Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2020/6/19

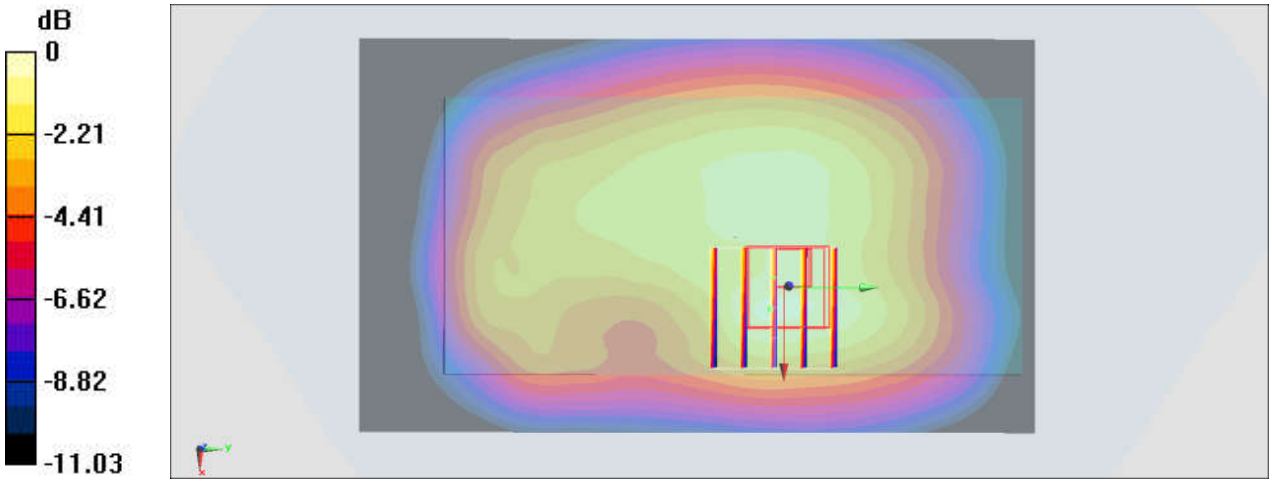
#58_GSM850_GPRS (4 Tx slots)_Back_10mm_Ch128

Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:2.08
Medium: HSL_850_200619 Medium parameters used: f = 824.2 MHz; σ = 0.866 S/m; ε_r = 42.62; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(9.51, 9.51, 9.51) @ 824.2 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM_Left; Type: SAM; Serial: 1796
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.506 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.89 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.647 W/kg
SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.335 W/kg
Maximum value of SAR (measured) = 0.581 W/kg



0 dB = 0.581 W/kg = -2.36 dBW/kg

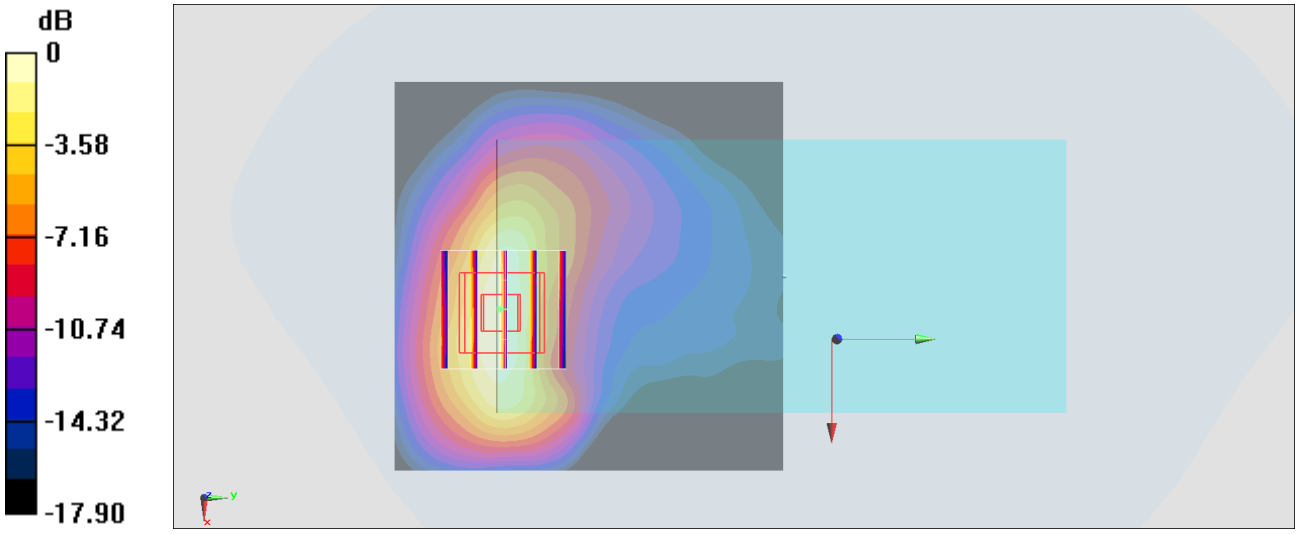
#59_GSM1900_GPRS (4 Tx slots)_Back_10mm_Ch661

Communication System: PCS ; Frequency: 1880 MHz;Duty Cycle: 1:2.08
Medium: HSL_1900_200704 Medium parameters used: f = 1880 MHz; σ = 1.453 S/m; ε_r = 40.654; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(7.82, 7.82, 7.82) @ 1880 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.20 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.64 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.38 W/kg
SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.443 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

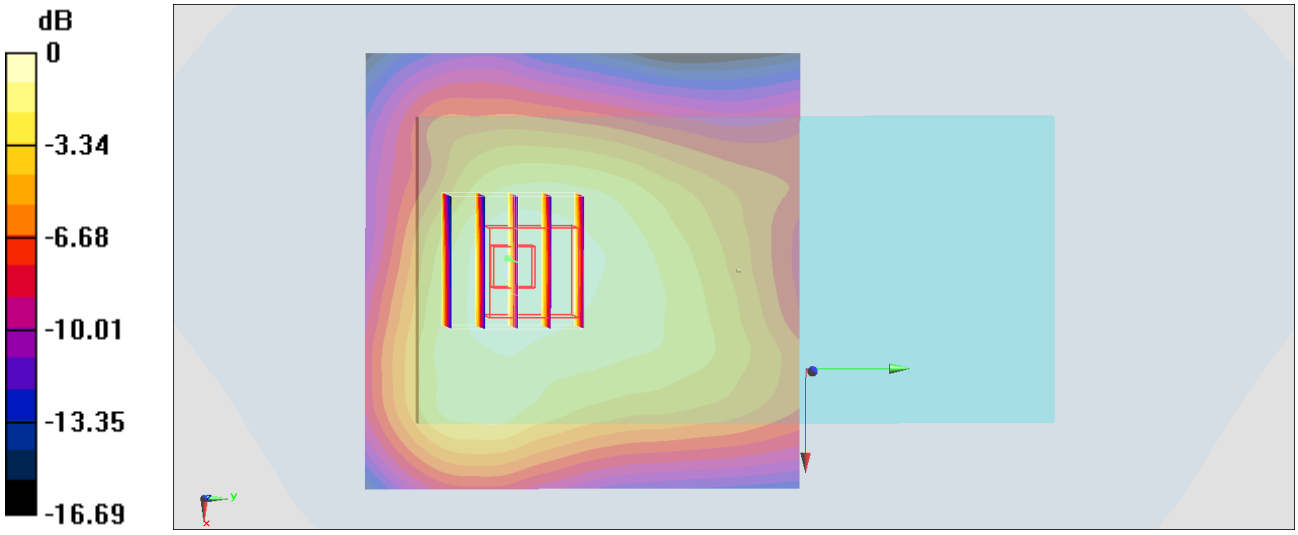
#60_WCDMA II_RMC 12.2Kbps_Front_10mm_Ch9262

Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: HSL_1900_200704 Medium parameters used : f = 1852.4 MHz; σ = 1.452 S/m; ε_r = 40.651; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(7.82, 7.82, 7.82) @ 1852.4 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.20 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.20 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.851 W/kg; SAR(10 g) = 0.552 W/kg
Maximum value of SAR (measured) = 1.16 W/kg



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

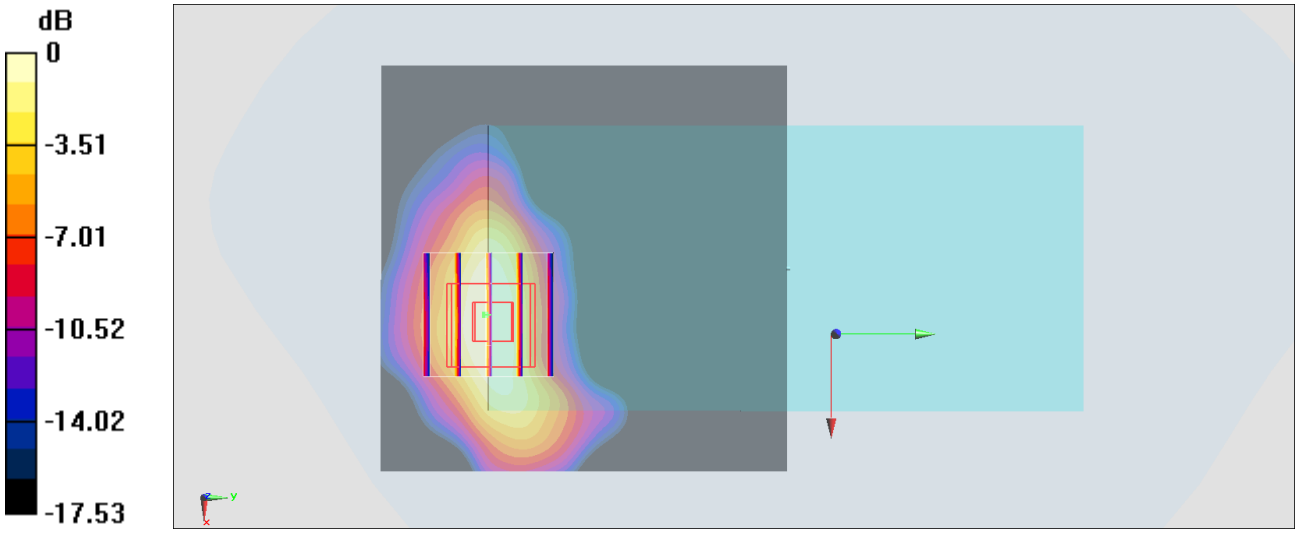
#61_WCDMA IV_RMC 12.2Kbps_Back_10mm_Ch1312

Communication System: WCDMA; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium: HSL_1750_200706 Medium parameters used : f = 1712.4 MHz; σ = 1.355 S/m; ε_r = 41.928; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(8.06, 8.06, 8.06) @ 1712.4 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.26 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.83 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.38 W/kg
SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.422 W/kg
Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2020/6/19

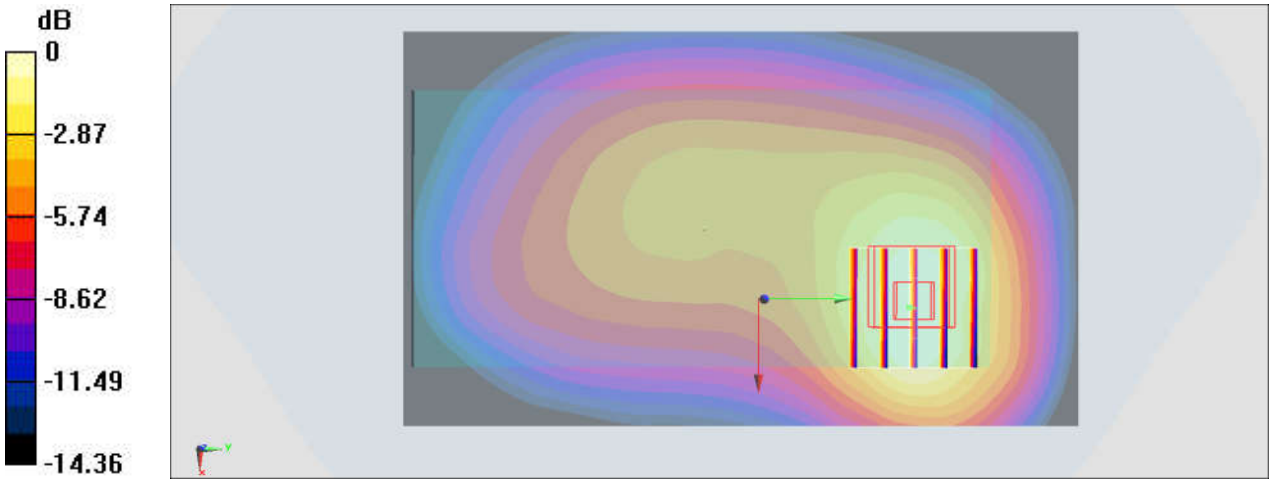
#62_WCDMA V_RMC 12.2Kbps_Back_10mm_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: HSL_850_200619 Medium parameters used: f = 836.4 MHz; σ = 0.877 S/m; ε_r = 42.478; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(9.51, 9.51, 9.51) @ 836.4 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM_Left; Type: SAM; Serial: 1796
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.746 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.35 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.852 W/kg
SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.349 W/kg
Maximum value of SAR (measured) = 0.741 W/kg



0 dB = 0.741 W/kg = -1.30 dBW/kg

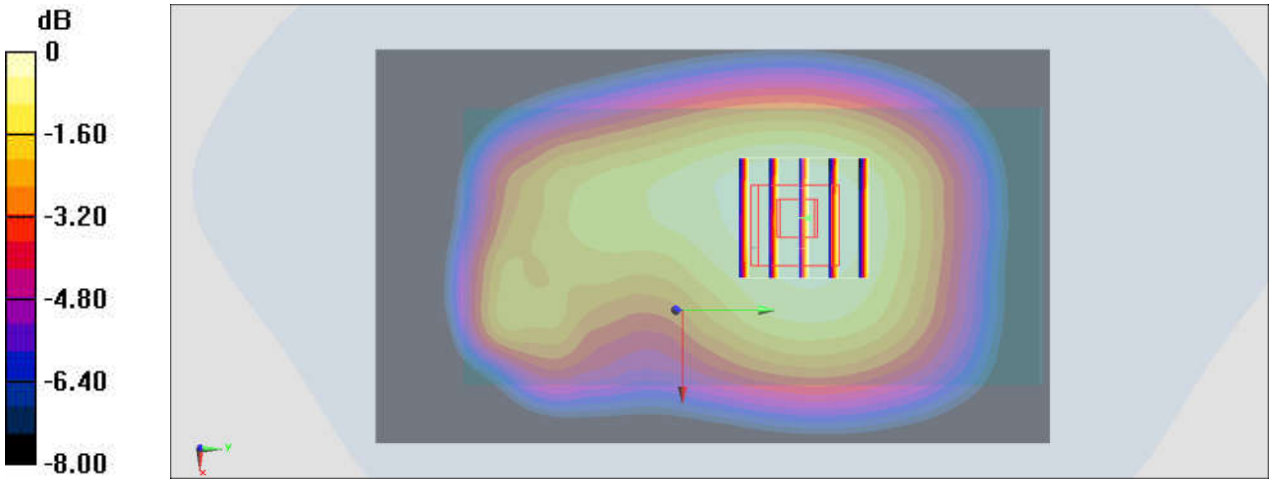
#63_CDMA BC0_1xRTT RC3 SO32_Back_10mm_Ch384

Communication System: CDMA ; Frequency: 836.52 MHz;Duty Cycle: 1:1
Medium: HSL_850_200619 Medium parameters used: f = 837 MHz; σ = 0.878 S/m; ε_r = 42.472; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(9.51, 9.51, 9.51) @ 836.52 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM_Left; Type: SAM; Serial: 1796
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.674 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.85 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.737 W/kg
SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.437 W/kg
Maximum value of SAR (measured) = 0.683 W/kg



0 dB = 0.683 W/kg = -1.66 dBW/kg

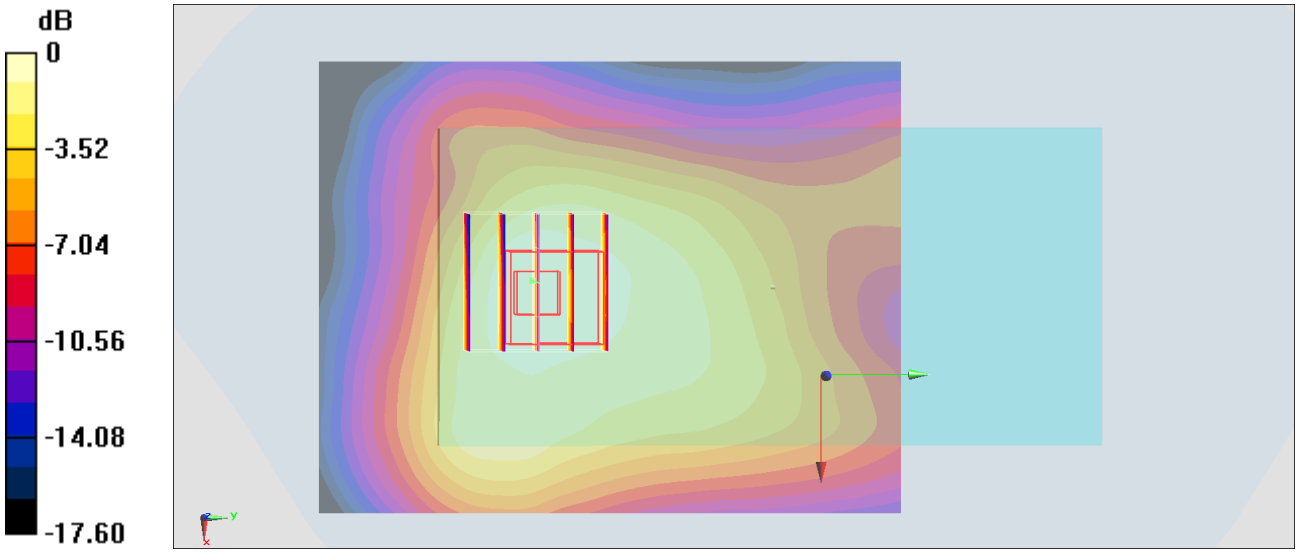
#64_CDMA BC1_1xRTT RC3 SO32_Front_10mm_Ch600

Communication System: CDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL_1900_200719 Medium parameters used: f = 1880 MHz; σ = 1.387 S/m; ε_r = 40.136; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(7.82, 7.82, 7.82) @ 1880 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.61 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.771 W/kg; SAR(10 g) = 0.494 W/kg
Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2020/6/19

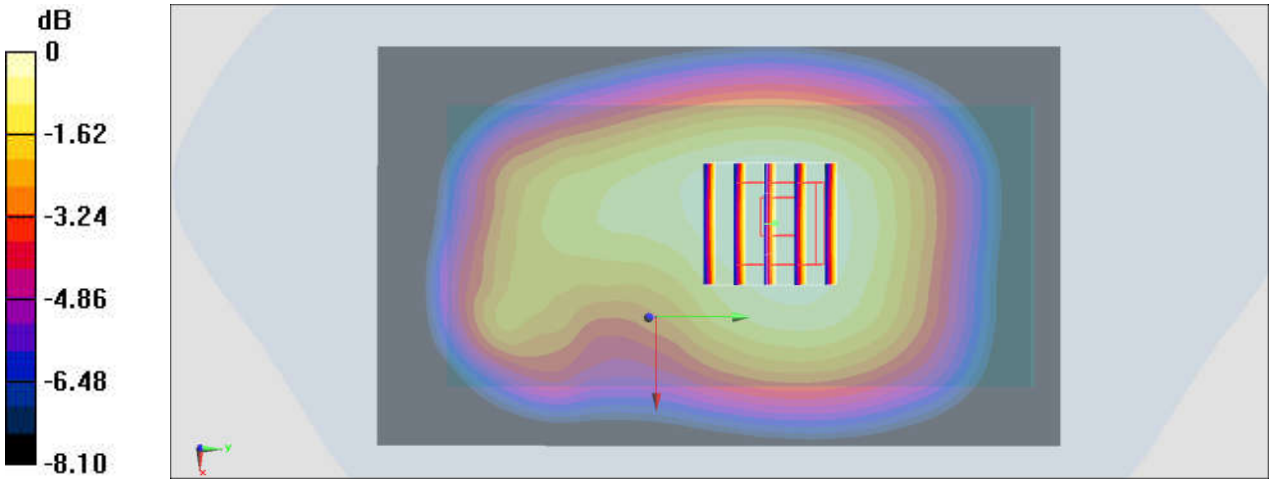
#65_CDMA BC10_1xRTT RC3 SO32_Back_10mm_Ch580

Communication System: CDMA; Frequency: 820.5 MHz;Duty Cycle: 1:1
Medium: HSL_850_200619 Medium parameters used: f = 820.5 MHz; σ = 0.863 S/m; ε_r = 42.664; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(9.51, 9.51, 9.51) @ 820.5 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM_Left; Type: SAM; Serial: 1796
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.708 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.86 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.751 W/kg
SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.446 W/kg
Maximum value of SAR (measured) = 0.696 W/kg



0 dB = 0.696 W/kg = -1.57 dBW/kg

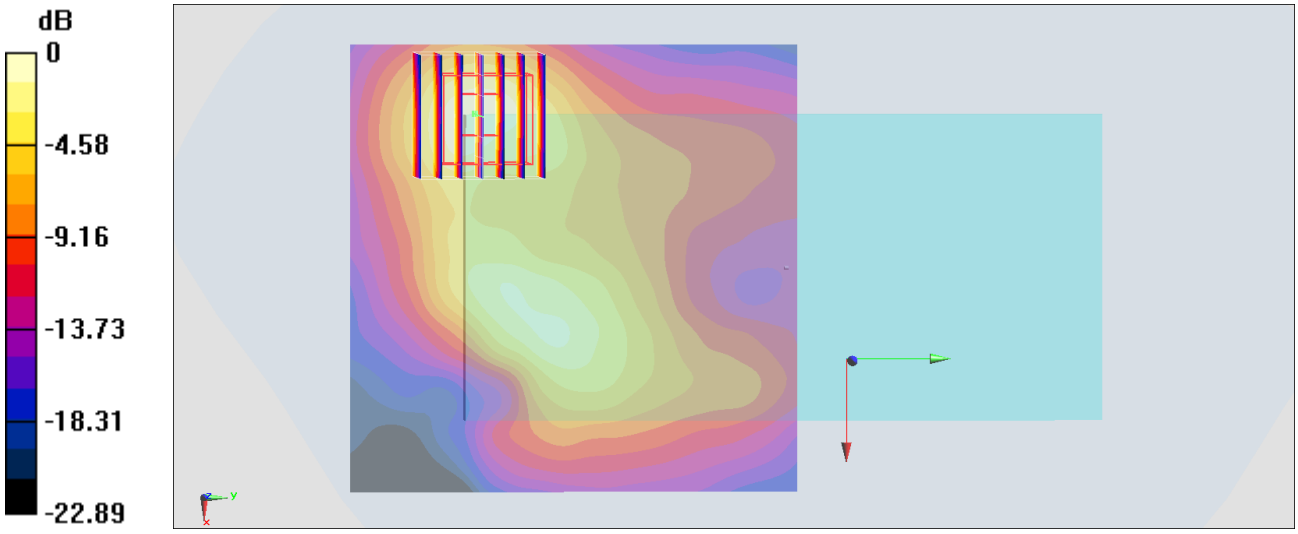
#66_LTE Band 7_20M_QPSK_1_99_Back_10mm_Ch21350

Communication System: LTE; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: HSL_2600_200708 Medium parameters used: f = 2560 MHz; σ = 1.941 S/m; ε_r = 39.767; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(7.08, 7.08, 7.08) @ 2560 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.33 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.82 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 0.818 W/kg; SAR(10 g) = 0.390 W/kg
Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

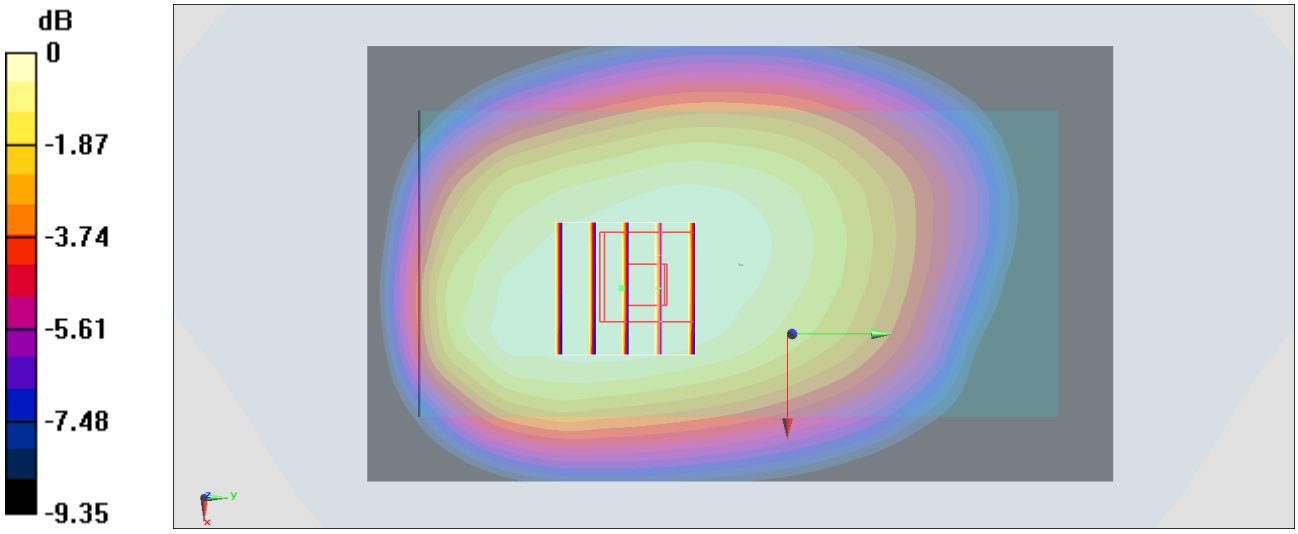
#67_LTE Band 12_10M_QPSK_1_49_Back_10mm_Ch23095

Communication System: LTE; Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: HSL_750_200630 Medium parameters used: f = 707.5 MHz; σ = 0.901 S/m; ε_r = 42.16; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.55, 6.55, 6.55) @ 707.5 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2019/11/14
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.588 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.46 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.691 W/kg
SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.397 W/kg
Maximum value of SAR (measured) = 0.575 W/kg



0 dB = 0.575 W/kg = -2.40 dBW/kg

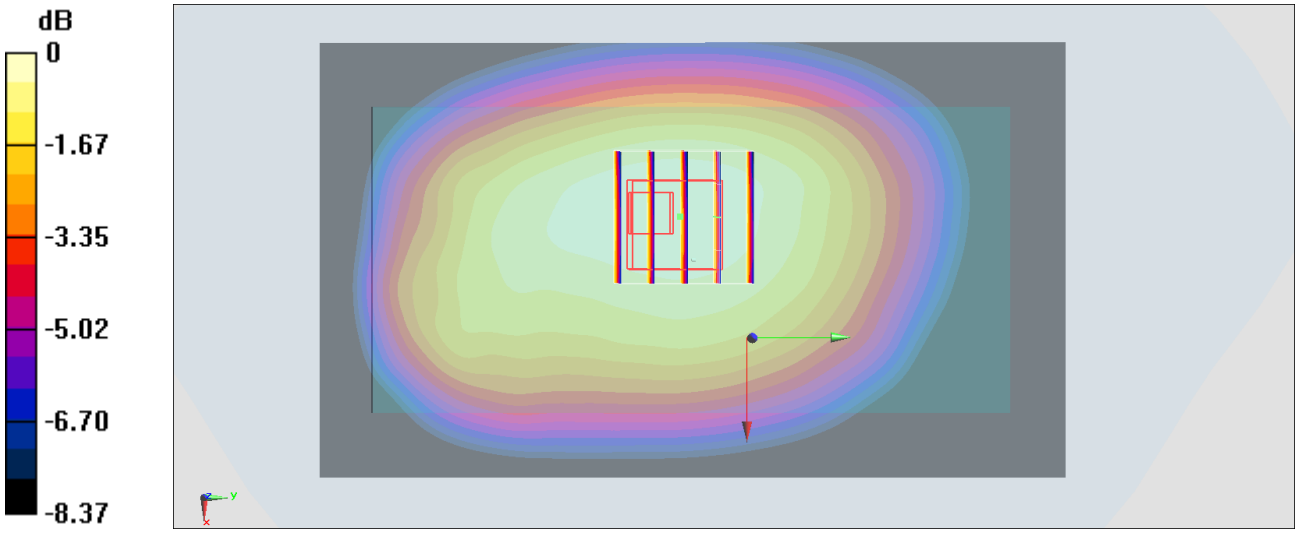
#68_LTE Band 13_10M_QPSK_1_49_Back_10mm_Ch23230

Communication System: LTE; Frequency: 782 MHz;Duty Cycle: 1:1
Medium: HSL_750_200701 Medium parameters used: f = 782 MHz; σ = 0.913 S/m; ε_r = 40.776; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(9.67, 9.67, 9.67) @ 782 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.717 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.48 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.800 W/kg
SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.431 W/kg
Maximum value of SAR (measured) = 0.711 W/kg



0 dB = 0.711 W/kg = -1.48 dBW/kg

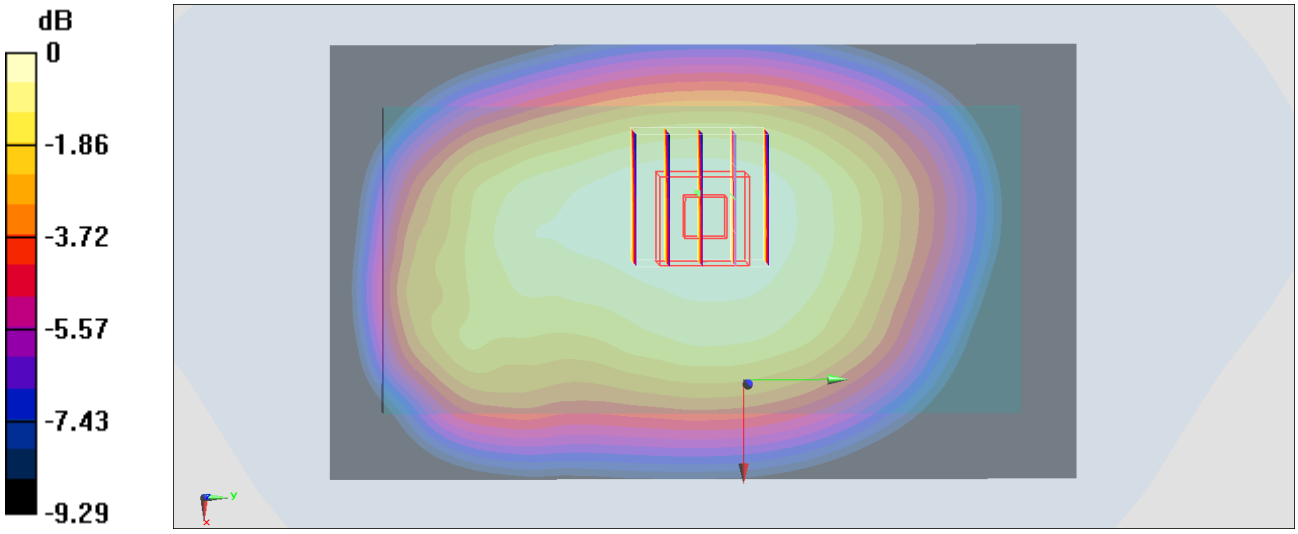
#69_LTE Band 14_10M_QPSK_1_49_Back_10mm_Ch23330

Communication System: LTE; Frequency: 793 MHz;Duty Cycle: 1:1
Medium: HSL_750_200630 Medium parameters used: f = 793 MHz; σ = 0.931 S/m; ε_r = 41.852; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.55, 6.55, 6.55) @ 793 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2019/11/14
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.717 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.82 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.891 W/kg
SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.486 W/kg
Maximum value of SAR (measured) = 0.719 W/kg



0 dB = 0.719 W/kg = -1.43 dBW/kg

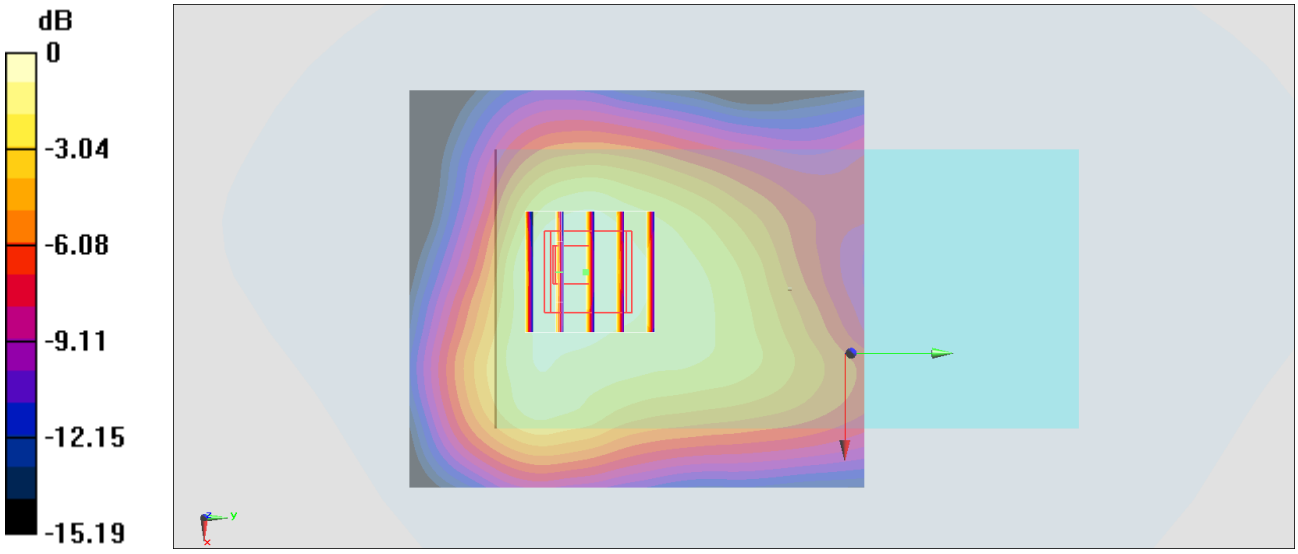
#70_LTE Band 25_20M_QPSK_1_0_Front_10mm_Ch26340

Communication System: LTE; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL_1900_200719 Medium parameters used: f = 1880 MHz; σ = 1.387 S/m; ε_r = 40.136; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(7.82, 7.82, 7.82) @ 1880 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.53 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.472 W/kg
Maximum value of SAR (measured) = 0.982 W/kg



0 dB = 0.982 W/kg = -0.08 dBW/kg

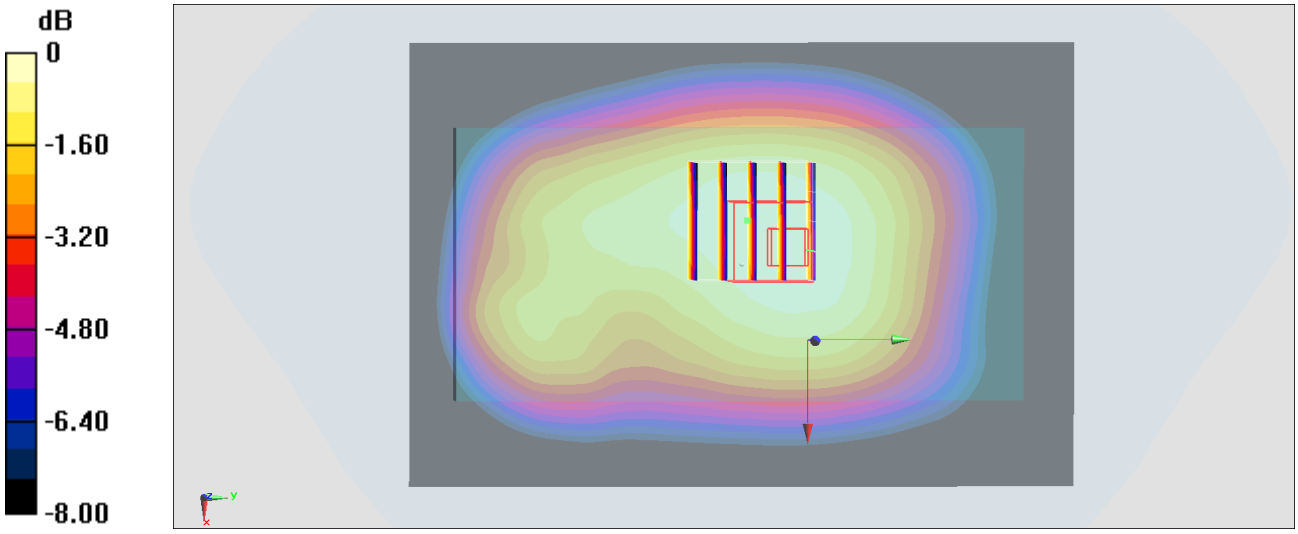
#71_LTE Band 26_15M_QPSK_1_0_Back_10mm_Ch26865

Communication System: LTE ; Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium: HSL_850_200624 Medium parameters used : f = 831.5 MHz; σ = 0.911 S/m; ε_r = 42.652; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.43, 6.43, 6.43) @ 831.5 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2019/11/14
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.609 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.25 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.709 W/kg
SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.412 W/kg
Maximum value of SAR (measured) = 0.588 W/kg



0 dB = 0.588 W/kg = -2.31 dBW/kg

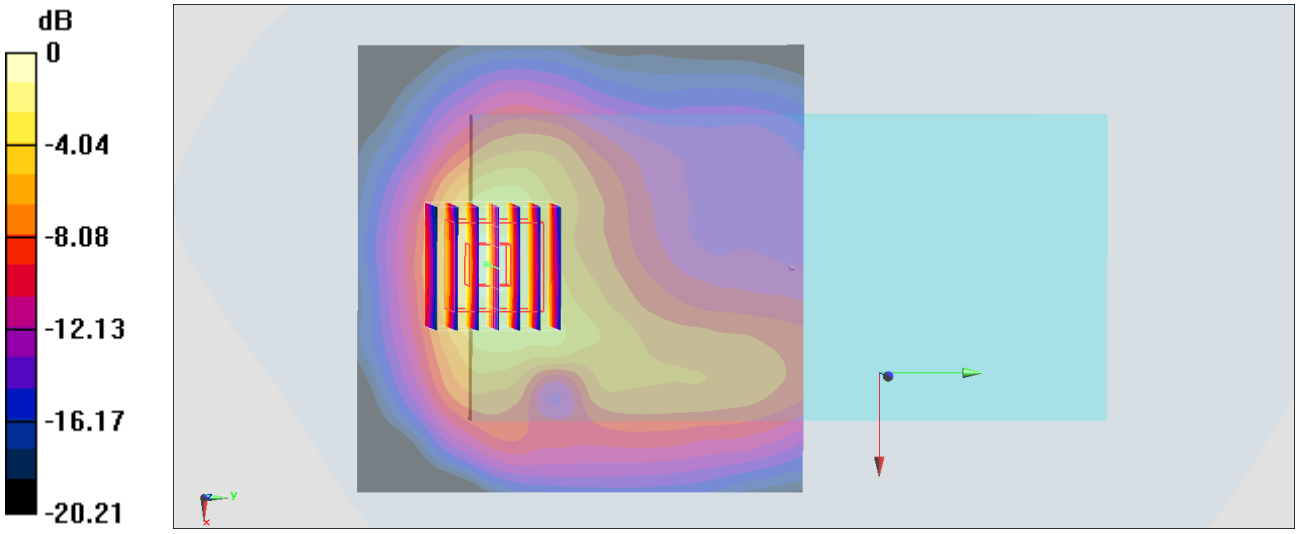
#72_LTE Band 30_10M_QPSK_1_0_Back_10mm_Ch27710

Communication System: LTE; Frequency: 2310 MHz;Duty Cycle: 1:1
Medium: HSL_2300_200707 Medium parameters used: f = 2310 MHz; σ = 1.7 S/m; ε_r = 39.647; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(7.56, 7.56, 7.56) @ 2310 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.14 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.98 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.59 W/kg
SAR(1 g) = 0.828 W/kg; SAR(10 g) = 0.409 W/kg
Maximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.33 W/kg = 1.24 dBW/kg

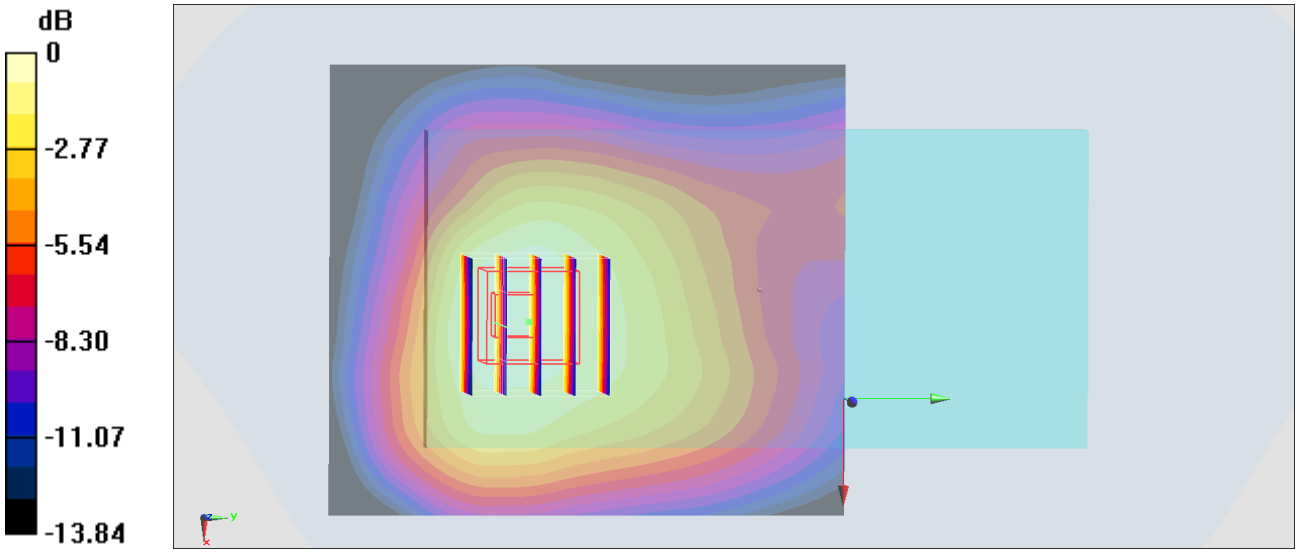
#73_LTE Band 66_20M_QPSK_1_0_Front_10mm_Ch132072

Communication System: LTE; Frequency: 1720 MHz;Duty Cycle: 1:1
Medium: HSL_1750_200720 Medium parameters used: f = 1720 MHz; σ = 1.338 S/m; ε_r = 39.557; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(8.06, 8.06, 8.06) @ 1720 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.17 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.49 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.880 W/kg; SAR(10 g) = 0.566 W/kg
Maximum value of SAR (measured) = 1.16 W/kg



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

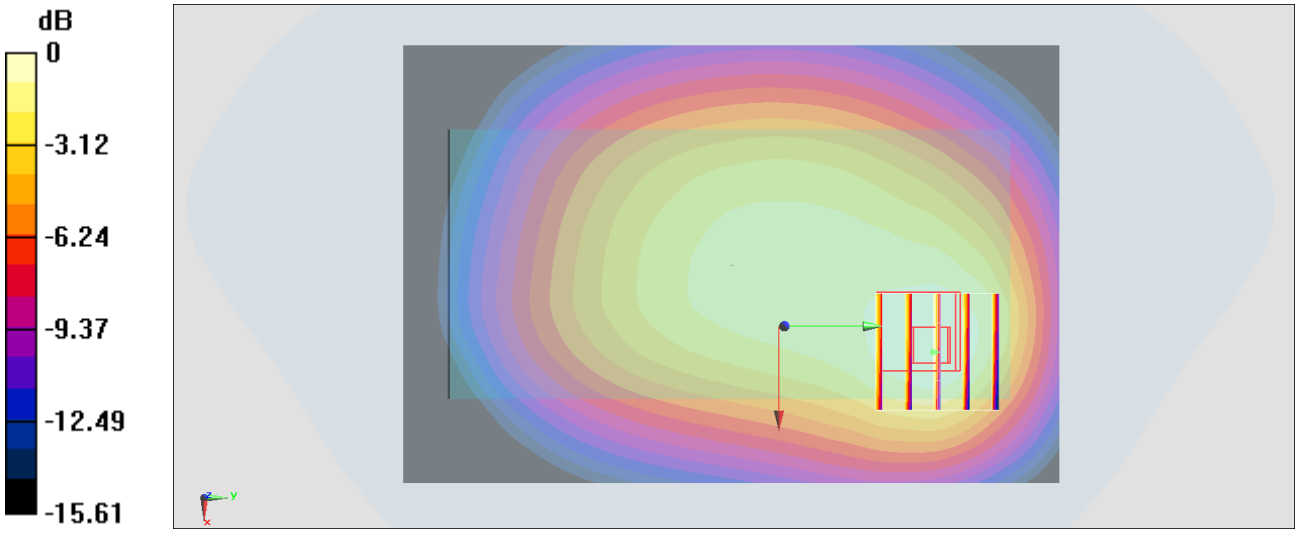
#74_LTE Band 71_20M_QPSK_1_0_Back_10mm_Ch133322

Communication System: LTE; Frequency: 683 MHz;Duty Cycle: 1:1
Medium: HSL_750_200629 Medium parameters used: f = 683 MHz; σ = 0.889 S/m; ε_r = 42.059; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.55, 6.55, 6.55) @ 683 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2019/11/14
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.581 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.57 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.736 W/kg
SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.332 W/kg
Maximum value of SAR (measured) = 0.568 W/kg



0 dB = 0.568 W/kg = -2.46 dBW/kg

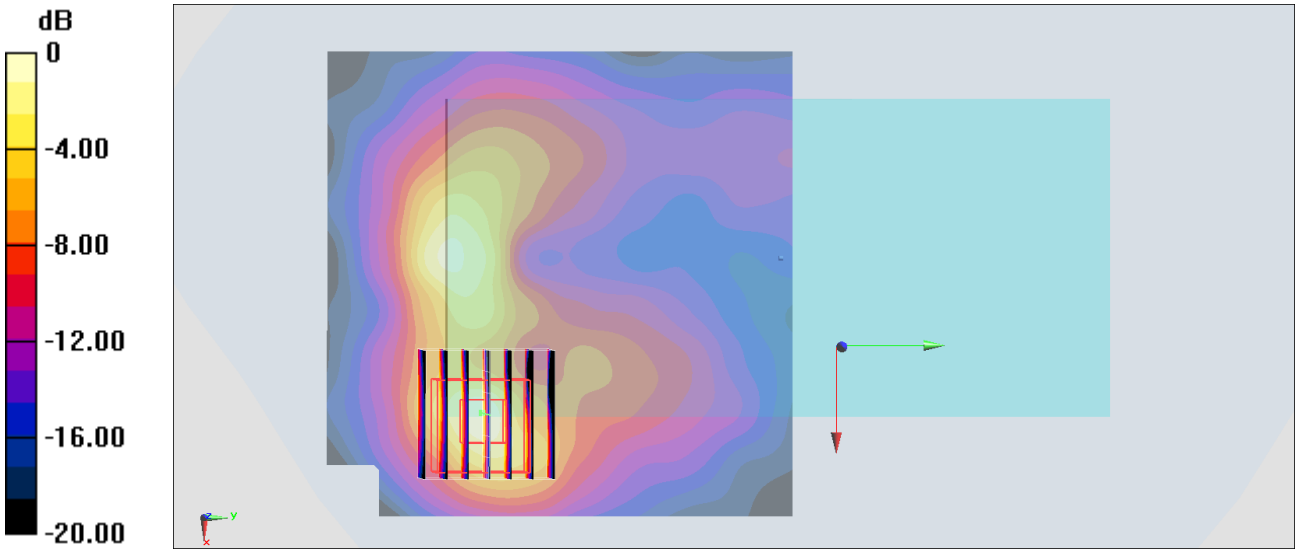
#75_LTE Band 41_20M_QPSK_1_49_Back_10mm_Ch41490

Communication System: LTE; Frequency: 2680 MHz;Duty Cycle: 1:1.59
Medium: HSL_2600_200725 Medium parameters used: f = 2680 MHz; σ = 2.108 S/m; ε_r = 38.84; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(7.08, 7.08, 7.08) @ 2680 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.43 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.50 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.81 W/kg
SAR(1 g) = 0.826 W/kg; SAR(10 g) = 0.335 W/kg
Maximum value of SAR (measured) = 1.43 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

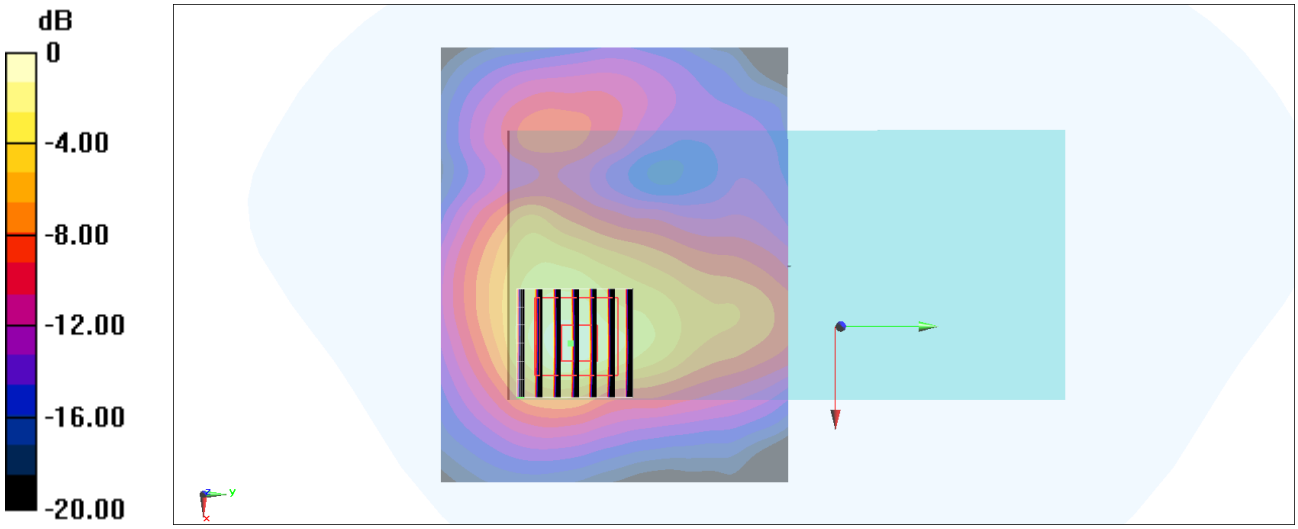
#76_LTE Band 48_20M_QPSK_1_0_Back_10mm_Ch56640

Communication System: LTE; Frequency: 3690 MHz;Duty Cycle: 1:1.59
Medium: HSL_3700_200726 Medium parameters used : f = 3690 MHz; σ = 3.238 S/m; ε_r = 38.279; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3642; ConvF(6.45, 6.45, 6.45) @ 3690 MHz; Calibrated: 2020/4/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 2019/12/6
- Phantom: SAM_Right; Type: SAM; Serial: TP:1681
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (101x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.74 W/kg

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm
Reference Value = 21.89 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 2.49 W/kg
SAR(1 g) = 0.871 W/kg; SAR(10 g) = 0.343 W/kg
Maximum value of SAR (measured) = 1.71 W/kg



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

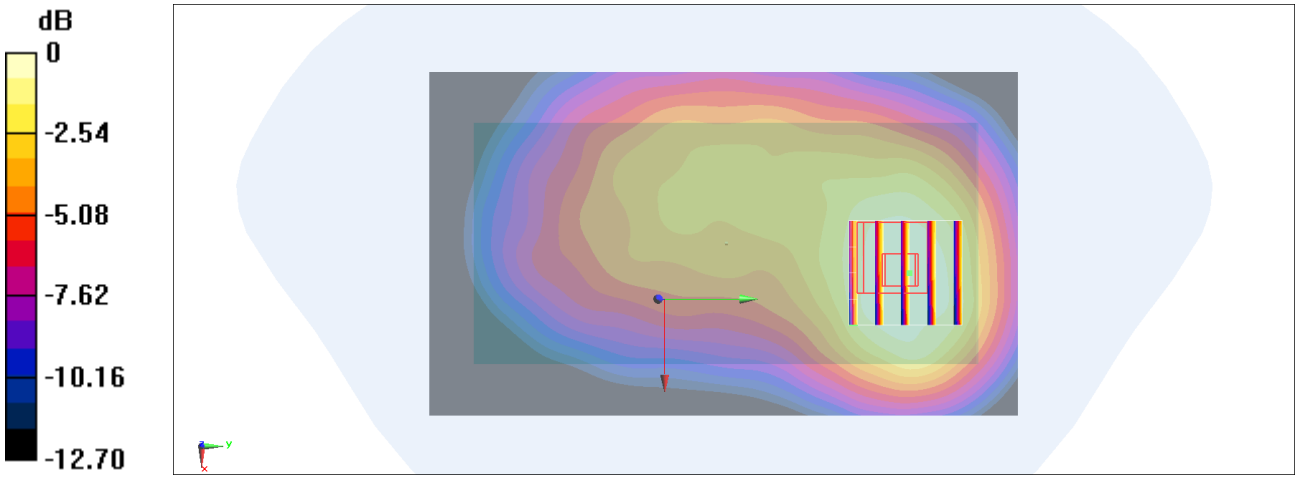
#77_LTE Sub 6G N5_20M_BPSK_1_53_Back_10mm_Ch167300

Communication System: NR; Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: HSL_850_200717 Medium parameters used : f = 836.5 MHz; σ = 0.935 S/m; ε_r = 42.503; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃; Liquid Temperature：22.6 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3184; ConvF(6.41, 6.41, 6.41) @ 836.5 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn916; Calibrated: 2019/12/17
- Phantom: SAM_Right; Type: QD000P40CD; Serial: TP:1683
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.313 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.72 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.356 W/kg
SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.179 W/kg
Maximum value of SAR (measured) = 0.298 W/kg



0 dB = 0.298 W/kg = -5.26 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2020/7/17

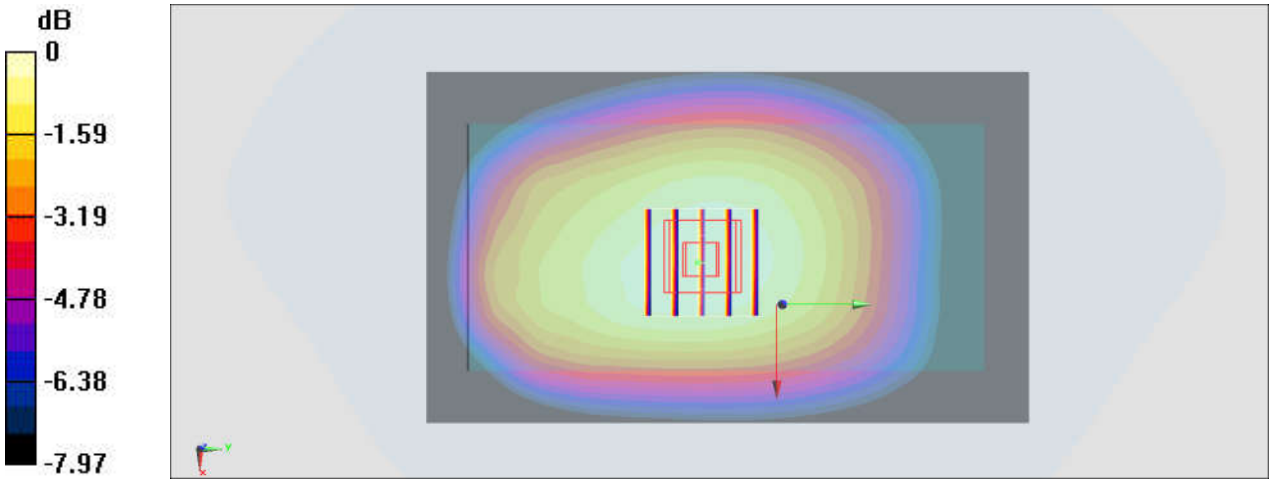
#78_LTE Sub 6G N12_15M_BPSK_36_22_Back_10mm_Ch141500

Communication System: NR; Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: HSL_750_200717 Medium parameters used : f = 707.5 MHz; σ = 0.881 S/m; ε_r = 41.573; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.55, 6.55, 6.55) @ 707.5 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2020/2/18
- Phantom: SAM_Left; Type: SAM; Serial: 1796
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.453 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.82 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.521 W/kg
SAR(1 g) = 0.414 W/kg; SAR(10 g) = 0.317 W/kg
Maximum value of SAR (measured) = 0.454 W/kg



0 dB = 0.454 W/kg = -3.43 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2020/7/18

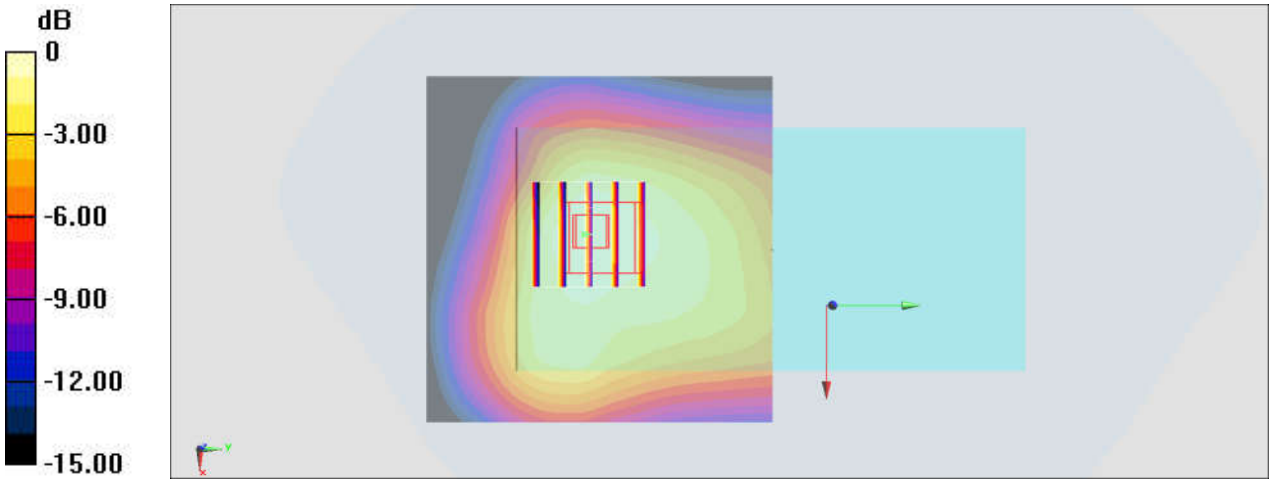
#79_LTE Sub 6G N25_20M_BPSK_1_53_Front_10mm_Ch376000

Communication System: NR; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: HSL_1900_200718 Medium parameters used: f = 1880 MHz; σ = 1.414 S/m; ε_r = 40.41; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.2, 5.2, 5.2) @ 1880 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2020/2/18
- Phantom: SAM_Left; Type: SAM; Serial: 1796
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.08 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.80 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.878 W/kg; SAR(10 g) = 0.568 W/kg
Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2020/7/18

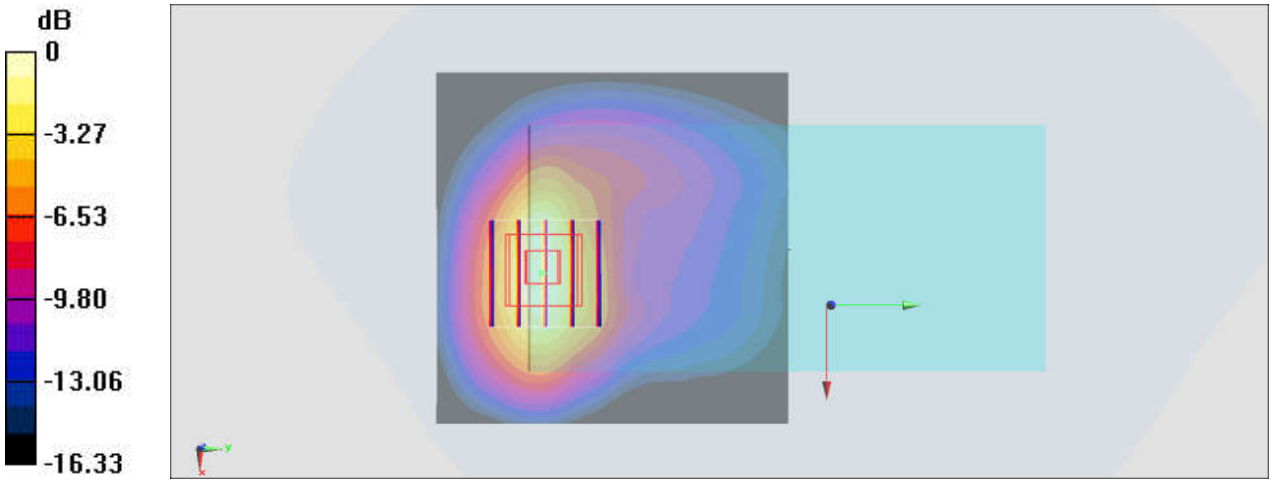
#80_LTE Sub 6G N66_20M_BPSK_50_28_Back_10mm_Ch344000

Communication System: NR; Frequency: 1720 MHz;Duty Cycle: 1:1
Medium: HSL_1750_200718 Medium parameters used: f = 1720 MHz; σ = 1.323 S/m; ε_r = 41.499; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(5.41, 5.41, 5.41) @ 1720 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2020/2/18
- Phantom: SAM_Left; Type: SAM; Serial: 1796
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.990 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.48 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.802 W/kg; SAR(10 g) = 0.443 W/kg
Maximum value of SAR (measured) = 0.991 W/kg



0 dB = 0.991 W/kg = -0.04 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2020/7/17

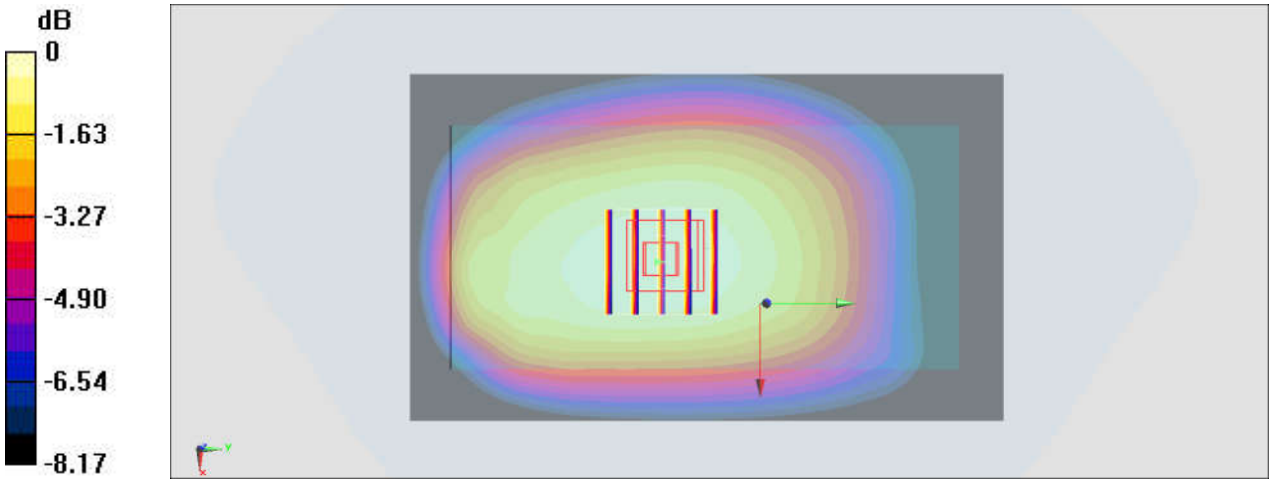
#81_LTE Sub 6G N71_20M_BPSK_1_53_Back_10mm_Ch136100

Communication System: NR; Frequency: 680.5 MHz;Duty Cycle: 1:1
Medium: HSL_750_200717 Medium parameters used : f = 680.5 MHz; σ = 0.871 S/m; ε_r = 41.683; ρ = 1000 kg/m^3
Ambient Temperature：23.2 ℃; Liquid Temperature：22.2 ℃

DASY5 Configuration:
- Probe: ES3DV3 - SN3270; ConvF(6.55, 6.55, 6.55) @ 680.5 MHz; Calibrated: 2019/9/25
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1399; Calibrated: 2020/2/18
- Phantom: SAM_Left; Type: SAM; Serial: 1796
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.486 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.51 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.561 W/kg
SAR(1 g) = 0.445 W/kg; SAR(10 g) = 0.342 W/kg
Maximum value of SAR (measured) = 0.488 W/kg



0 dB = 0.488 W/kg = -3.12 dBW/kg

#82_WLAN2.4GHz_802.11b 1Mbps_Back_10mm_Ch1

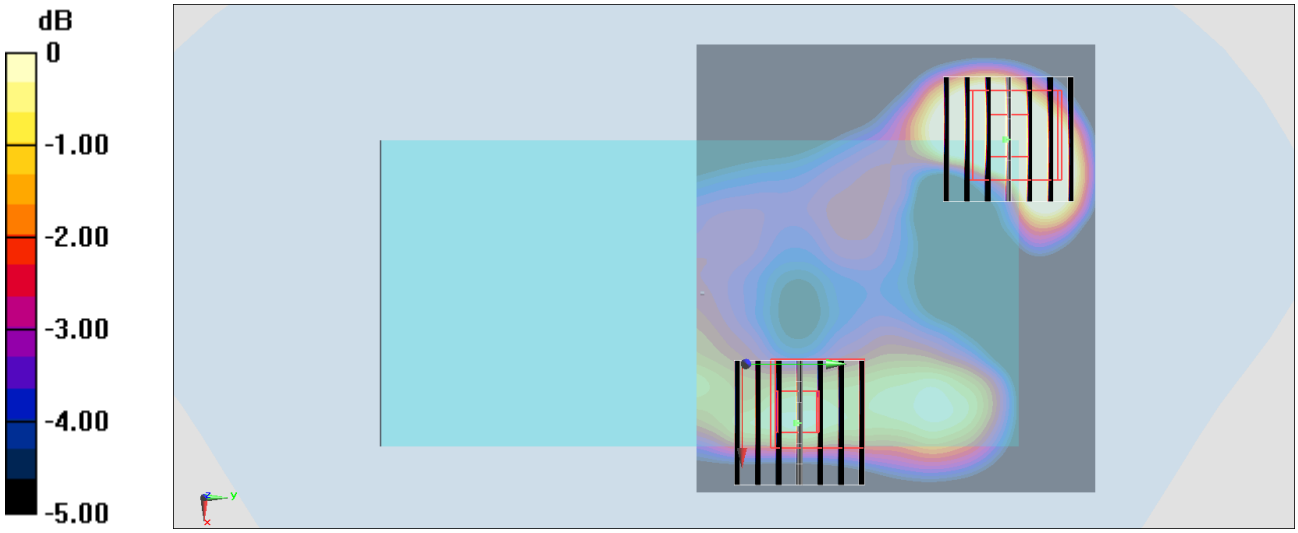
Communication System: 802.11b ; Frequency: 2412 MHz;Duty Cycle: 1:1
Medium: HSL_2450_200710 Medium parameters used: f = 2412 MHz; σ = 1.73 S/m; ε_r = 38.747; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(7.33, 7.33, 7.33) @ 2412 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (91x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.973 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.91 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.591 W/kg; SAR(10 g) = 0.268 W/kg
Maximum value of SAR (measured) = 0.985 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.91 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.463 W/kg
SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.112 W/kg
Maximum value of SAR (measured) = 0.352 W/kg



0 dB = 0.352 W/kg = -4.53 dBW/kg

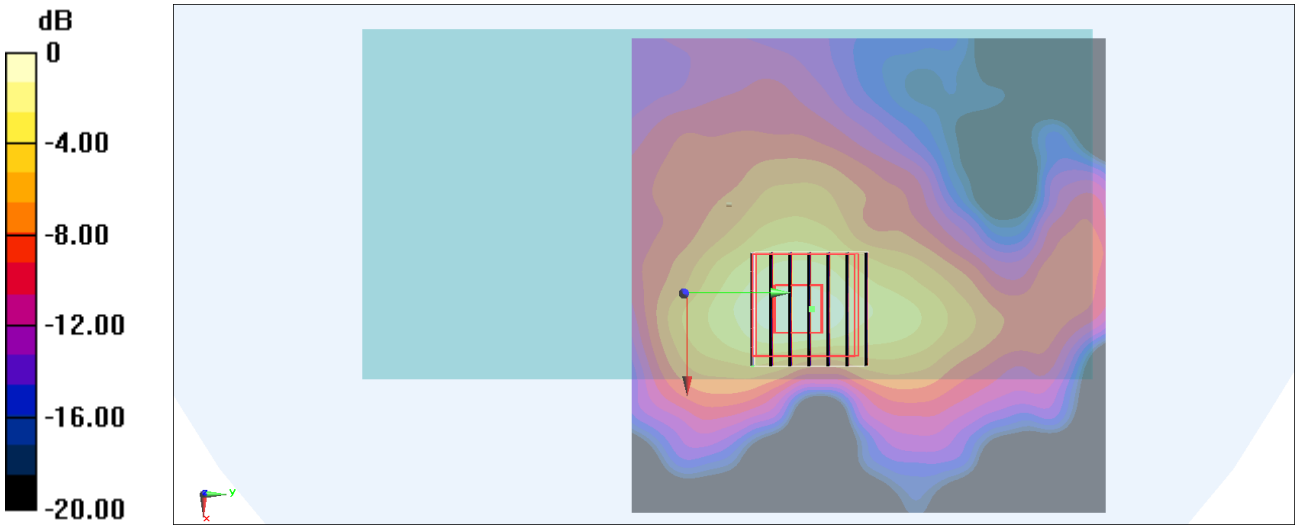
#83_WLAN5GHz_802.11a 6Mbps_Back_10mm_Ch52

Communication System: 802.11a; Frequency: 5260 MHz;Duty Cycle: 1:1.022
Medium: HSL_5G_200729 Medium parameters used: f = 5260 MHz; σ = 4.637 S/m; ε_r = 36.646; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3642; ConvF(4.43, 4.43, 4.43) @ 5260 MHz; Calibrated: 2020/4/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 2019/12/6
- Phantom: SAM_Right; Type: SAM; Serial: TP:1681
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.11 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 11.84 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.94 W/kg
SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.158 W/kg
Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

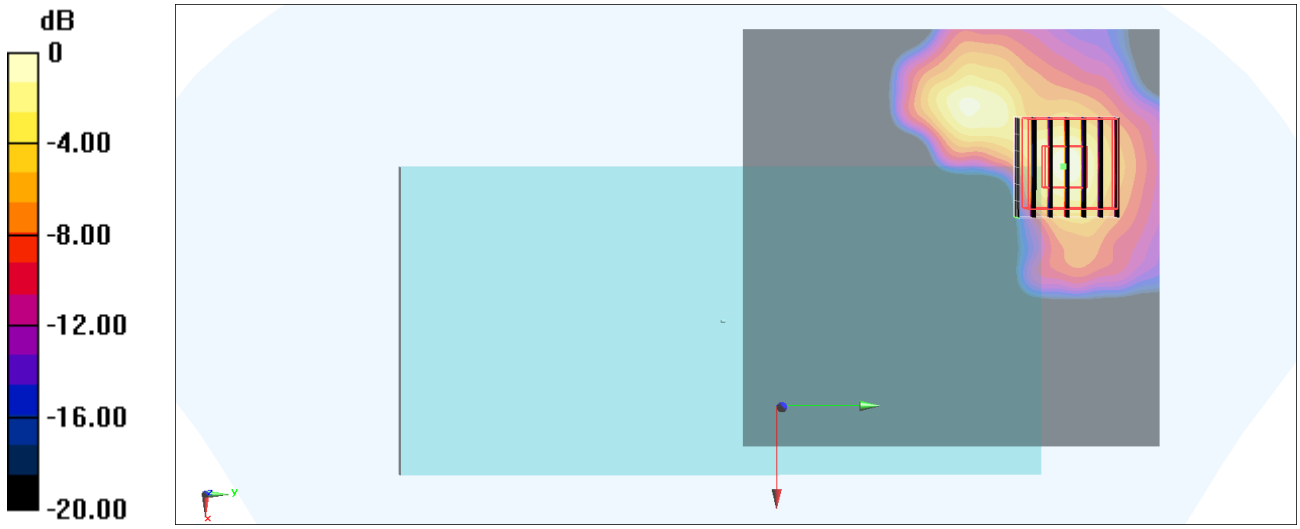
#84_WLAN5GHz_802.11a 6Mbps_Back_10mm_Ch116

Communication System: 802.11a; Frequency: 5580 MHz;Duty Cycle: 1:1.022
Medium: HSL_5G_200729 Medium parameters used: f = 5580 MHz; σ = 4.959 S/m; ε_r = 36.123; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3642; ConvF(4.19, 4.19, 4.19) @ 5580 MHz; Calibrated: 2020/4/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 2019/12/6
- Phantom: SAM_Right; Type: SAM; Serial: TP:1681
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.884 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 8.814 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.122 W/kg
Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

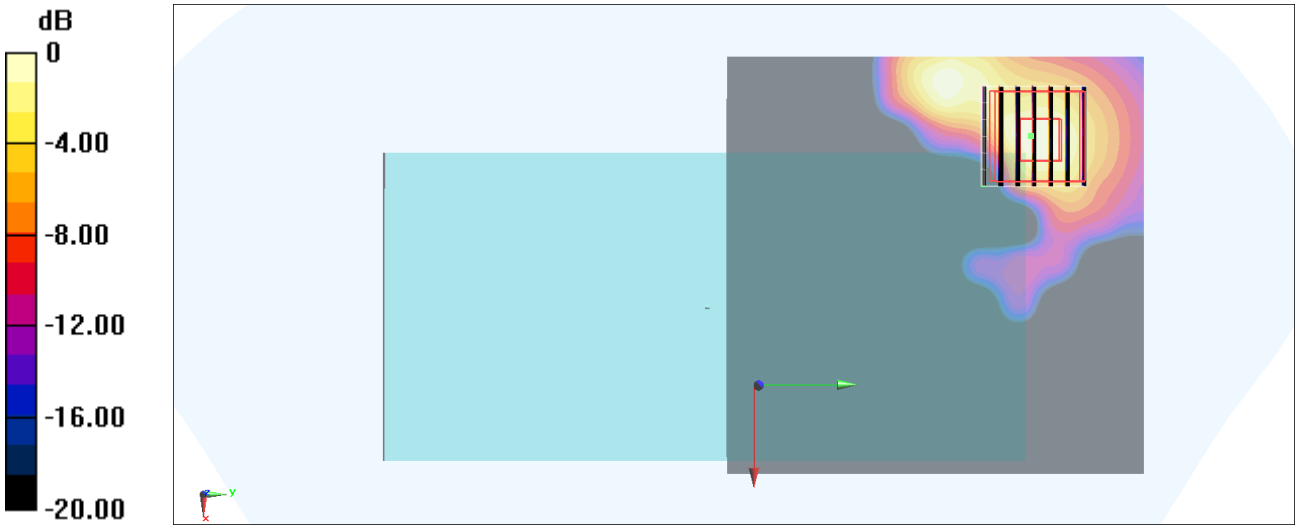
#85_WLAN5GHz_802.11a 6Mbps_Back_10mm_Ch149

Communication System: 802.11a; Frequency: 5745 MHz;Duty Cycle: 1:1.022
Medium: HSL_5G_200729 Medium parameters used: f = 5745 MHz; σ = 5.141 S/m; ε_r = 35.938; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3642; ConvF(4.17, 4.17, 4.17) @ 5745 MHz; Calibrated: 2020/4/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 2019/12/6
- Phantom: SAM_Right; Type: SAM; Serial: TP:1681
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.896 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.114 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.46 W/kg
SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.099 W/kg
Maximum value of SAR (measured) = 0.865 W/kg



0 dB = 0.865 W/kg = -0.63 dBW/kg

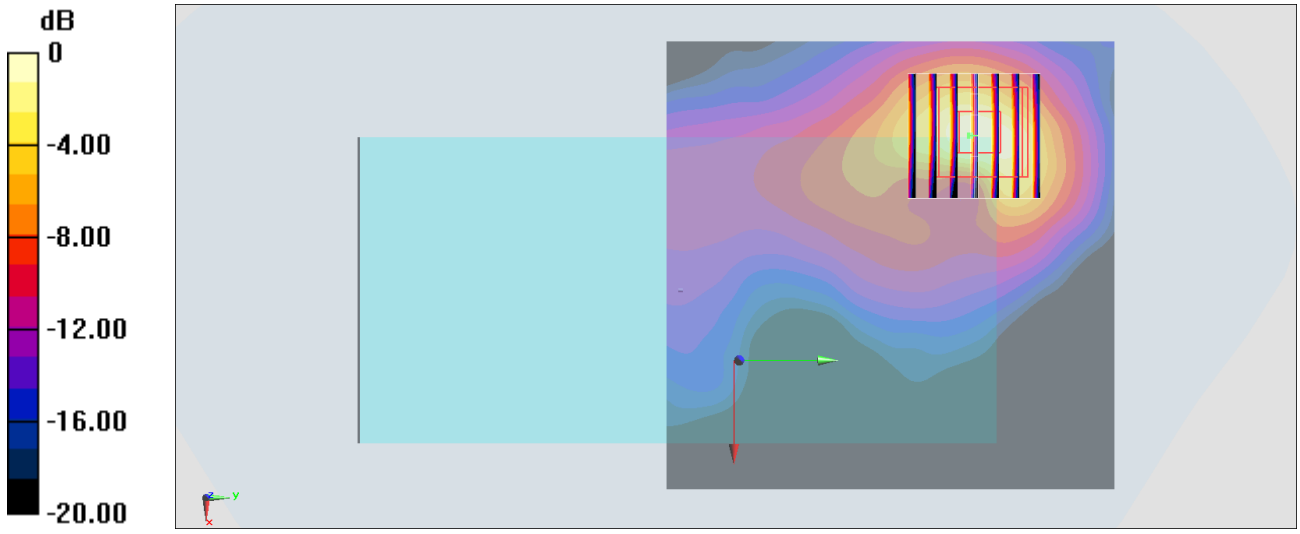
#86_Bluetooth_1Mbps_Back_10mm_Ch78

Communication System: Bluetooth ; Frequency: 2480 MHz;Duty Cycle: 1:1.297
Medium: HSL_2450_200710 Medium parameters used: f = 2480 MHz; σ = 1.829 S/m; ε_r = 38.458; ρ = 1000 kg/m^3
Ambient Temperature：23.5 ℃; Liquid Temperature：22.5 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(7.33, 7.33, 7.33) @ 2480 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM-Middle; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (91x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.571 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.99 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.717 W/kg
SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.156 W/kg
Maximum value of SAR (measured) = 0.578 W/kg



0 dB = 0.578 W/kg = -2.38 dBW/kg

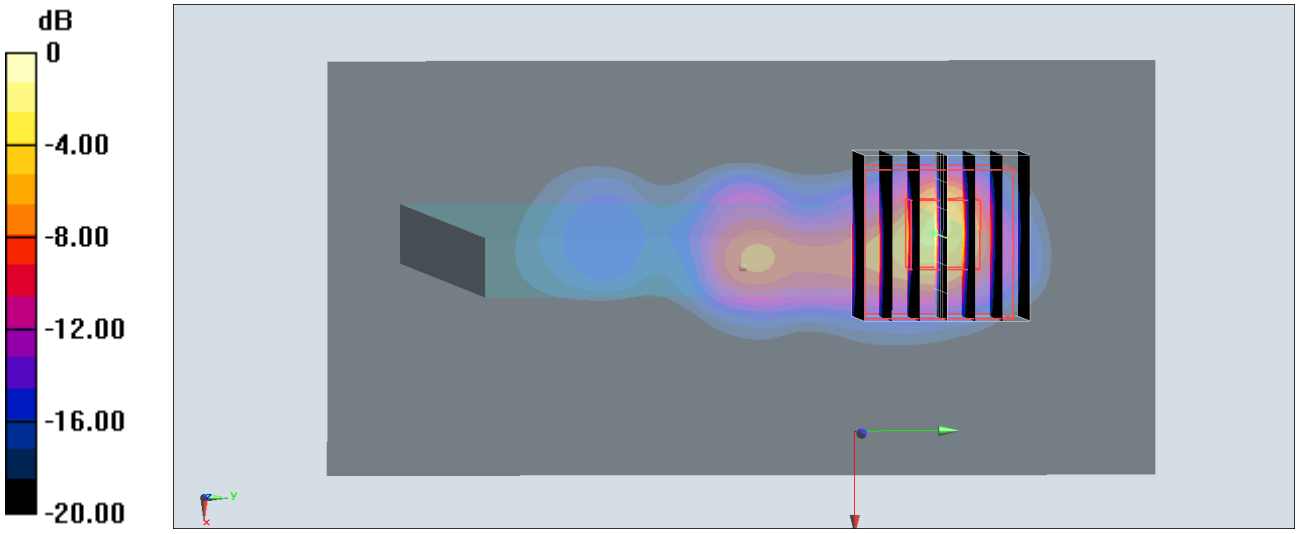
#87_WLAN5GHz_802.11a 6Mbps_Top Side_0mm_Ch52

Communication System: 802.11a; Frequency: 5260 MHz;Duty Cycle: 1:1.02
Medium: HSL_5G_200716 Medium parameters used: f = 5260 MHz; σ = 4.515 S/m; ε_r = 35.587; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃; Liquid Temperature：22.4 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(5.14, 5.14, 5.14) @ 5260 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM_Left; Type: QD000P40CD; Serial: TP:1477
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.84 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 36.09 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 29.0 W/kg
SAR(1 g) = 4.61 W/kg; SAR(10 g) = 0.896 W/kg
Maximum value of SAR (measured) = 17.0 W/kg



0 dB = 17.0 W/kg = 12.30 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2020/7/27

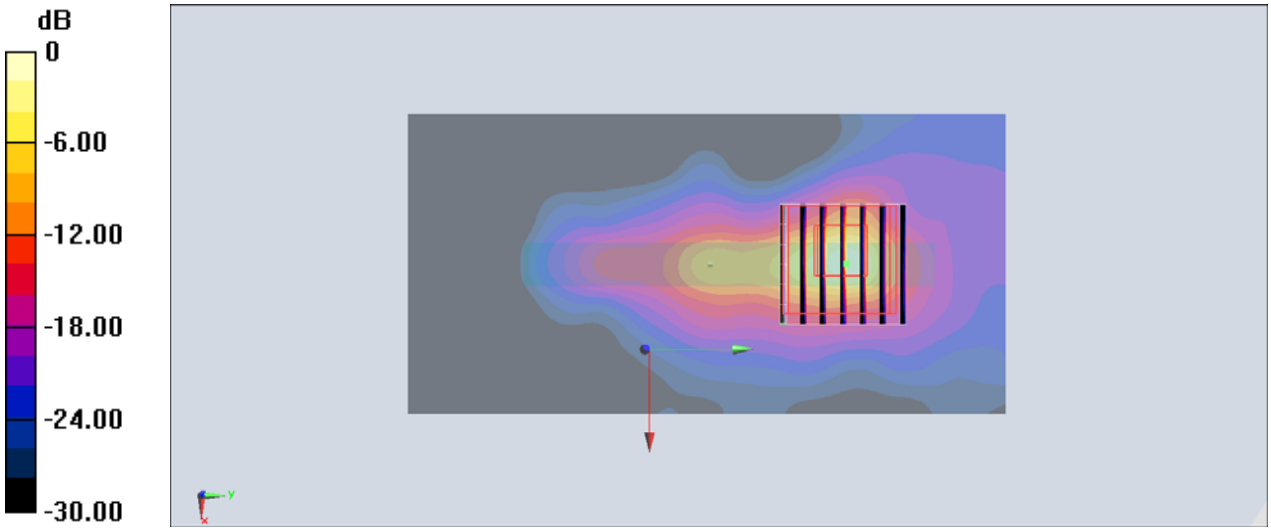
#88_WLAN5GHz_802.11a 6Mbps_Top Side_0mm_Ch116

Communication System: 802.11a; Frequency: 5580 MHz;Duty Cycle: 1:1.022
Medium: HSL_5G_200727 Medium parameters used: f = 5580 MHz; σ = 5.188 S/m; ε_r = 36.672; ρ = 1000 kg/m^3
Ambient Temperature：23.3 ℃; Liquid Temperature：22.3 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN3728; ConvF(4.57, 4.57, 4.57) @ 5580 MHz; Calibrated: 2020/2/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn699; Calibrated: 2020/2/26
- Phantom: SAM_Left; Type: QD000P40CB; Serial: S/N:1488
- Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 22.3 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 38.72 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 52.8 W/kg
SAR(1 g) = 7.41 W/kg; SAR(10 g) = 1.37 W/kg
Maximum value of SAR (measured) = 23.9 W/kg



0 dB = 23.9 W/kg = 13.78 dBW/kg