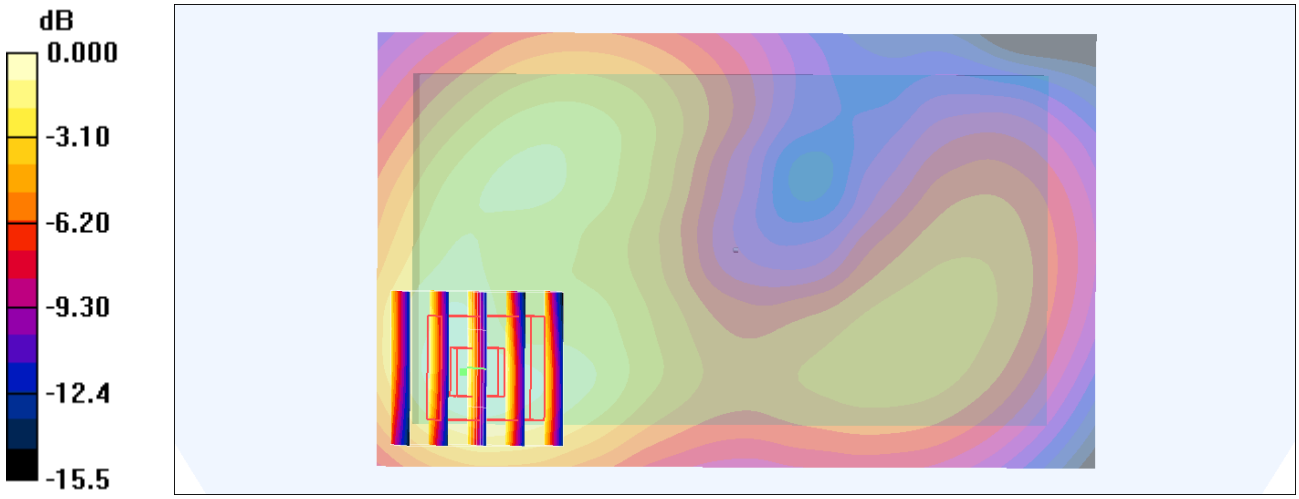
#32_WCDMA II_RMC 12.2Kbps_Back_1.5cm_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: MSL_1900_140826 Medium parameters used: f = 1852.4 MHz; σ = 1.49 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY4 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.71, 4.71, 4.71); Calibrated: 2013/9/24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch9262/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.765 mW/g

Ch9262/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.2 V/m; Power Drift = 0.001 dB
Peak SAR (extrapolated) = 0.997 W/kg
SAR(1 g) = 0.624 mW/g; SAR(10 g) = 0.372 mW/g
Maximum value of SAR (measured) = 0.751 mW/g



0 dB = 0.751mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

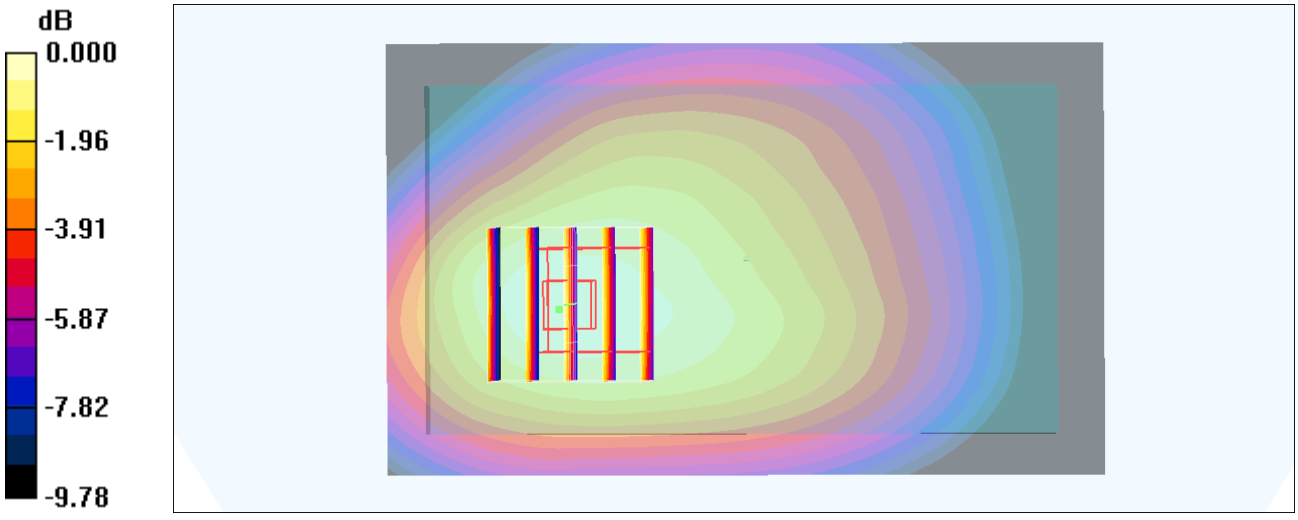
#33_LTE Band 17_10M_QPSK_1RB_0Offset_Back_1.5cm_Ch23790

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1
Medium: MSL_750_141003 Medium parameters used: f = 710 MHz; σ = 0.936 mho/m; ε_r = 55.1; ρ = 1000 kg/m^3
Ambient Temperature：23.7 ℃; Liquid Temperature：22.7 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3955; ConvF(9.89, 9.89, 9.89); Calibrated: 2013/11/12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2013/11/7
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch23790/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.376 mW/g

Ch23790/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.8 V/m; Power Drift = 0.031 dB
Peak SAR (extrapolated) = 0.436 W/kg
SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.233 mW/g
Maximum value of SAR (measured) = 0.381 mW/g



0 dB = 0.381mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/9/2

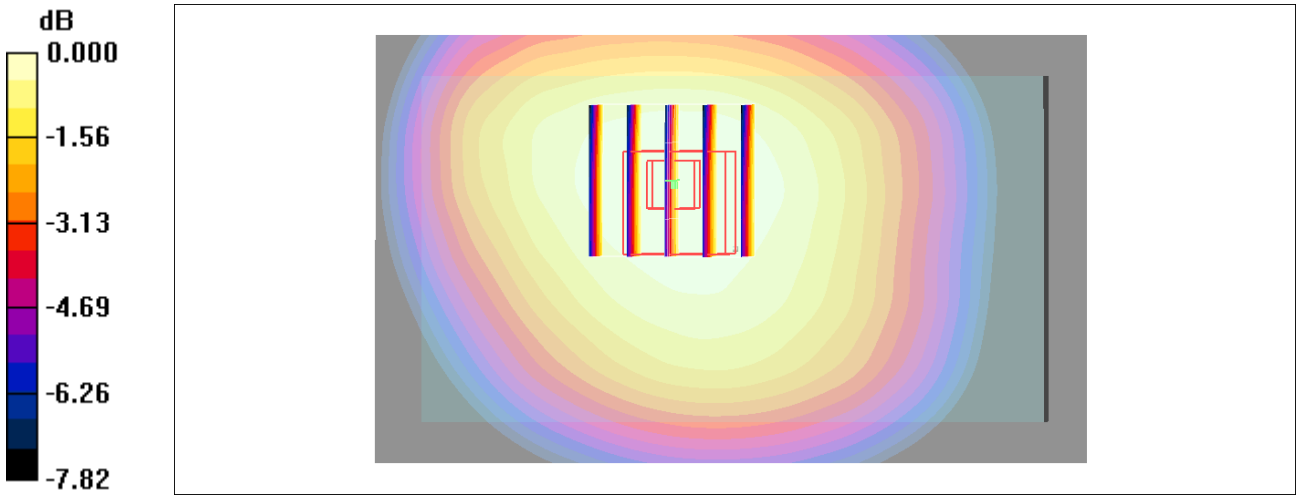
#34_LTE Band 5_10M_QPSK_1RB_0Offset_Front_1.5cm_Ch20450

Communication System: LTE; Frequency: 829 MHz;Duty Cycle: 1:1
Medium: MSL_850_140902 Medium parameters used: f = 829 MHz; σ = 0.956 mho/m; ε_r = 54.6; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3955; ConvF(9.81, 9.81, 9.81); Calibrated: 2013/12/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2013/11/7
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch20450/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.441 mW/g

Ch20450/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.9 V/m; Power Drift = 0.009 dB
Peak SAR (extrapolated) = 0.482 W/kg
SAR(1 g) = 0.384 mW/g; SAR(10 g) = 0.298 mW/g
Maximum value of SAR (measured) = 0.439 mW/g



0 dB = 0.439mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/3

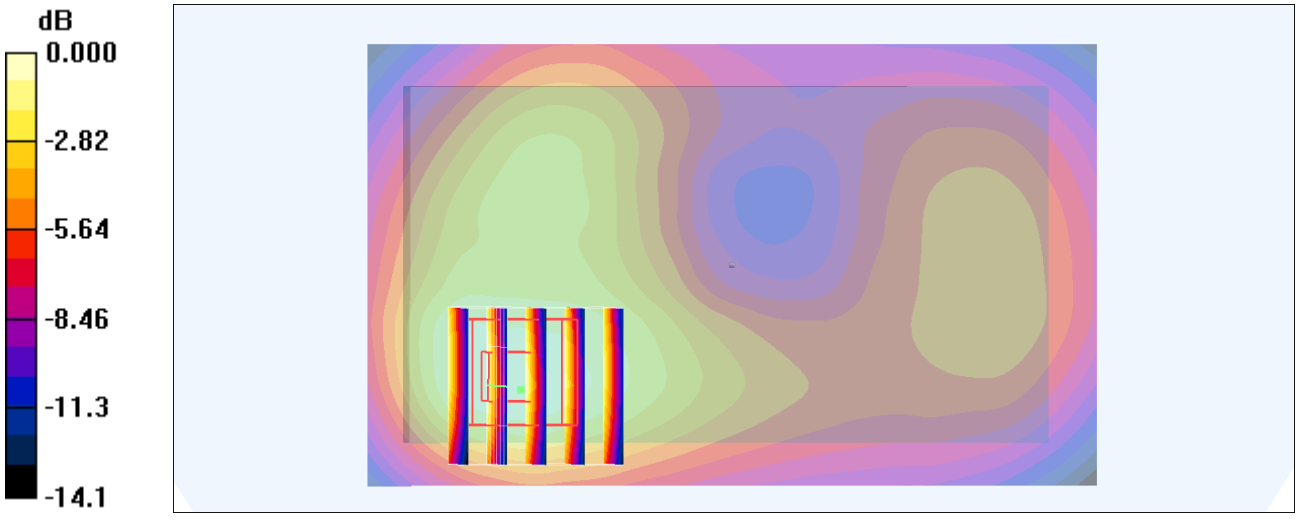
#35_LTE Band 4_20M_QPSK_1RB_0Offset_Back_1.5cm_Ch20050

Communication System: LTE; Frequency: 1720 MHz;Duty Cycle: 1:1
Medium: MSL_1750_141003 Medium parameters used: f = 1720 MHz; σ = 1.48 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3925; ConvF(8.3, 8.3, 8.3); Calibrated: 2014/5/22
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2014/5/19
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch20050/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.804 mW/g

Ch20050/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.1 V/m; Power Drift = 0.003 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.669 mW/g; SAR(10 g) = 0.409 mW/g
Maximum value of SAR (measured) = 0.779 mW/g



0 dB = 0.779mW/g

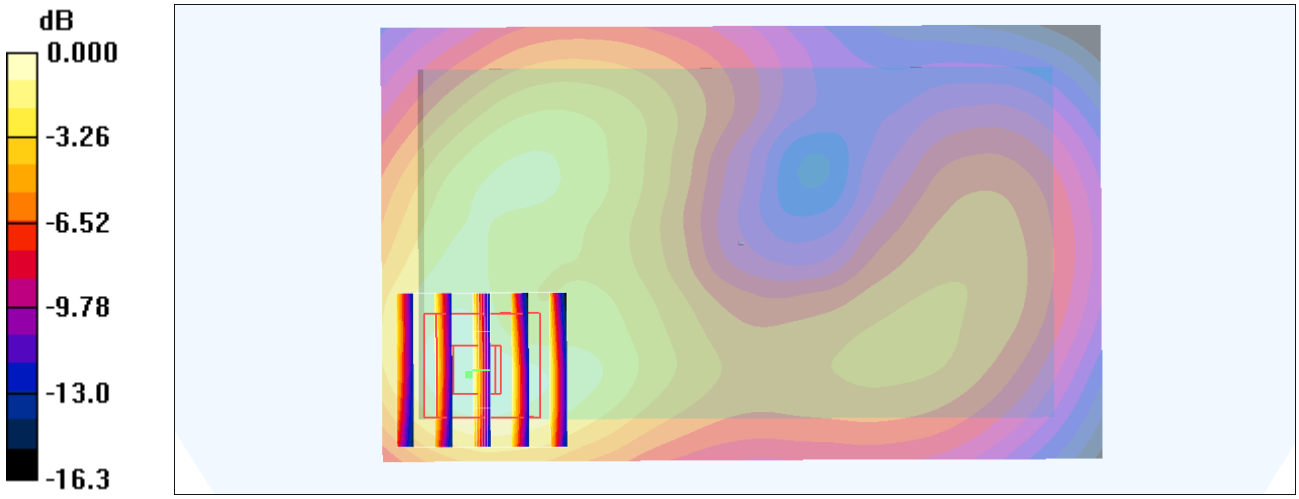
#36_LTE Band 2_20M_QPSK_1RB_0Offset_Back_1.5cm_Ch18900

Communication System: LTE; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900_140826 Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY4 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(4.71, 4.71, 4.71); Calibrated: 2013/9/24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch18900/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.771 mW/g

Ch18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.3 V/m; Power Drift = 0.021 dB
Peak SAR (extrapolated) = 0.998 W/kg
SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.355 mW/g
Maximum value of SAR (measured) = 0.744 mW/g



0 dB = 0.744mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/8/31

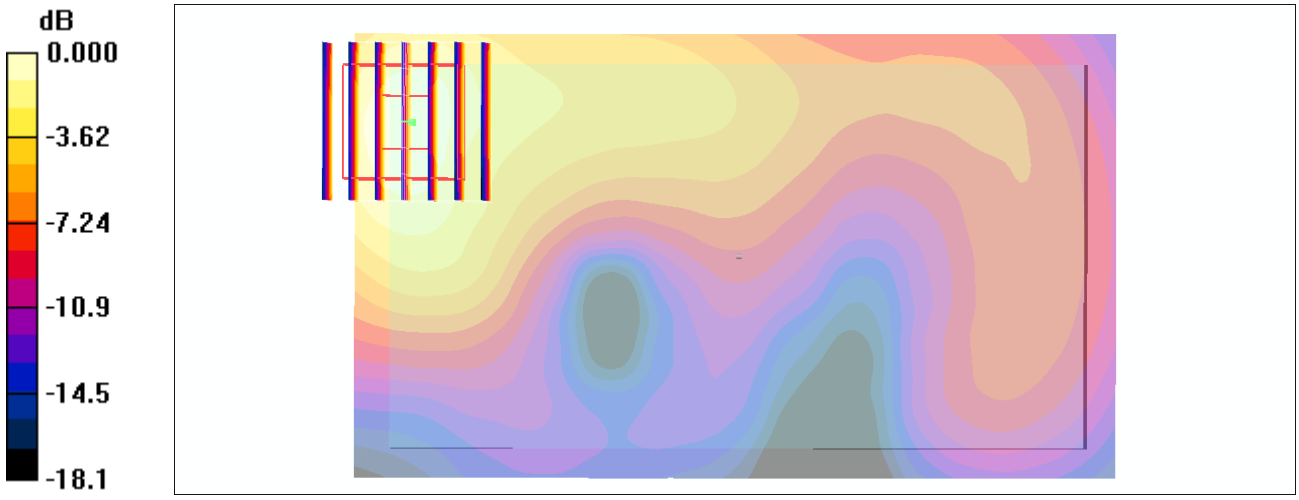
#37_LTE Band 7_20M_QPSK_1RB_0Offset_Front_1.5cm_Ch21100

Communication System: LTE; Frequency: 2535 MHz;Duty Cycle: 1:1
Medium: MSL_2600_140831 Medium parameters used: f = 2535 MHz; σ = 2.15 mho/m; ε_r = 53.9; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3955; ConvF(7.58, 7.58, 7.58); Calibrated: 2013/12/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2014/5/15
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch21100/Area Scan (71x121x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.868 mW/g

Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.2 V/m; Power Drift = 0.034 dB
Peak SAR (extrapolated) = 1.12 W/kg
SAR(1 g) = 0.652 mW/g; SAR(10 g) = 0.353 mW/g
Maximum value of SAR (measured) = 0.896 mW/g



0 dB = 0.896mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/9/3

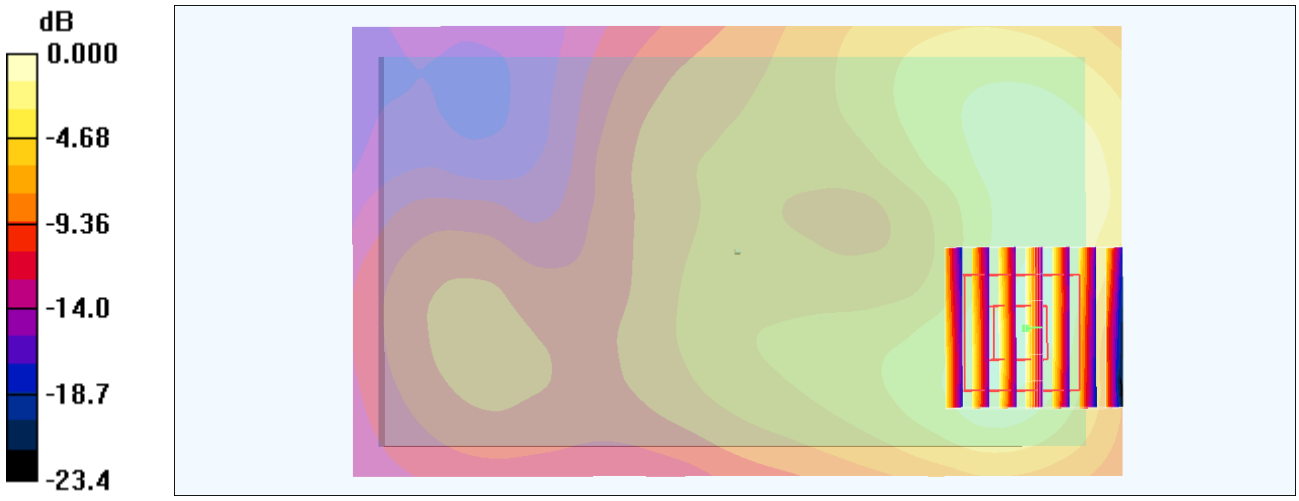
#38_WLAN2.4GHz_802.11b 1Mbps_Back_1.5cm_Ch6

Communication System: 802.11b ; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: MSL_2450_140903 Medium parameters used: f = 2437 MHz; σ = 2 mho/m; ε_r = 53.9; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3931; ConvF(7.24, 7.24, 7.24); Calibrated: 2013/9/10
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2014/5/15
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch6/Area Scan (71x121x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.467 mW/g

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.3 V/m; Power Drift = -0.082 dB
Peak SAR (extrapolated) = 0.707 W/kg
SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.182 mW/g
Maximum value of SAR (measured) = 0.542 mW/g



0 dB = 0.542mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/7

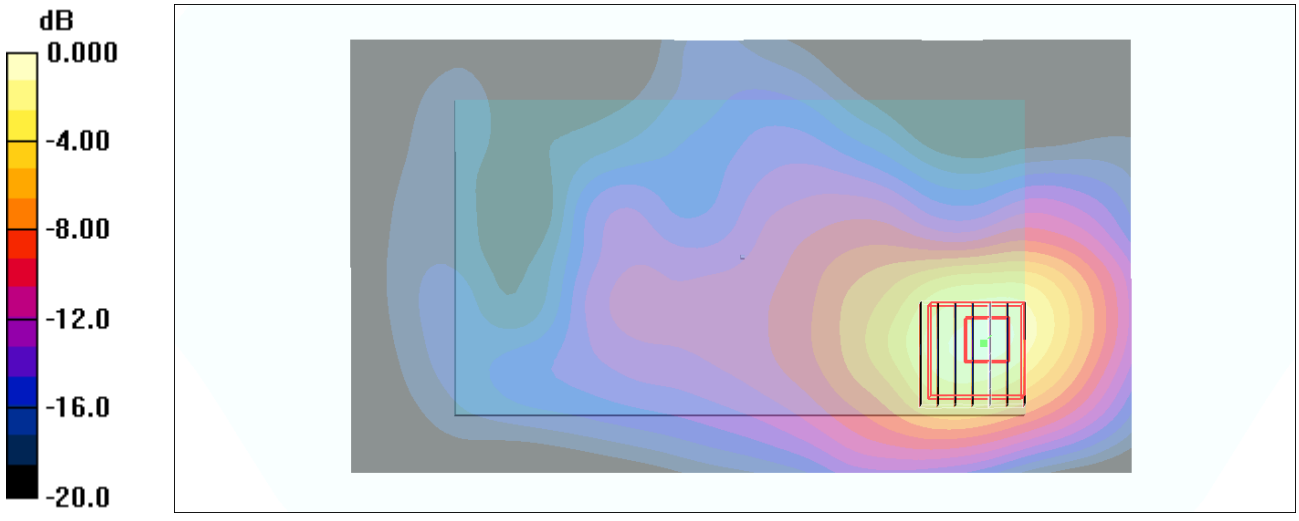
#39_WLAN5GHz_802.11a 6Mbps_Back_1.5cm_Ch36

Communication System: 802.11a; Frequency: 5180 MHz;Duty Cycle: 1:1.036
Medium: MSL_5G_141007 Medium parameters used: f = 5180 MHz; σ = 5.29 mho/m; ε_r = 47.5; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(4.52, 4.52, 4.52); Calibrated: 2013/11/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch36/Area Scan (101x181x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.12 mW/g

Ch36/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 17.0 V/m; Power Drift = -0.111 dB
Peak SAR (extrapolated) = 3.95 W/kg
SAR(1 g) = 0.912 mW/g; SAR(10 g) = 0.325 mW/g
Maximum value of SAR (measured) = 2.46 mW/g



0 dB = 2.46mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/7

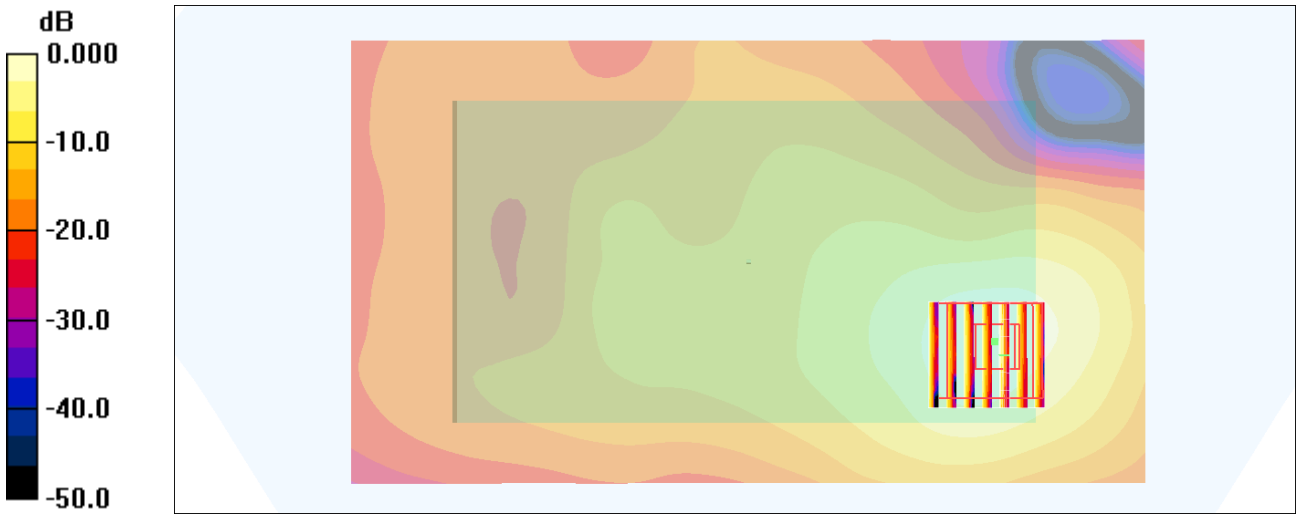
#40_WLAN5GHz_802.11a 6Mbps_Back_1.5cm_Ch52

Communication System: 802.11a; Frequency: 5260 MHz;Duty Cycle: 1:1.036
Medium: MSL_5G_141007 Medium parameters used : f = 5260 MHz; σ = 5.38 mho/m;
ε_r = 47.3; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(4.28, 4.28, 4.28); Calibrated: 2013/11/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch52/Area Scan (101x181x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.89 mW/g

Ch52/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 17.3 V/m; Power Drift = -0.075 dB
Peak SAR (extrapolated) = 3.61 W/kg
SAR(1 g) = 0.815 mW/g; SAR(10 g) = 0.328 mW/g
Maximum value of SAR (measured) = 2.24 mW/g



0 dB = 2.24mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/7

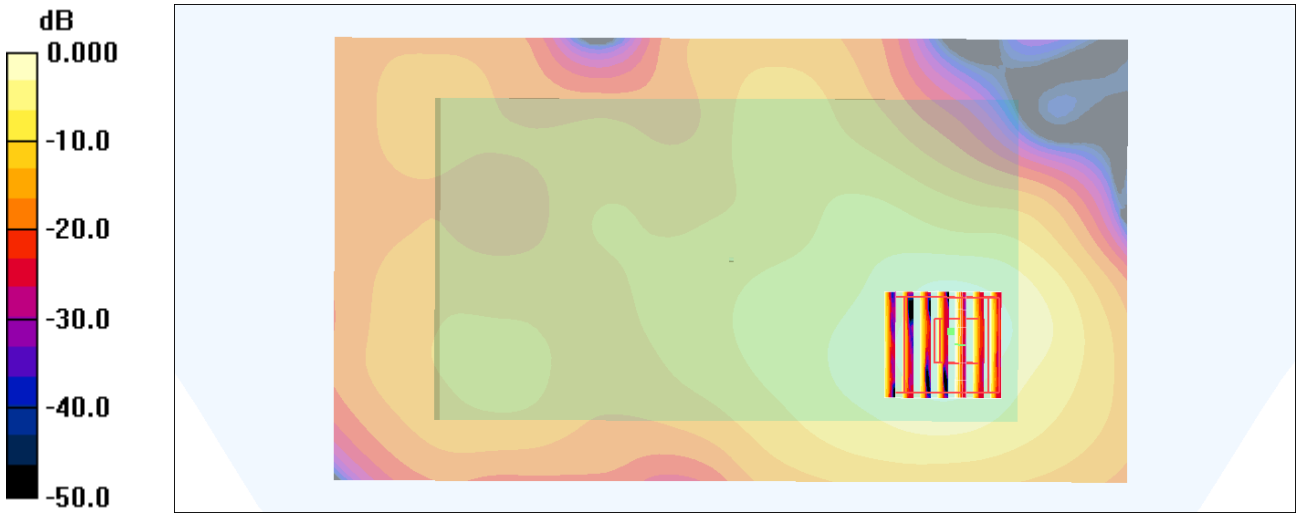
#41_WLAN5GHz_802.11a 6Mbps_Back_1.5cm_Ch120

Communication System: 802.11a; Frequency: 5600 MHz;Duty Cycle: 1:1.036
Medium: MSL_5G_141007 Medium parameters used: f = 5600 MHz; σ = 5.87 mho/m; ε_r = 46.7; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY4 Configuration:
- Probe: EX3DV4 - SN3954; ConvF(3.97, 3.97, 3.97); Calibrated: 2013/11/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch120/Area Scan (101x181x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.48 mW/g

Ch120/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 16.3 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 3.06 W/kg
SAR(1 g) = 0.760 mW/g; SAR(10 g) = 0.288 mW/g
Maximum value of SAR (measured) = 1.79 mW/g



0 dB = 1.79mW/g

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/5

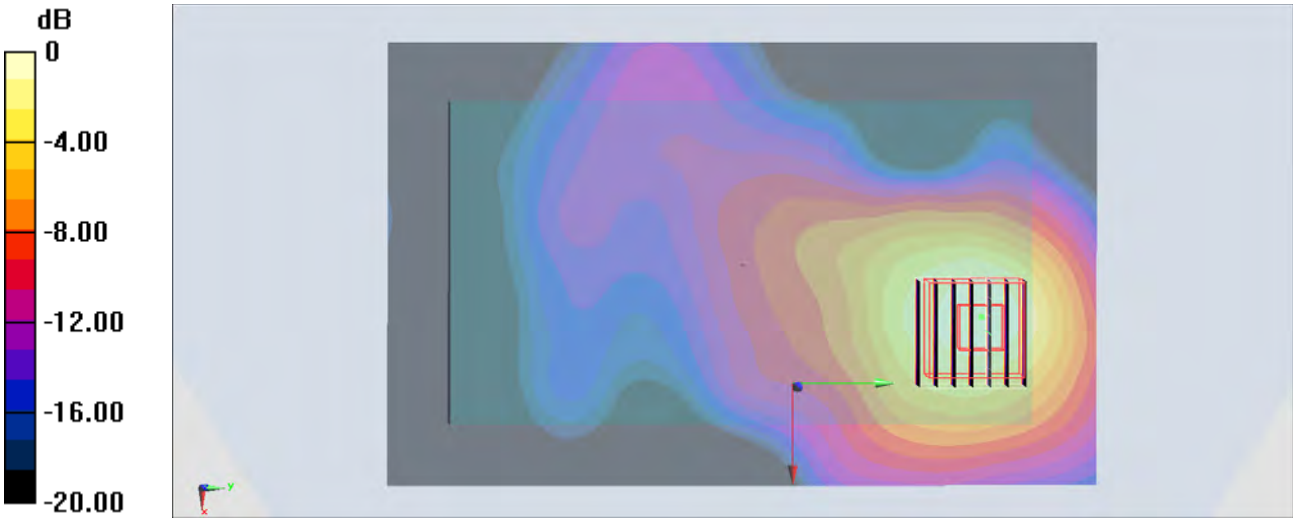
#42_WLAN5GHz_802.11a 6Mbps_Back_1.5cm_Ch153

Communication System: 802.11a; Frequency: 5765 MHz;Duty Cycle: 1:1.036
Medium: MSL_5G_141005 Medium parameters used: f = 5765 MHz; σ = 6.212 S/m; ε_r = 46.539; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration
- Probe: EX3DV4 - SN3954; ConvF(4.08, 4.08, 4.08); Calibrated: 2013/11/4;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2014/7/23
- Phantom: SAM_RIGHT; Type: QD000P40CD; Serial: 1719
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Configuration/Ch153/Area Scan (101x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.45 W/kg

Configuration/Ch153/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 15.698 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 2.39 W/kg
SAR(1 g) = 0.631 W/kg; SAR(10 g) = 0.250 W/kg
Maximum value of SAR (measured) = 1.42 W/kg



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

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/10/6

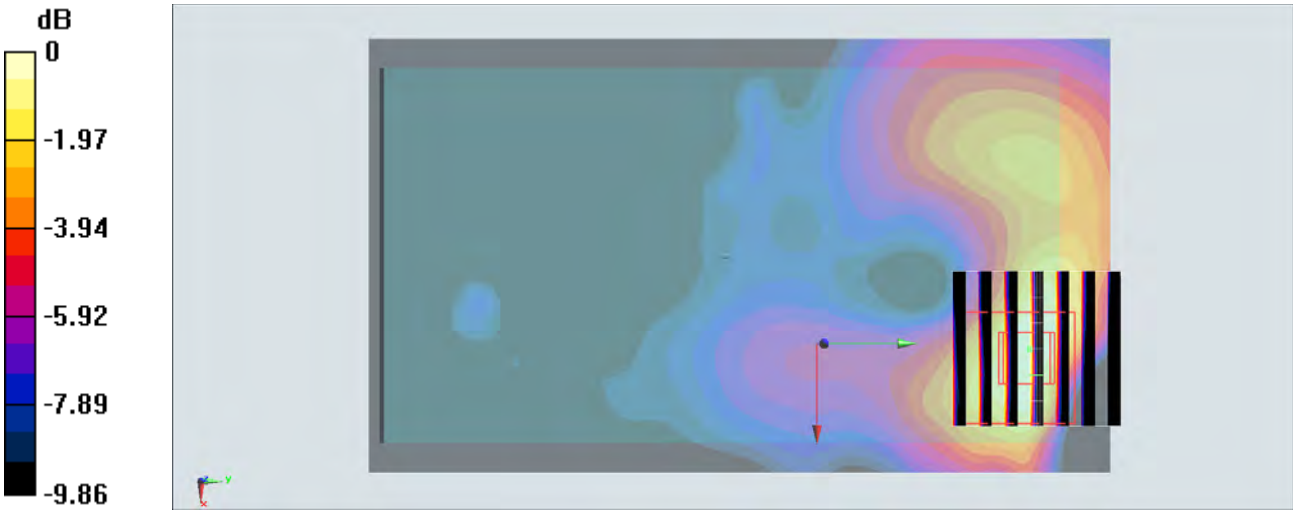
#43_Bluetooth_1Mbps_Back_1.5cm_Ch39

Communication System: Bluetooth; Frequency: 2441 MHz;Duty Cycle: 1:1.2
Medium: MSL_2450_141006 Medium parameters used: f = 2441 MHz; σ = 1.952 S/m; ε_r = 51.621; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3931; ConvF(7.36, 7.36, 7.36); Calibrated: 2014/9/25;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn360; Calibrated: 2014/2/17
- Phantom: SAM_Right; Type: SAM; Serial: TP-1303
- ;Postprocessing SW: SEMCAD, V1.8 Build 159

Ch39/Area Scan (71x121x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.0323 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.524 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.0940 W/kg
SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.00854 W/kg
Maximum value of SAR (measured) = 0.0281 W/kg



0 dB = 0.0281 W/kg = -15.51 dBW/kg