Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

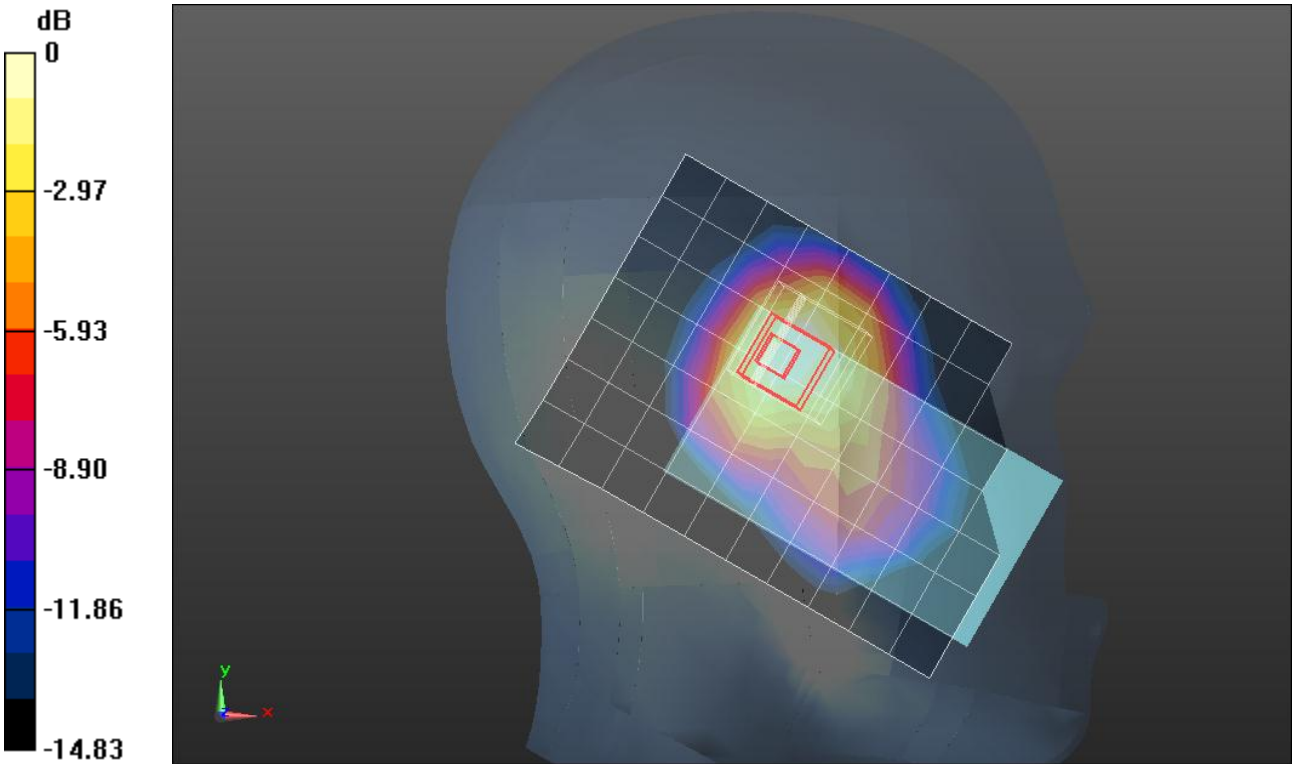
Frequency: 1855 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1855 MHz; σ = 1.362 mho/m; ε_r = 38.724; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/QPSK RB 1_0/Ch 18650ch/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.035 mW/g

Left Touch/QPSK RB 1_0/Ch 18650ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.570 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.4060
SAR(1 g) = 0.814 mW/g; SAR(10 g) = 0.477 mW/g
Maximum value of SAR (measured) = 1.017 mW/g



0 dB = 1.020mW/g = 0.17 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

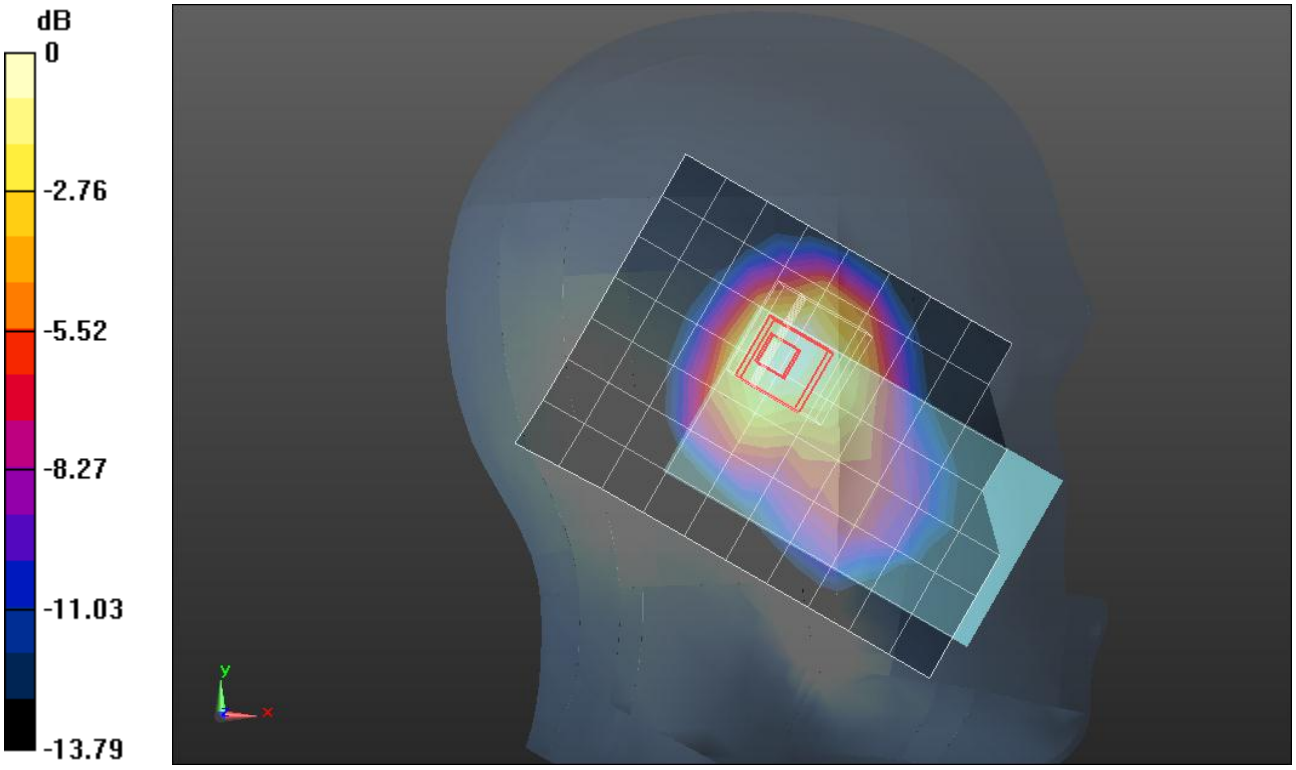
Frequency: 1855 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1855 MHz; σ = 1.362 mho/m; ε_r = 38.724; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/QPSK RB 1_49/Ch 18650/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.041 mW/g

Left Touch/QPSK RB 1_49/Ch 18650/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.073 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.5010
SAR(1 g) = 0.852 mW/g; SAR(10 g) = 0.498 mW/g
Maximum value of SAR (measured) = 1.061 mW/g



0 dB = 1.060mW/g = 0.51 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

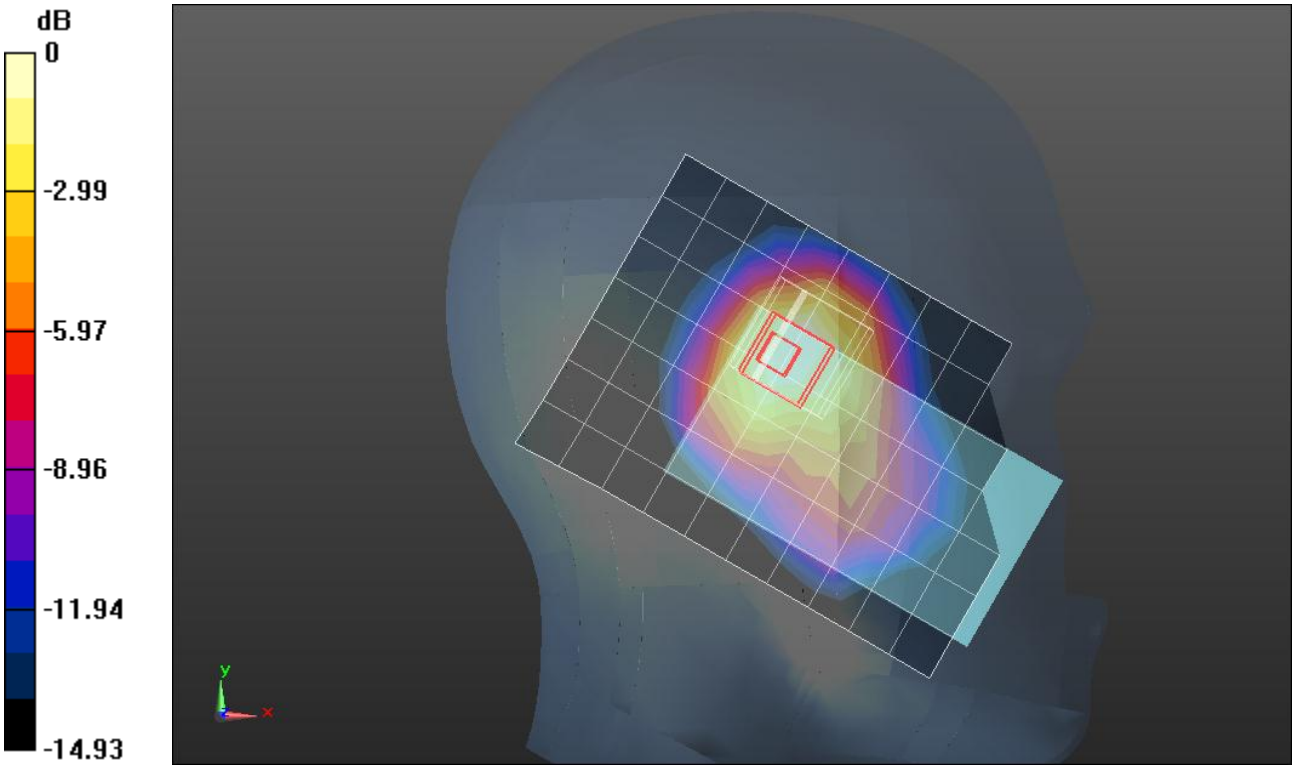
Frequency: 1855 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1855 MHz; σ = 1.362 mho/m; ε_r = 38.724; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/QPSK RB 25_12/Ch 18650/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.933 mW/g

Left Touch/QPSK RB 25_12/Ch 18650/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.262 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.3250
SAR(1 g) = 0.750 mW/g; SAR(10 g) = 0.434 mW/g
Maximum value of SAR (measured) = 0.925 mW/g



0 dB = 0.920mW/g = -0.72 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

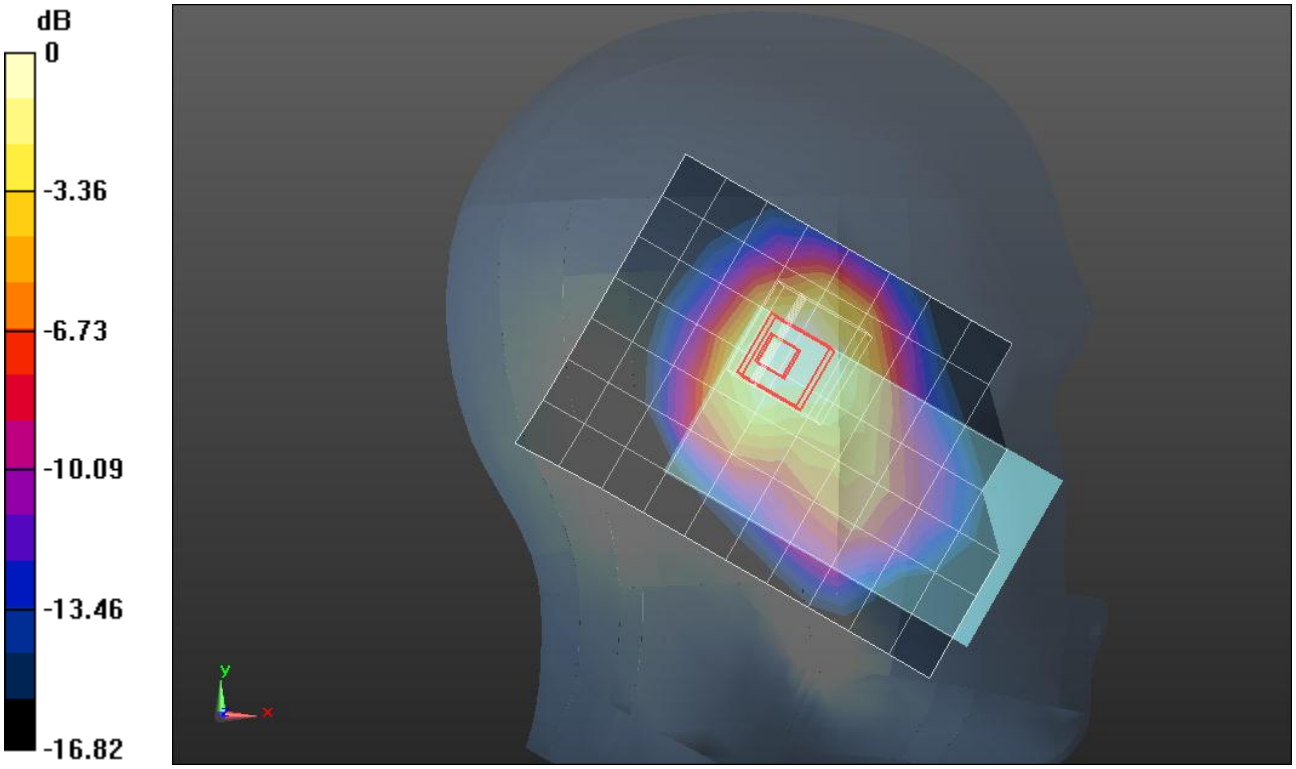
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/QPSK RB 1_0/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.976 mW/g

Left Touch/QPSK RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.824 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.3680
SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.450 mW/g
Maximum value of SAR (measured) = 0.964 mW/g



0 dB = 0.960mW/g = -0.35 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

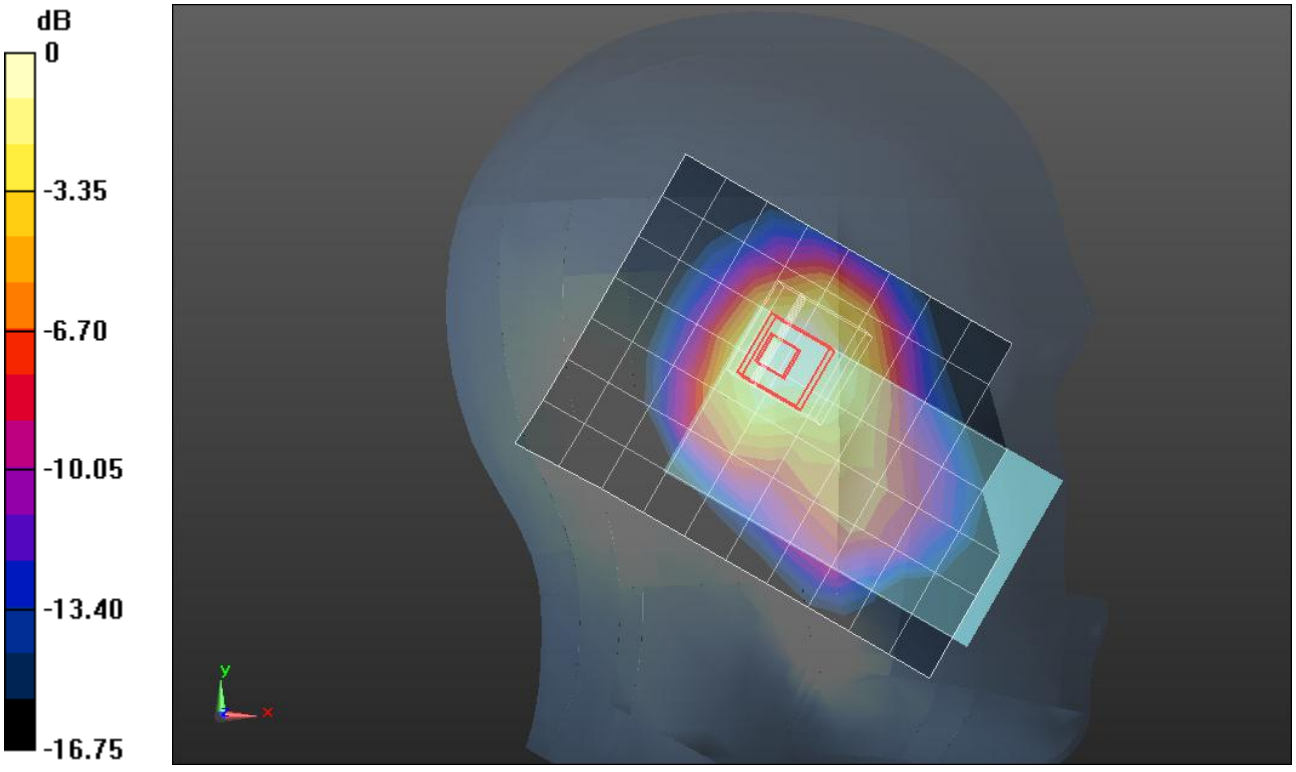
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/QPSK RB 1_49/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.198 mW/g

Left Touch/QPSK RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.939 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.6640
SAR(1 g) = 0.948 mW/g; SAR(10 g) = 0.551 mW/g
Maximum value of SAR (measured) = 1.182 mW/g



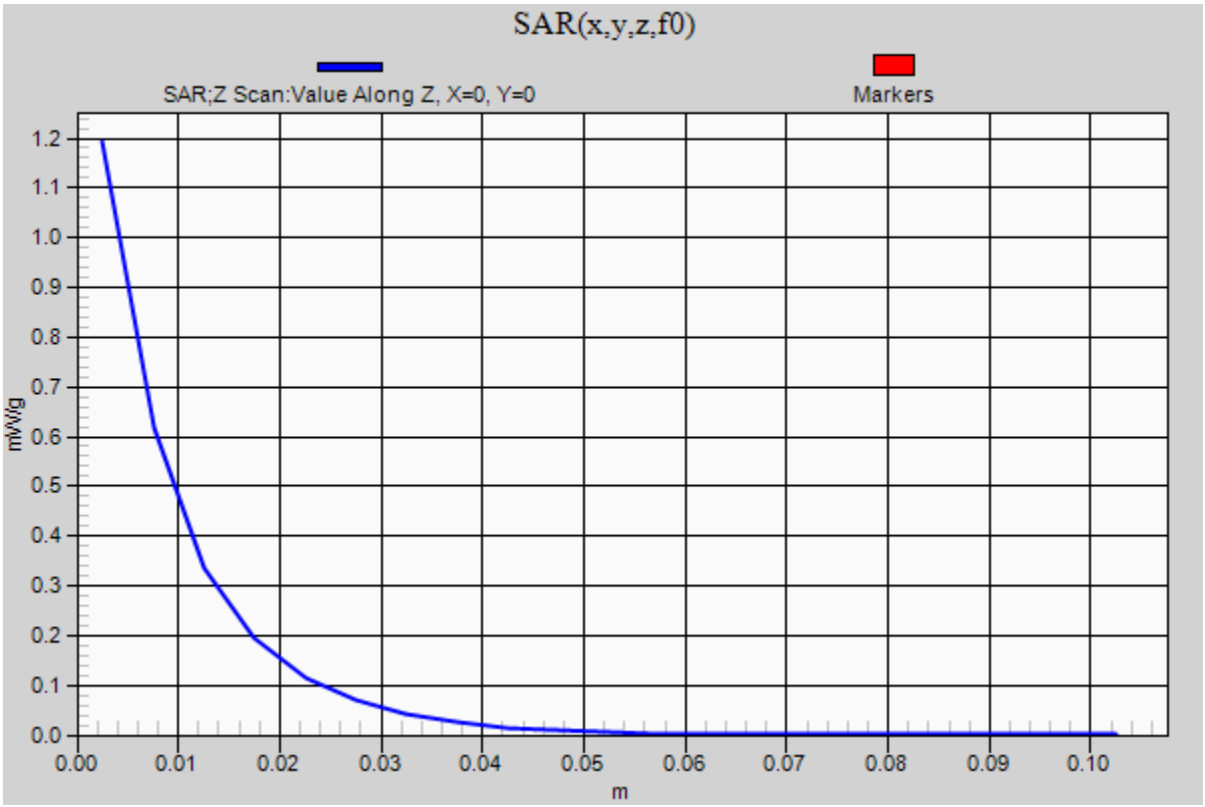
0 dB = 1.180mW/g = 1.44 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

Frequency: 1880 MHz; Duty Cycle: 1:1

Left Touch/QPSK RB 1_49/Ch 18900/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 1.193 mW/g



Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

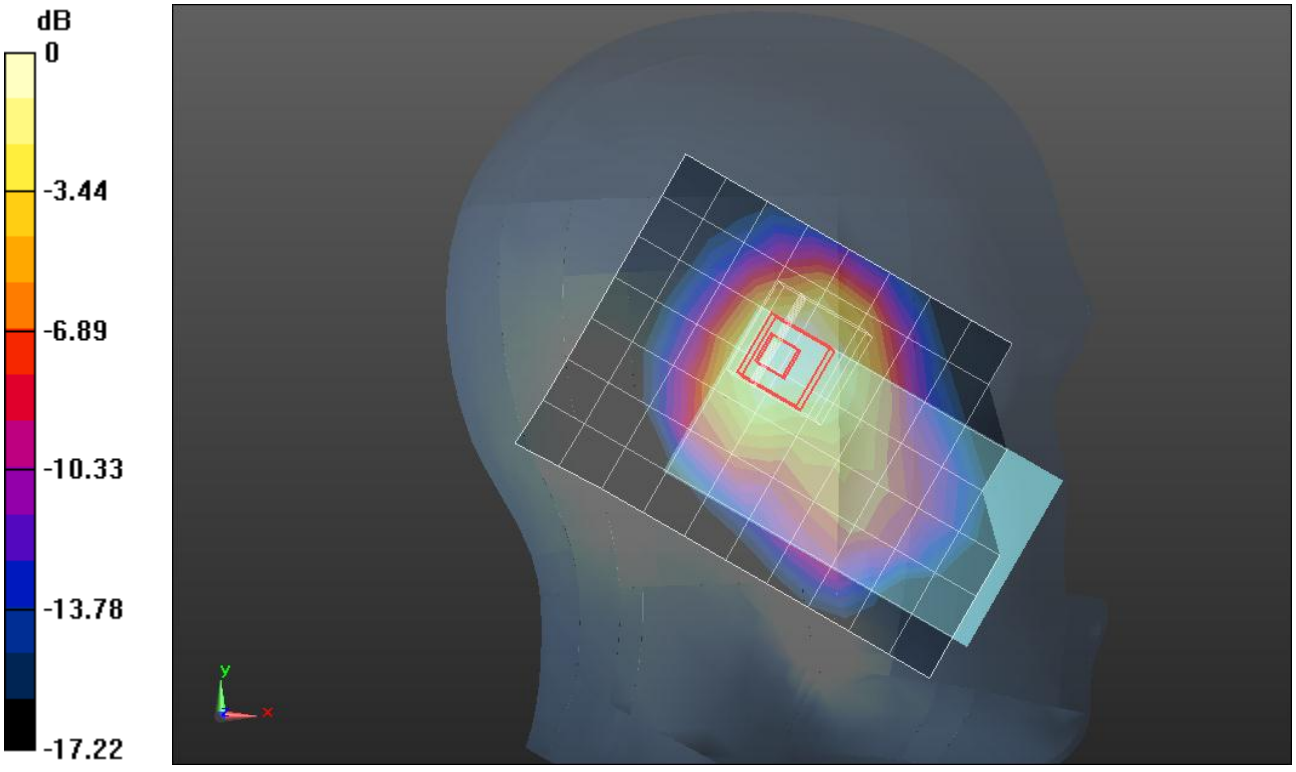
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/QPSK RB 25_12/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.887 mW/g

Left Touch/QPSK RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.483 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.2550
SAR(1 g) = 0.708 mW/g; SAR(10 g) = 0.411 mW/g
Maximum value of SAR (measured) = 0.891 mW/g



0 dB = 0.890mW/g = -1.01 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

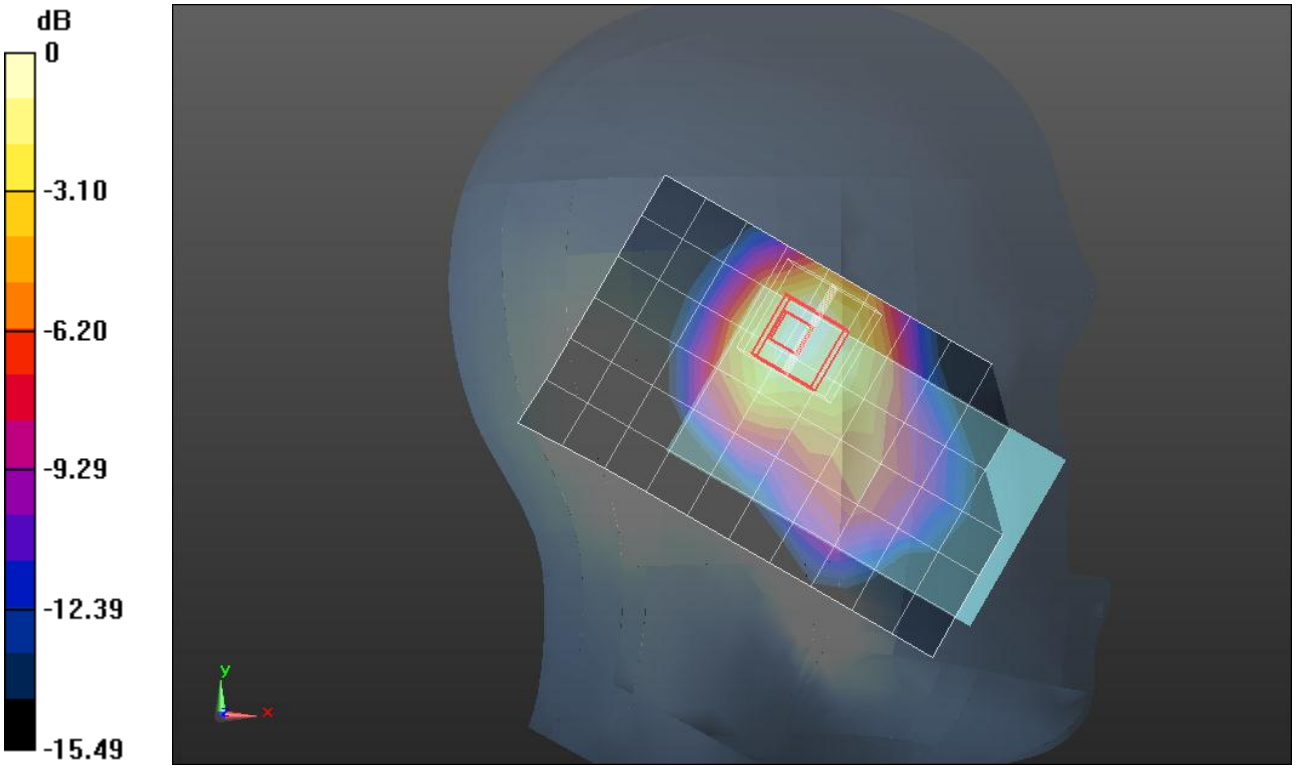
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/16QAM RB 1_0/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.765 mW/g

Left Touch/16QAM RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.047 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.0870
SAR(1 g) = 0.604 mW/g; SAR(10 g) = 0.350 mW/g
Maximum value of SAR (measured) = 0.761 mW/g



0 dB = 0.760mW/g = -2.38 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

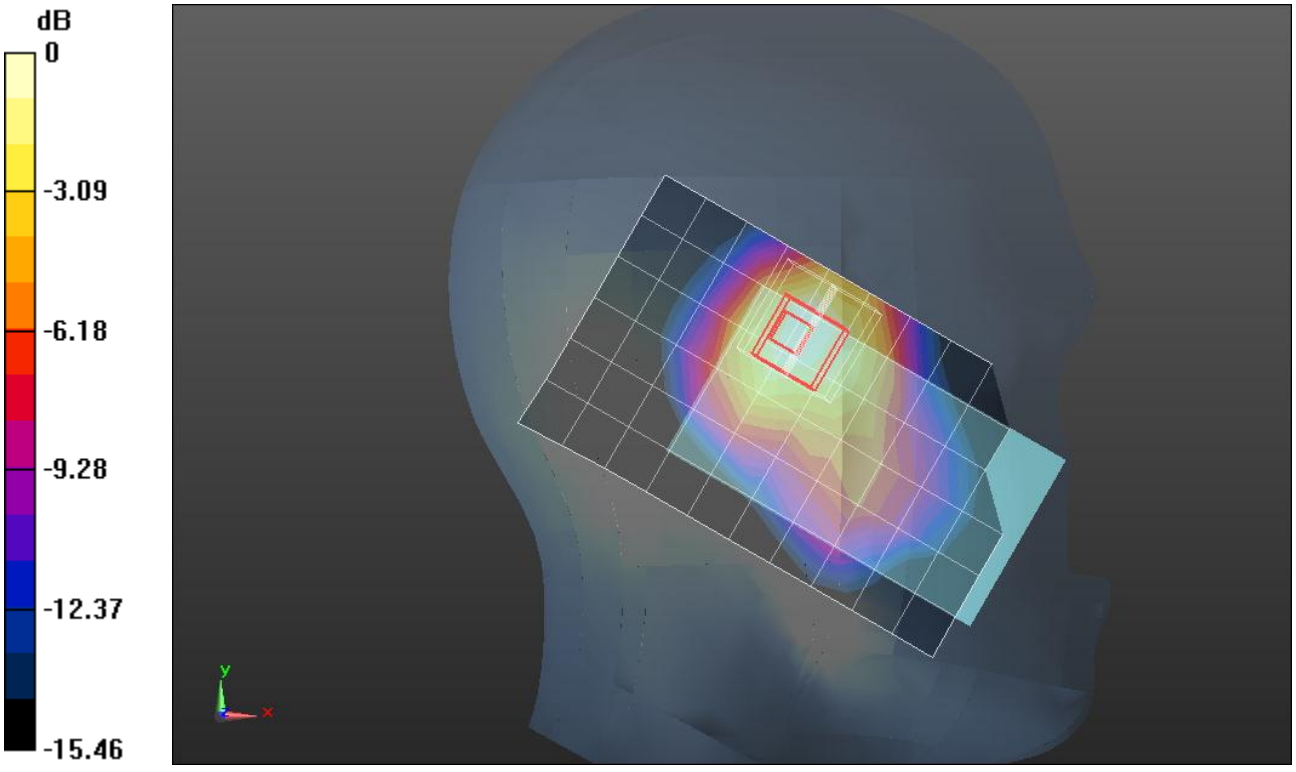
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/16QAM RB 1_49/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.954 mW/g

Left Touch/16QAM RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.753 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.3380
SAR(1 g) = 0.744 mW/g; SAR(10 g) = 0.432 mW/g
Maximum value of SAR (measured) = 0.934 mW/g



0 dB = 0.930mW/g = -0.63 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

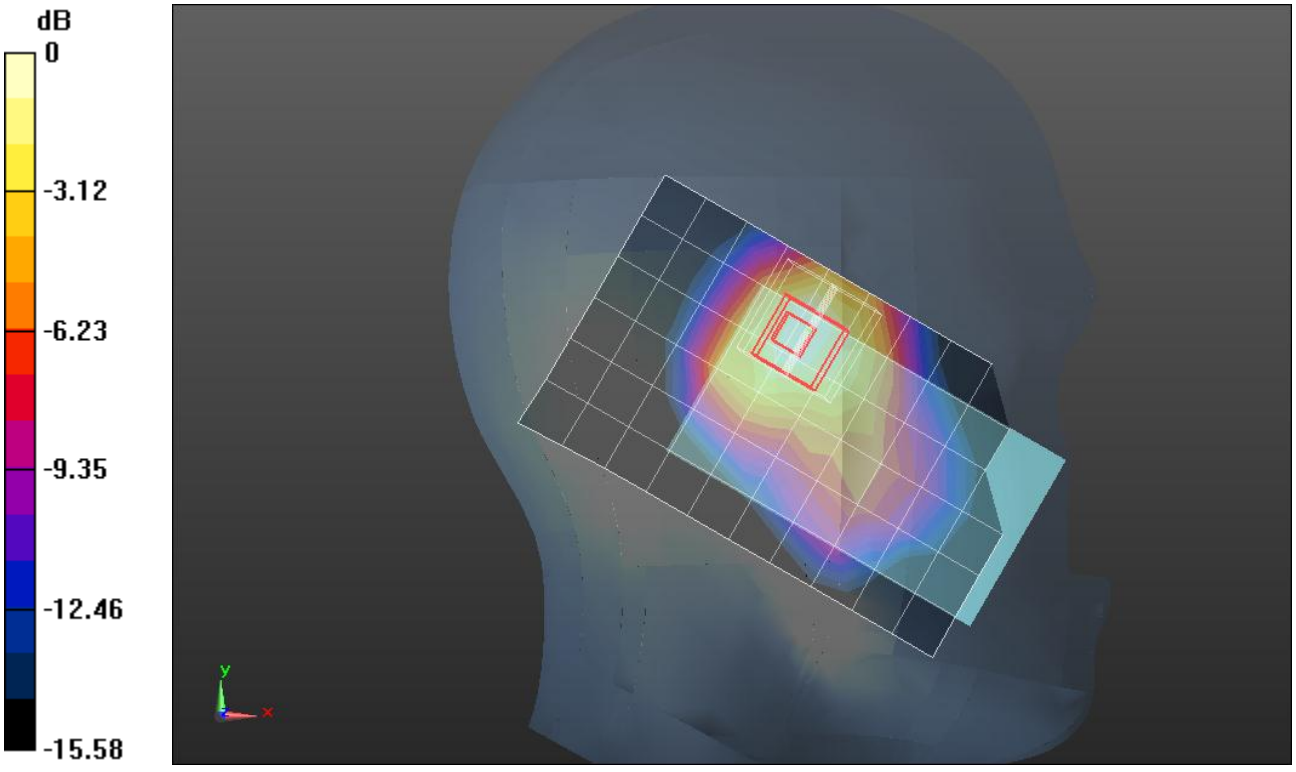
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/16QAM RB 25_12/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.677 mW/g

Left Touch/16QAM RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.410 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.9530
SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.306 mW/g
Maximum value of SAR (measured) = 0.668 mW/g



0 dB = 0.670mW/g = -3.48 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

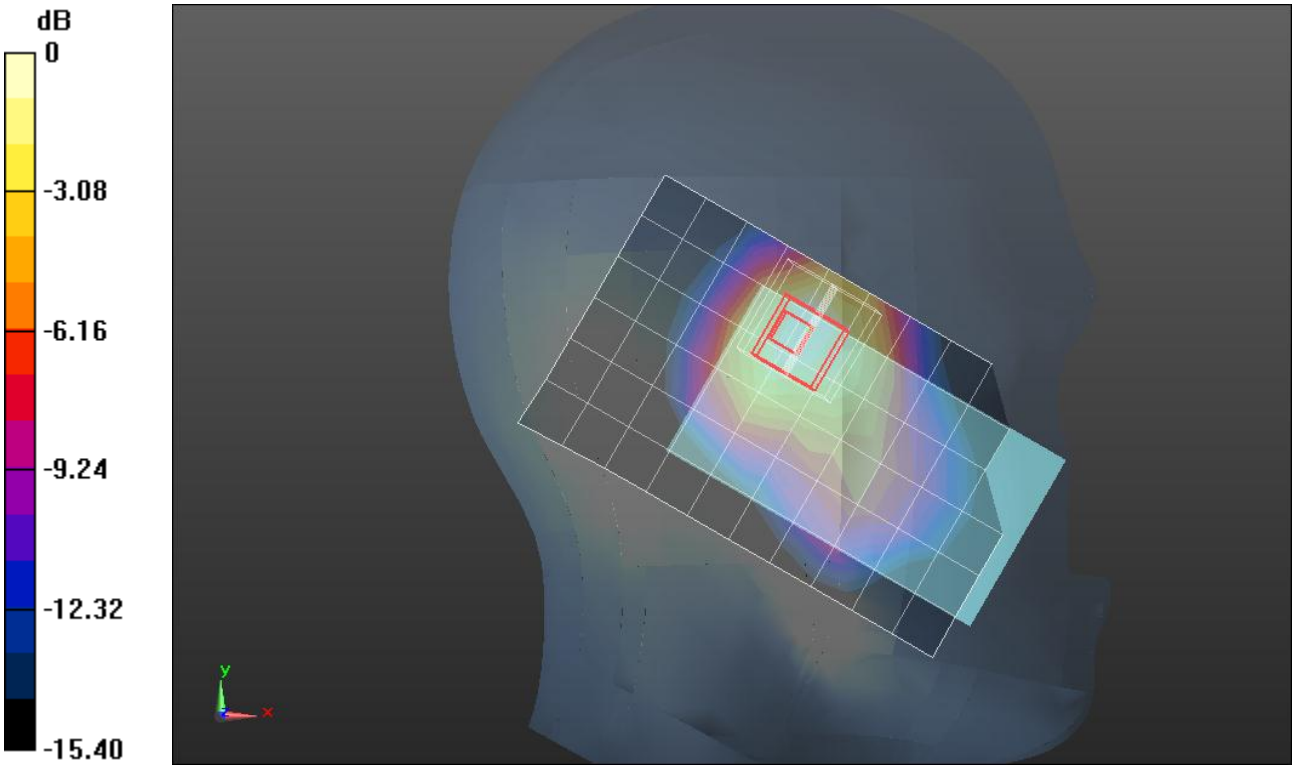
Frequency: 1905 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1905 MHz; σ = 1.415 mho/m; ε_r = 38.522; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/QPSK RB 1_0/Ch 19150/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.013 mW/g

Left Touch/QPSK RB 1_0/Ch 19150/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.241 V/m; Power Drift = 0.0083 dB
Peak SAR (extrapolated) = 1.4050
SAR(1 g) = 0.776 mW/g; SAR(10 g) = 0.449 mW/g
Maximum value of SAR (measured) = 0.979 mW/g



0 dB = 0.980mW/g = -0.18 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

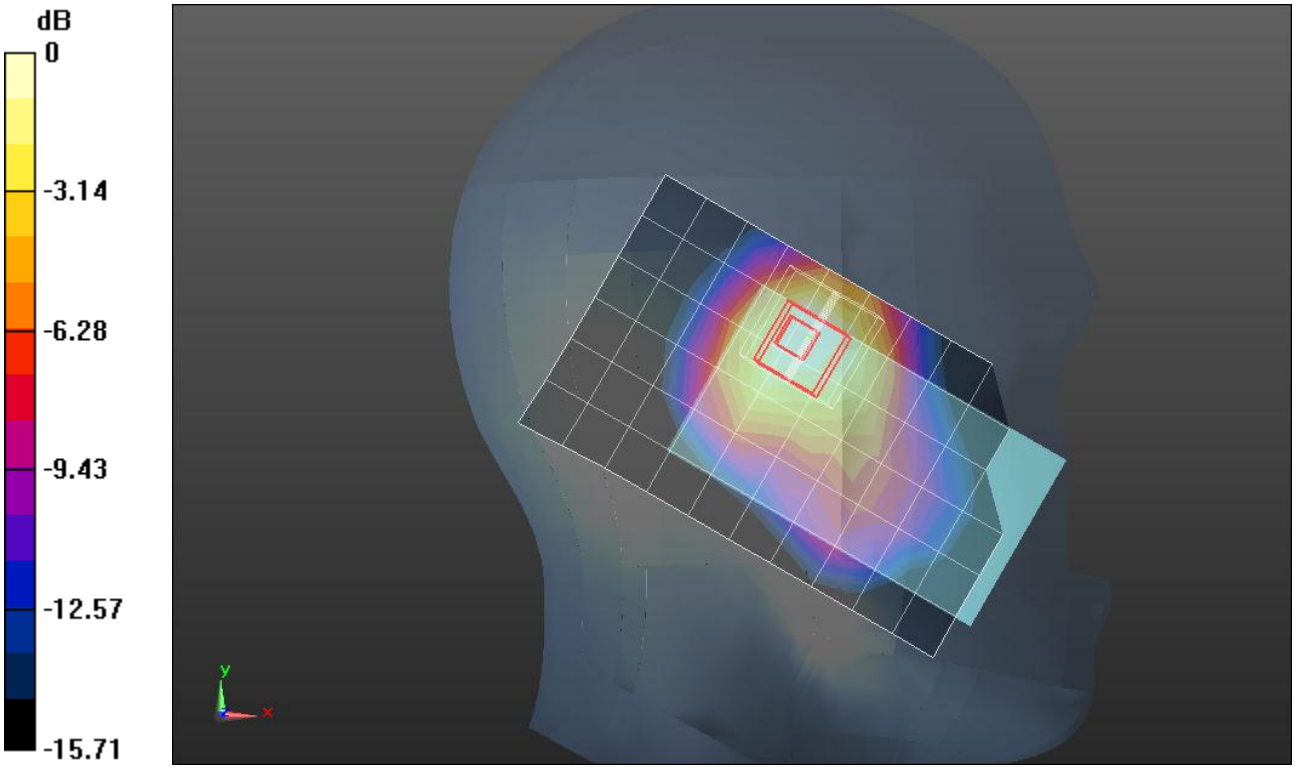
Frequency: 1905 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1905 MHz; σ = 1.415 mho/m; ε_r = 38.522; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/QPSK RB 1_49/Ch 19150/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.997 mW/g

Left Touch/QPSK RB 1_49/Ch 19150/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.809 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.4560
SAR(1 g) = 0.786 mW/g; SAR(10 g) = 0.455 mW/g
Maximum value of SAR (measured) = 1.010 mW/g



0 dB = 1.010mW/g = 0.09 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

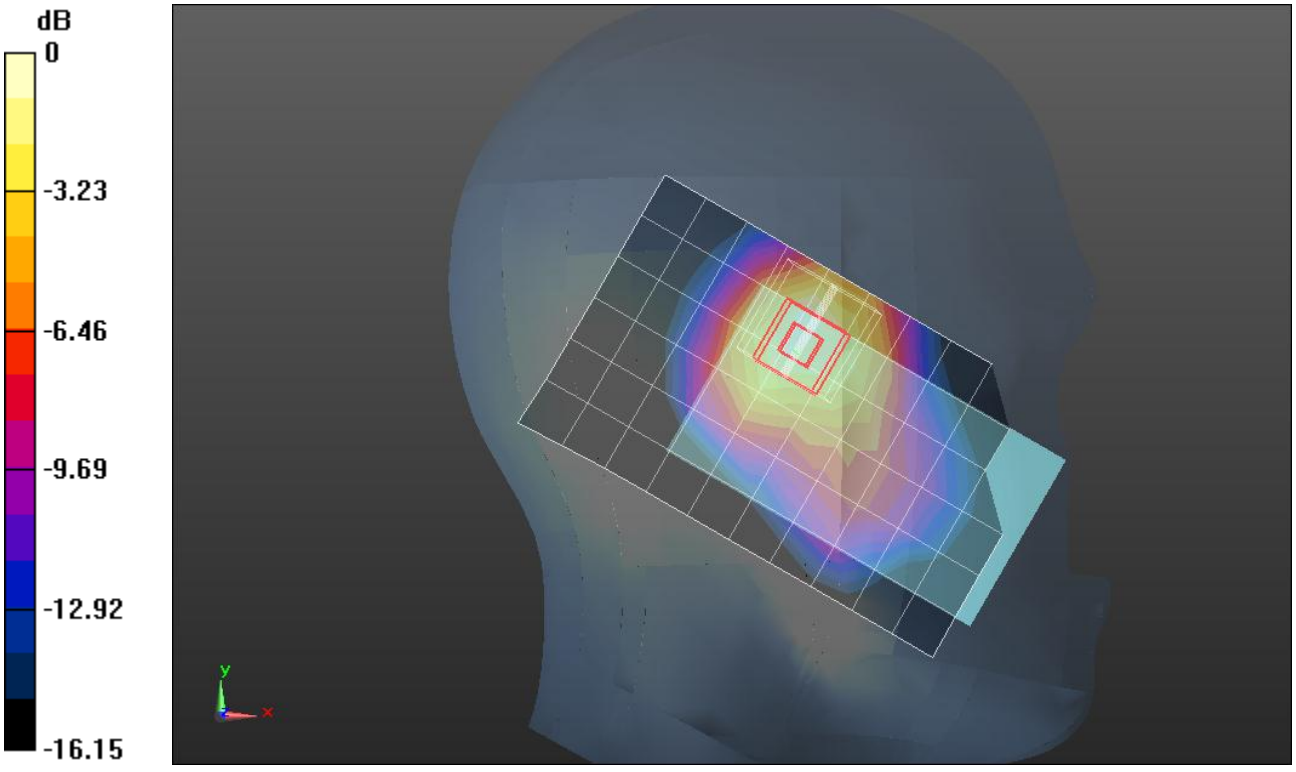
Frequency: 1905 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1905 MHz; σ = 1.415 mho/m; ε_r = 38.522; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Touch/QPSK RB 25_12/Ch 19150/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.004 mW/g

Left Touch/QPSK RB 25_12/Ch 19150/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.153 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.8630
SAR(1 g) = 0.751 mW/g; SAR(10 g) = 0.435 mW/g
Maximum value of SAR (measured) = 1.096 mW/g



0 dB = 1.100mW/g = 0.83 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

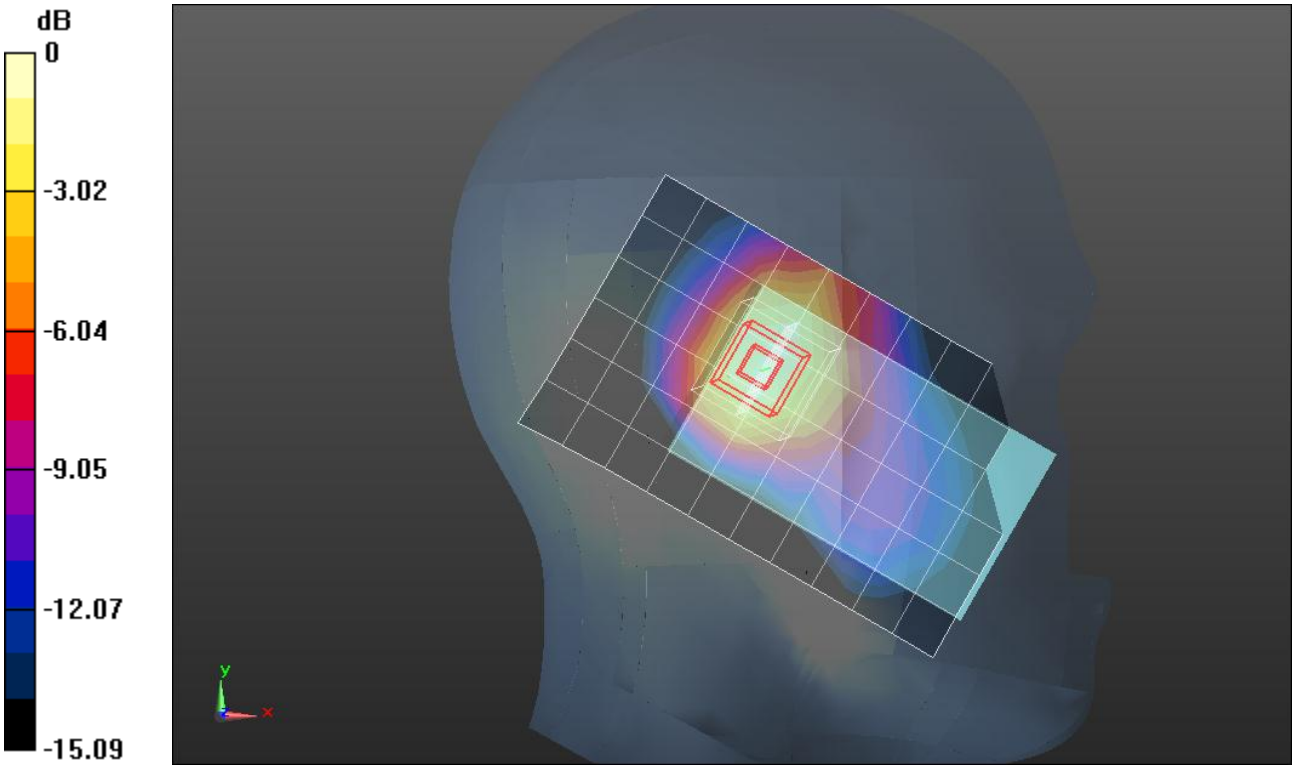
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Tilt/QPSK RB 1_0/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.588 mW/g

Left Tilt/QPSK RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.060 V/m; Power Drift = 0.006 dB
Peak SAR (extrapolated) = 0.8080
SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.315 mW/g
Maximum value of SAR (measured) = 0.664 mW/g



0 dB = 0.660mW/g = -3.61 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

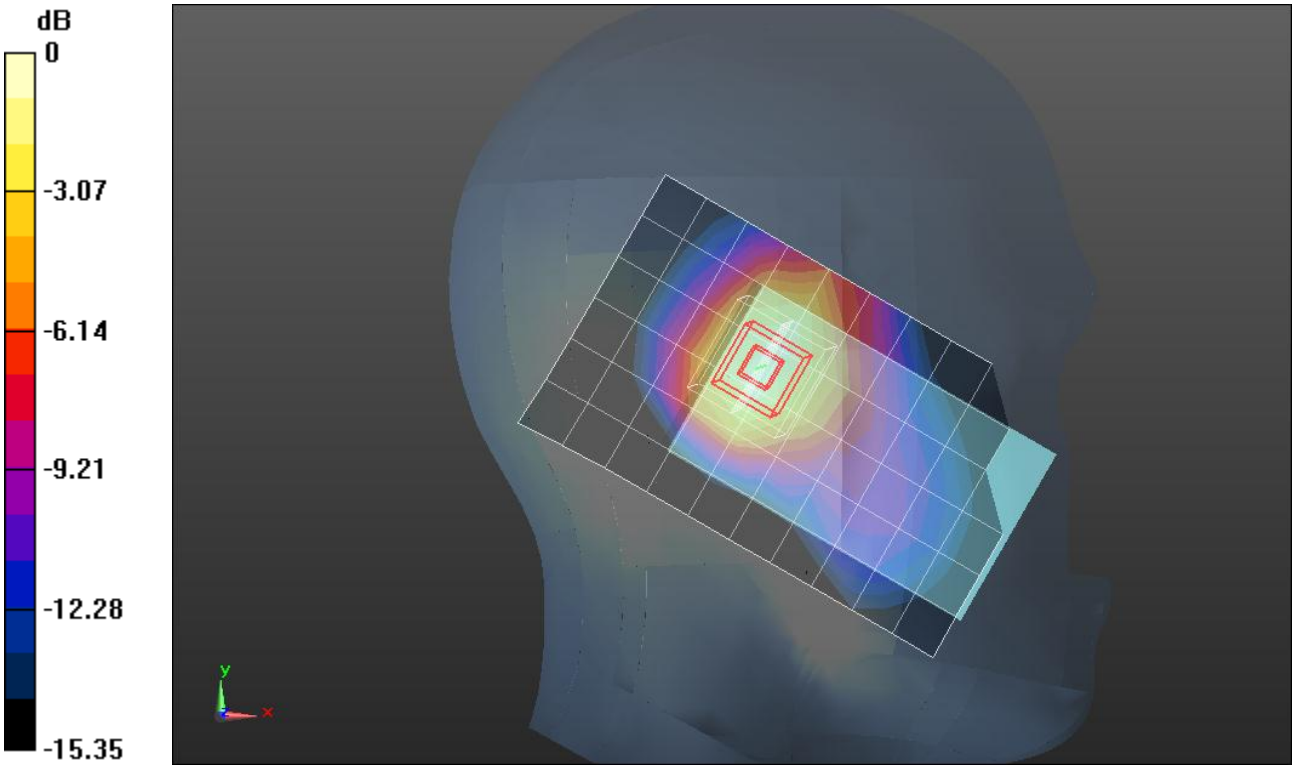
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Tilt/QPSK RB1_49/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.749 mW/g

Left Tilt/QPSK RB1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.439 V/m; Power Drift = -0.0073 dB
Peak SAR (extrapolated) = 0.9900
SAR(1 g) = 0.655 mW/g; SAR(10 g) = 0.389 mW/g
Maximum value of SAR (measured) = 0.813 mW/g



0 dB = 0.810mW/g = -1.83 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

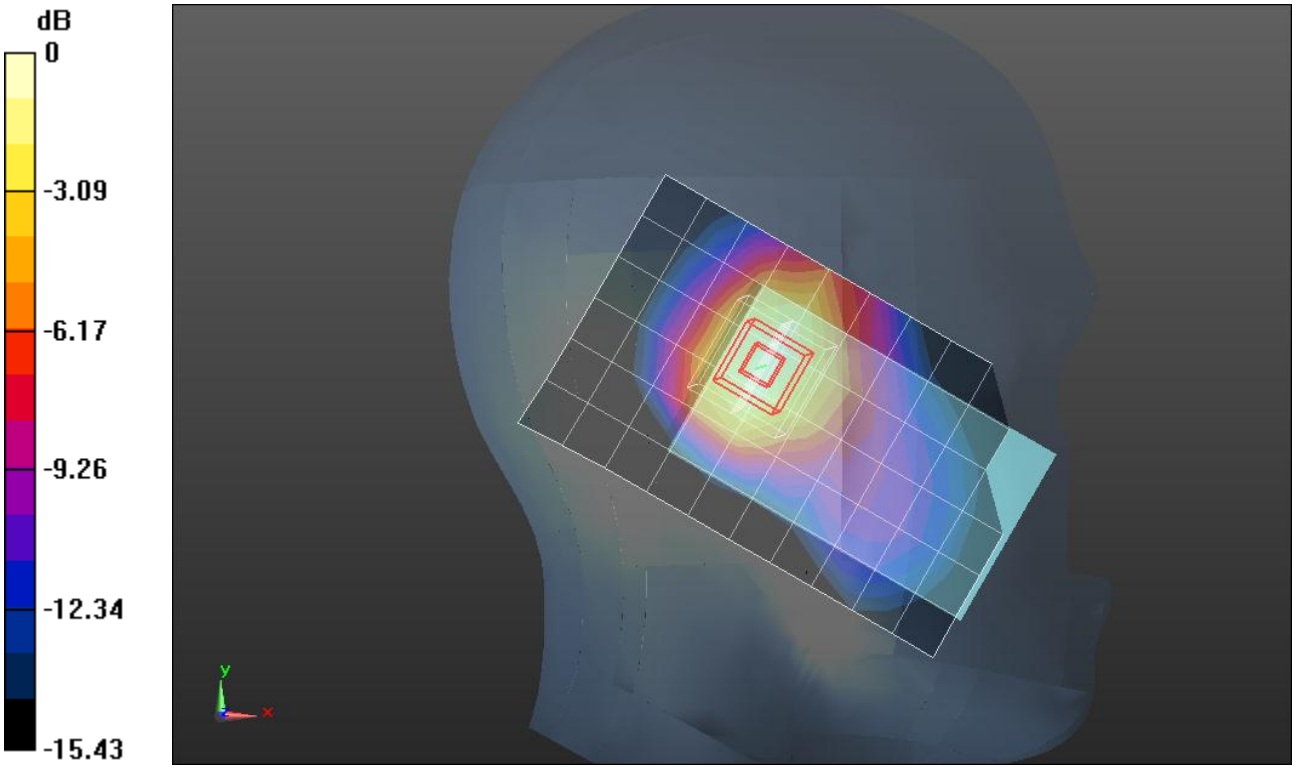
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Tilt/QPSK RB25_12/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.581 mW/g

Left Tilt/QPSK RB25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.524 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.7830
SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.307 mW/g
Maximum value of SAR (measured) = 0.643 mW/g



0 dB = 0.640mW/g = -3.88 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

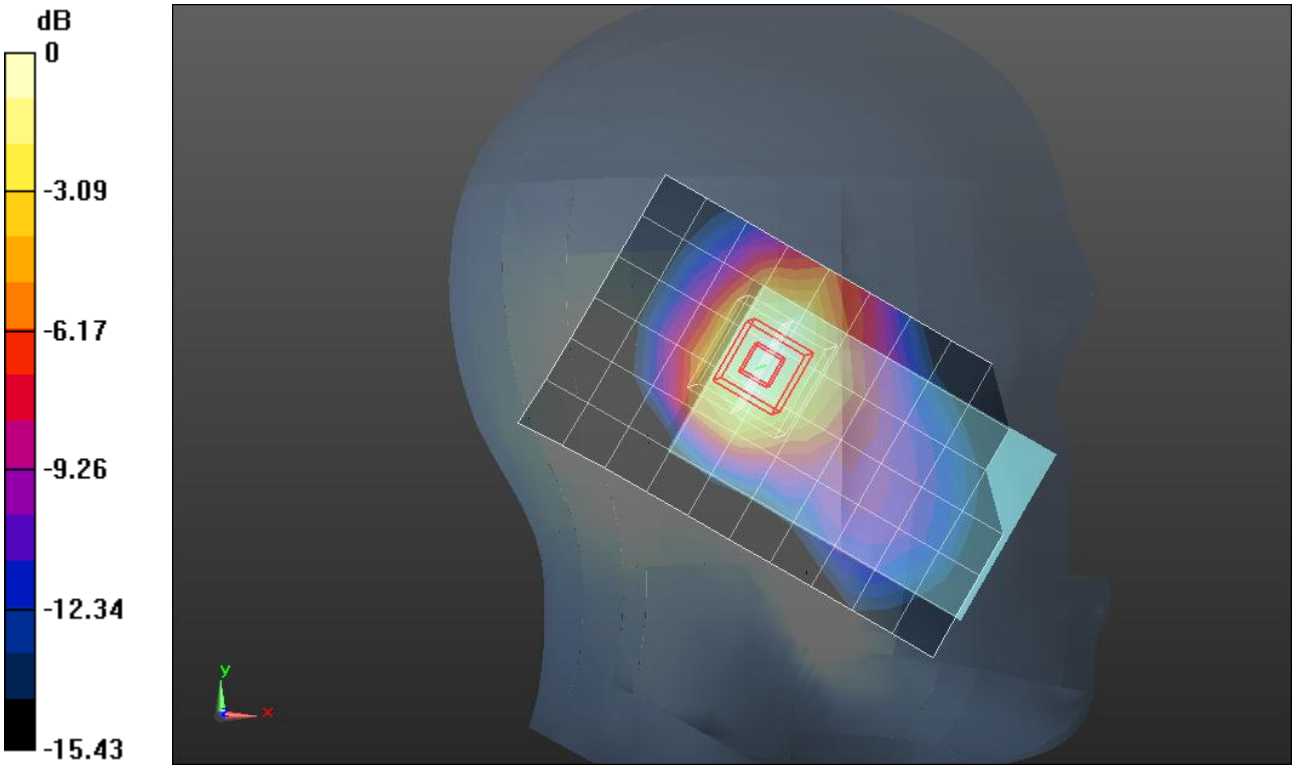
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Tilt/16QAM RB 1_0/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.501 mW/g

Left Tilt/16QAM RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.340 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.6630
SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.262 mW/g
Maximum value of SAR (measured) = 0.545 mW/g



0 dB = 0.540mW/g = -5.35 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

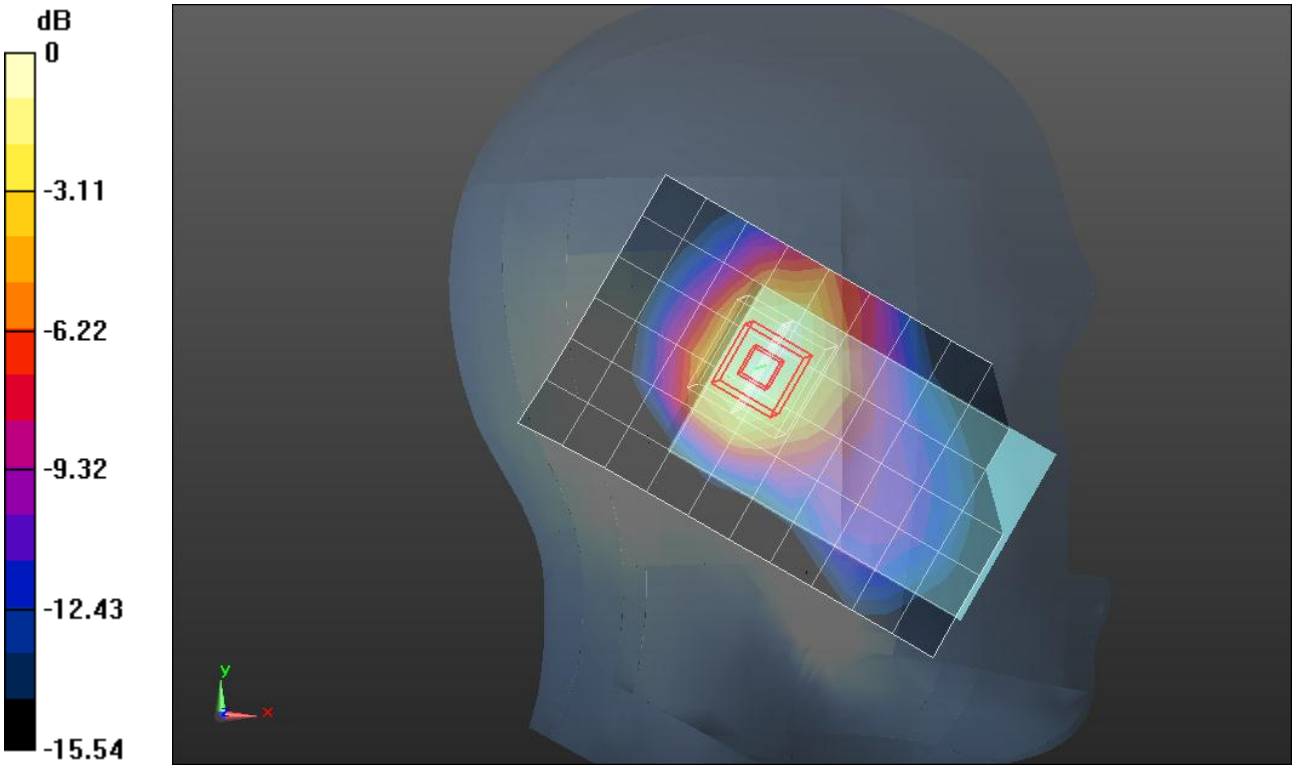
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Tilt/16QAM RB1_49/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.647 mW/g

Left Tilt/16QAM RB1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.856 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.8500
SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.338 mW/g
Maximum value of SAR (measured) = 0.703 mW/g



0 dB = 0.700mW/g = -3.10 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

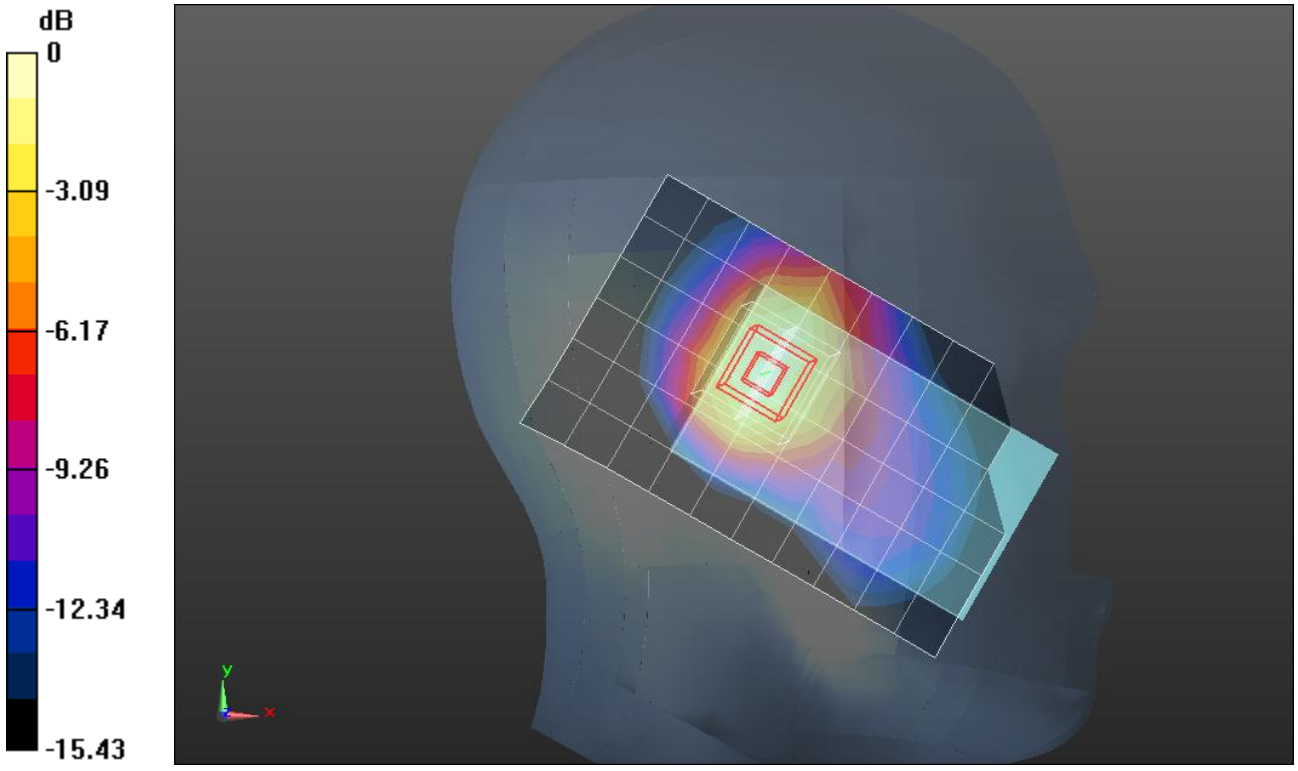
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Left Tilt/16QAM RB25_12/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.487 mW/g

Left Tilt/16QAM RB25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.022 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.6290
SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.244 mW/g
Maximum value of SAR (measured) = 0.515 mW/g



0 dB = 0.520mW/g = -5.68 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

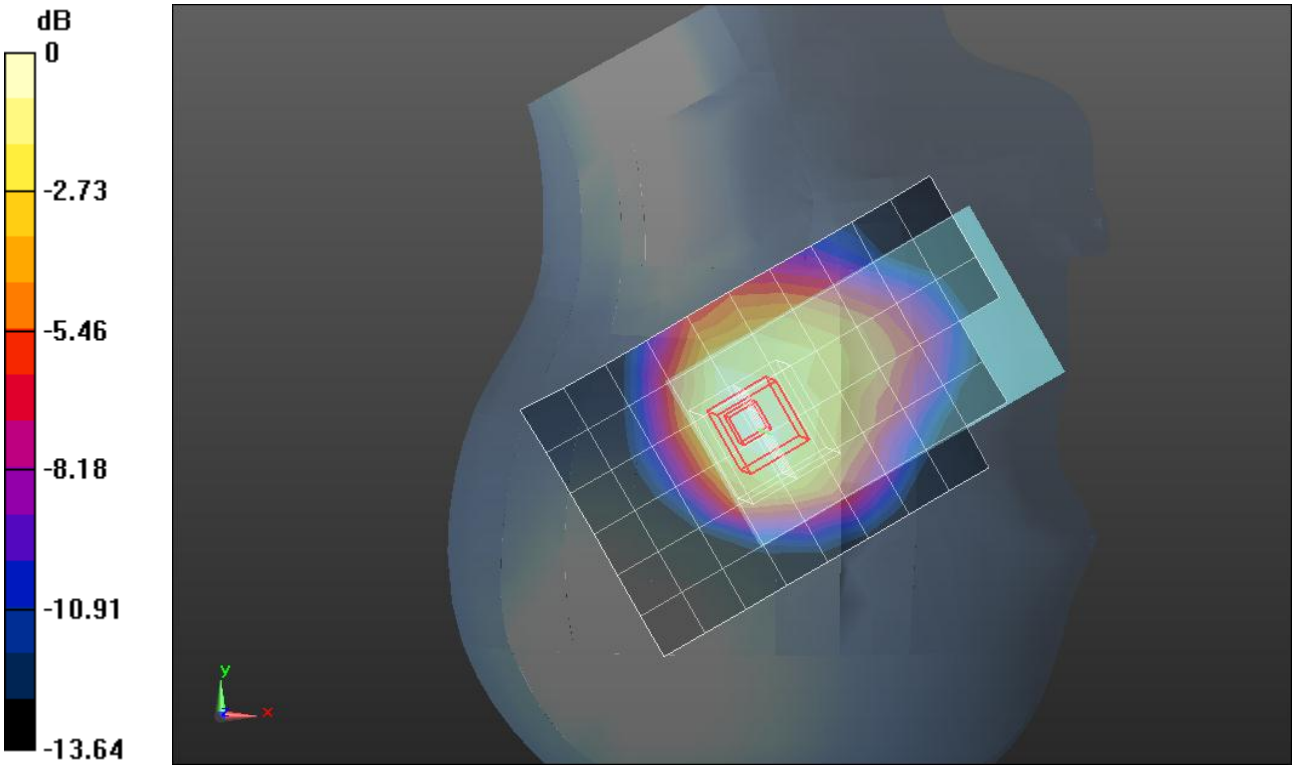
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Touch/QPSK RB 1_0/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.627 mW/g

Right Touch/QPSK RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.622 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.7770
SAR(1 g) = 0.507 mW/g; SAR(10 g) = 0.310 mW/g
Maximum value of SAR (measured) = 0.621 mW/g



0 dB = 0.620mW/g = -4.15 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

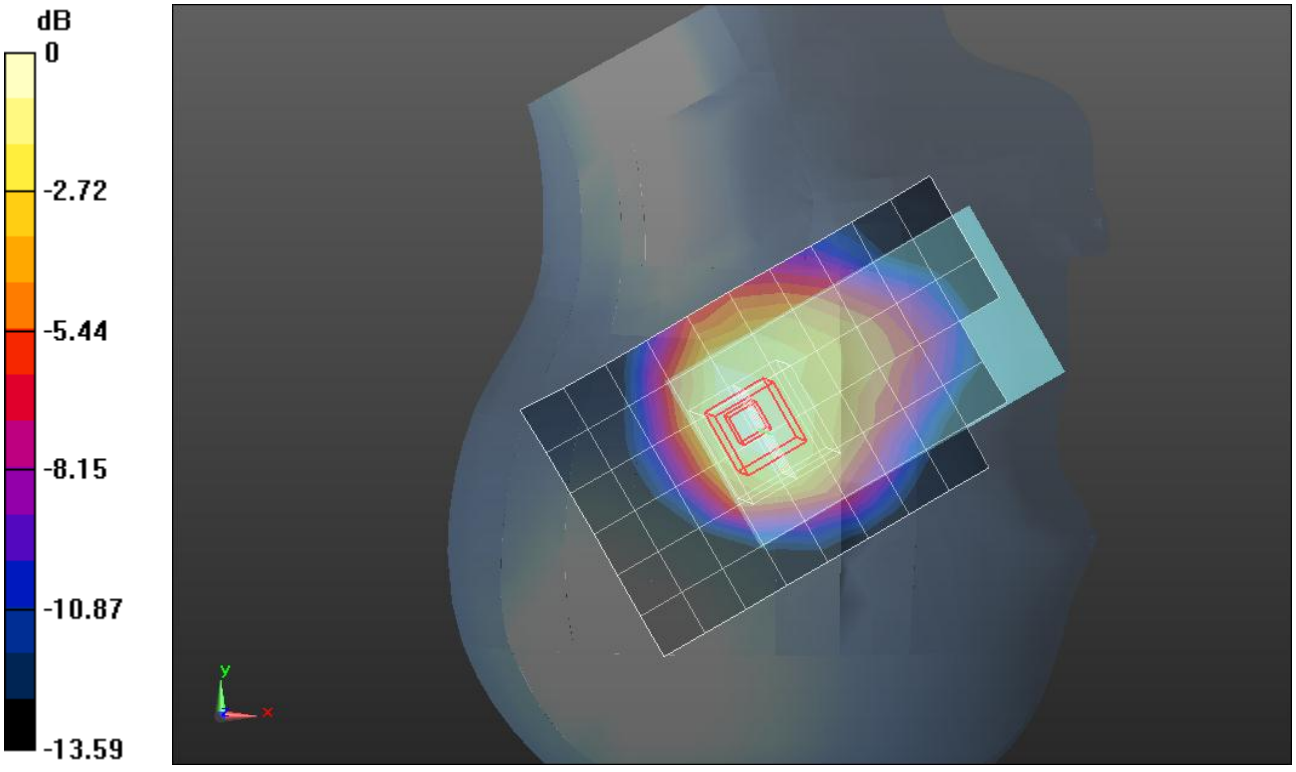
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Touch/QPSK RB 1_49/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.755 mW/g

Right Touch/QPSK RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.644 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.9500
SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.377 mW/g
Maximum value of SAR (measured) = 0.760 mW/g



0 dB = 0.760mW/g = -2.38 dB mW/g

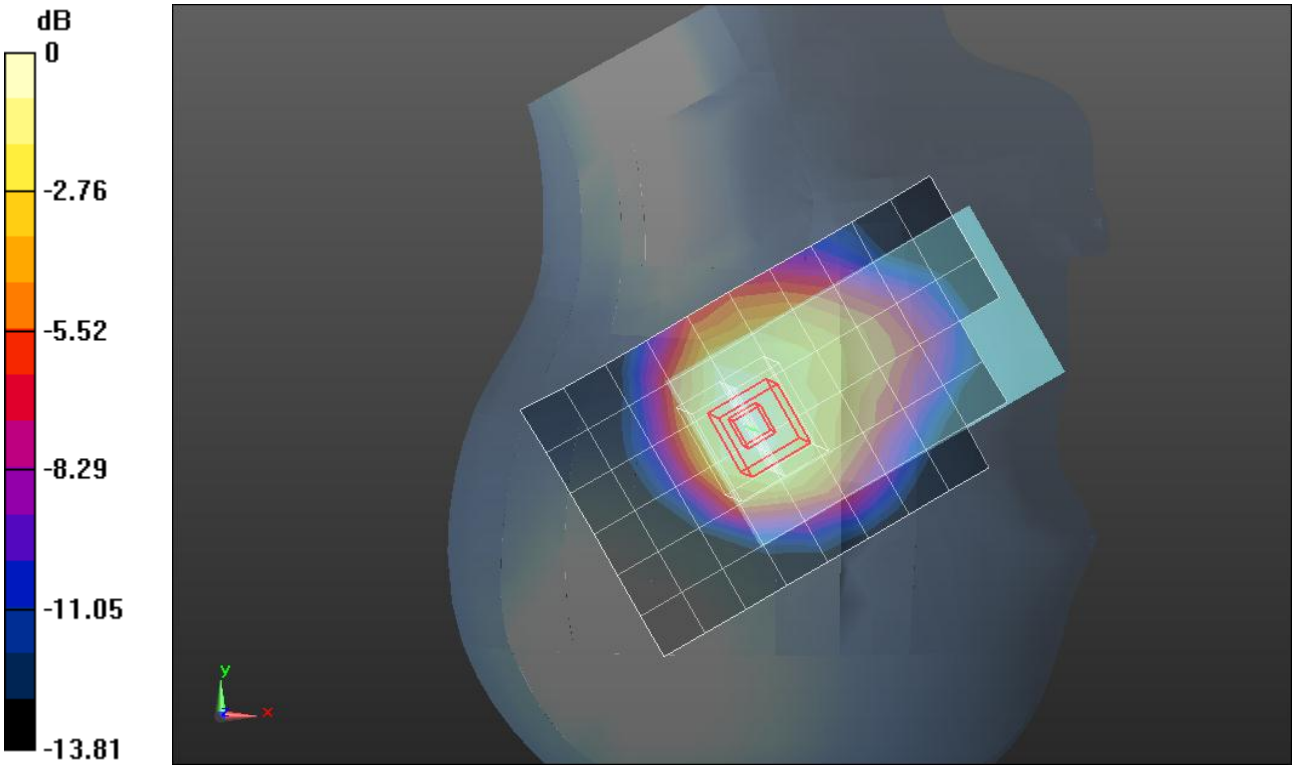
Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Touch/QPSK RB 25_12/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.598 mW/g

Right Touch/QPSK RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.046 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.7610
SAR(1 g) = 0.488 mW/g; SAR(10 g) = 0.297 mW/g
Maximum value of SAR (measured) = 0.614 mW/g



0 dB = 0.610mW/g = -4.29 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

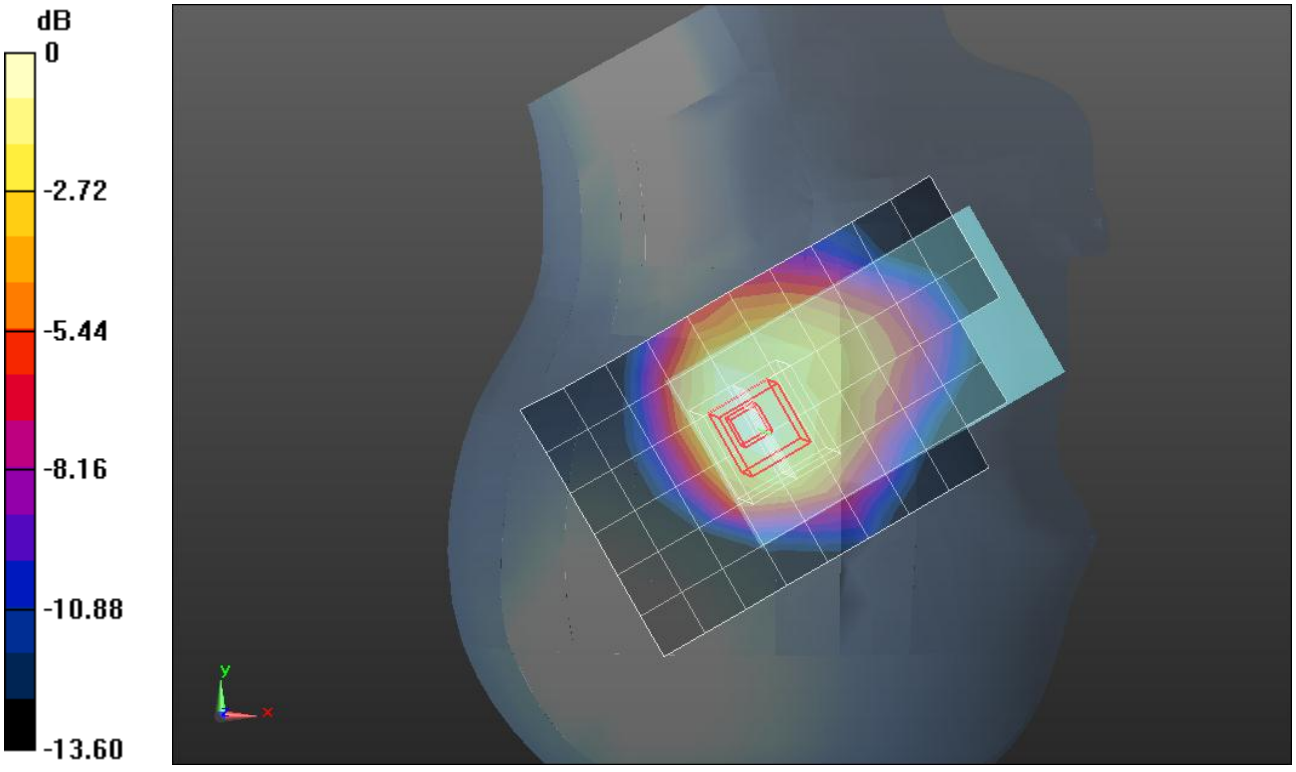
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Touch/16QAM RB 1_0/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.542 mW/g

Right Touch/16QAM RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.921 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.6700
SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.268 mW/g
Maximum value of SAR (measured) = 0.539 mW/g



0 dB = 0.540mW/g = -5.35 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

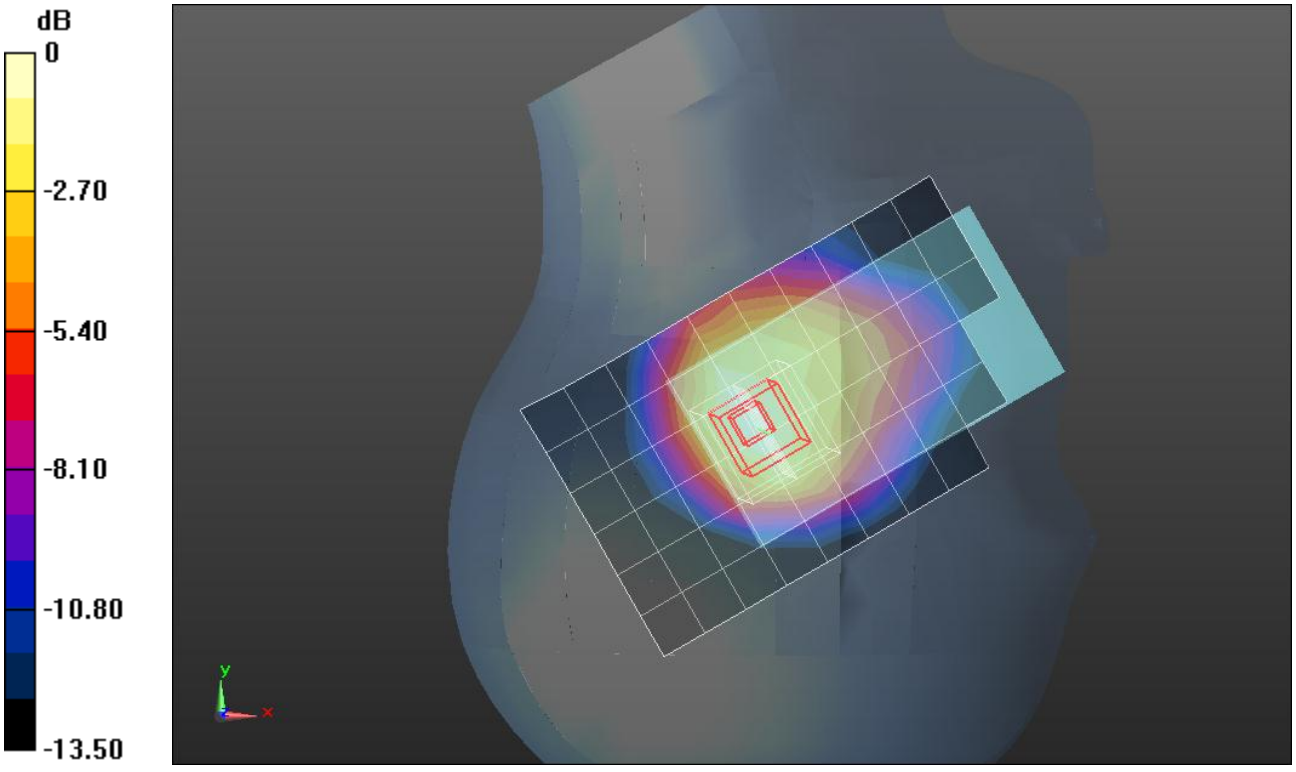
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Touch/16QAM RB 1_49/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.638 mW/g

Right Touch/16QAM RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.756 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.8050
SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.317 mW/g
Maximum value of SAR (measured) = 0.645 mW/g



0 dB = 0.650mW/g = -3.74 dB mW/g

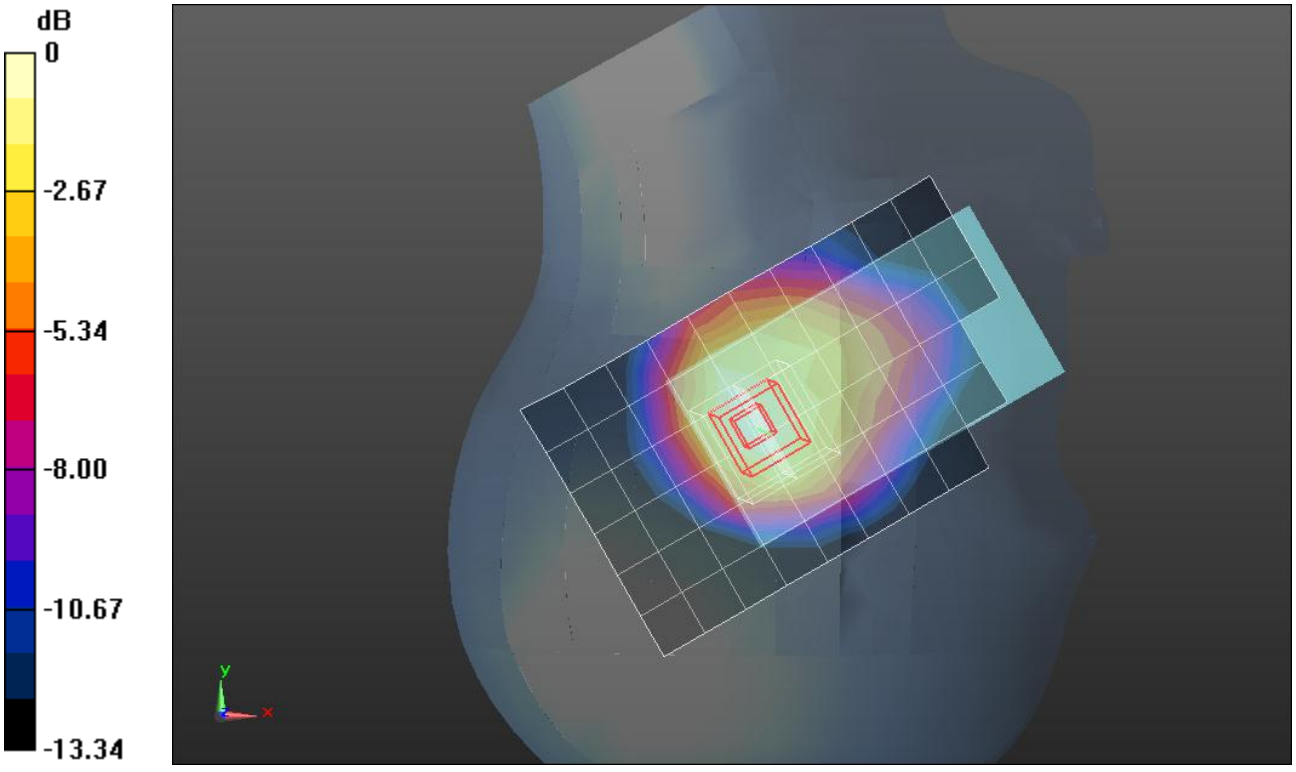
Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Touch/16QAM RB 25_12/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.460 mW/g

Right Touch/16QAM RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.478 V/m; Power Drift = 0.0099 dB
Peak SAR (extrapolated) = 0.5640
SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.225 mW/g
Maximum value of SAR (measured) = 0.457 mW/g



0 dB = 0.460mW/g = -6.74 dB mW/g

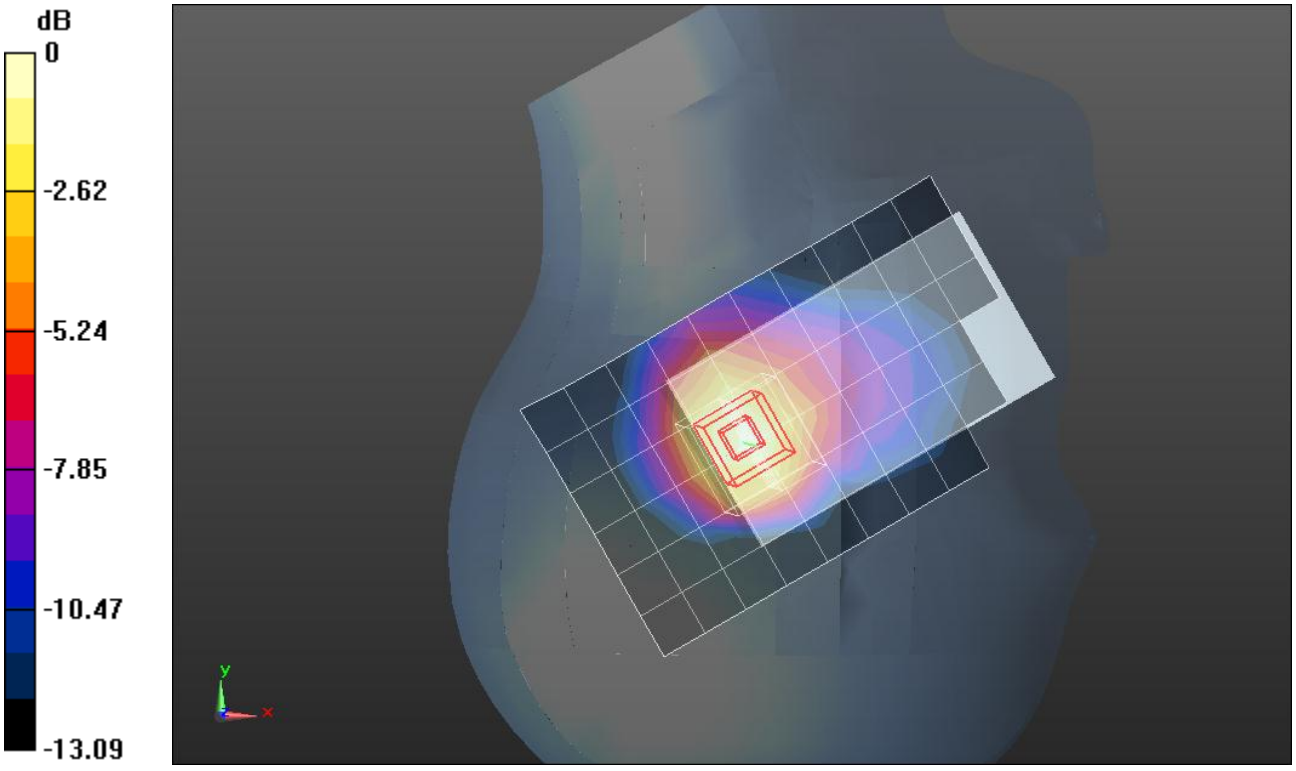
Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Tilt/QPSK RB 1_0/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.502 mW/g

Right Tilt/QPSK RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.249 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.6510
SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.247 mW/g
Maximum value of SAR (measured) = 0.523 mW/g



0 dB = 0.520mW/g = -5.68 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

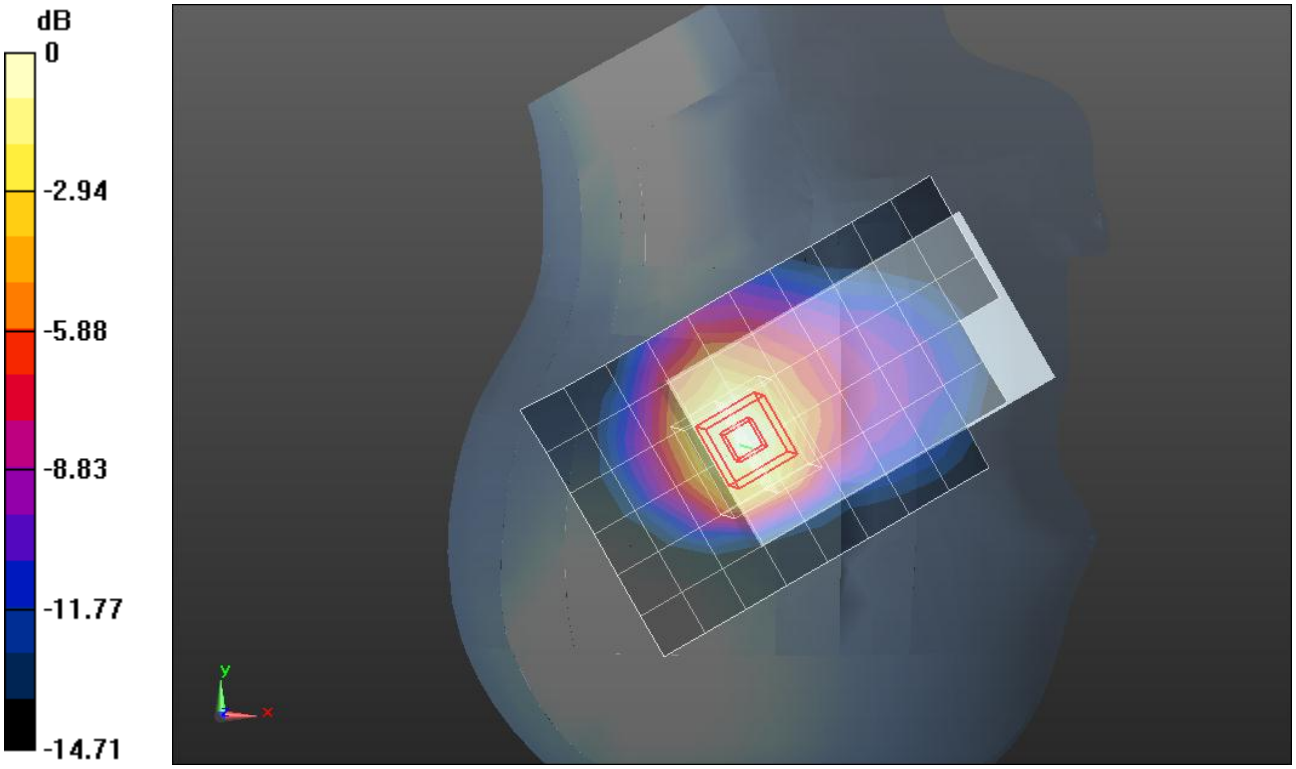
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Tilt/QPSK RB 1_49/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.630 mW/g

Right Tilt/QPSK RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.662 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.8360
SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.315 mW/g
Maximum value of SAR (measured) = 0.663 mW/g



0 dB = 0.660mW/g = -3.61 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

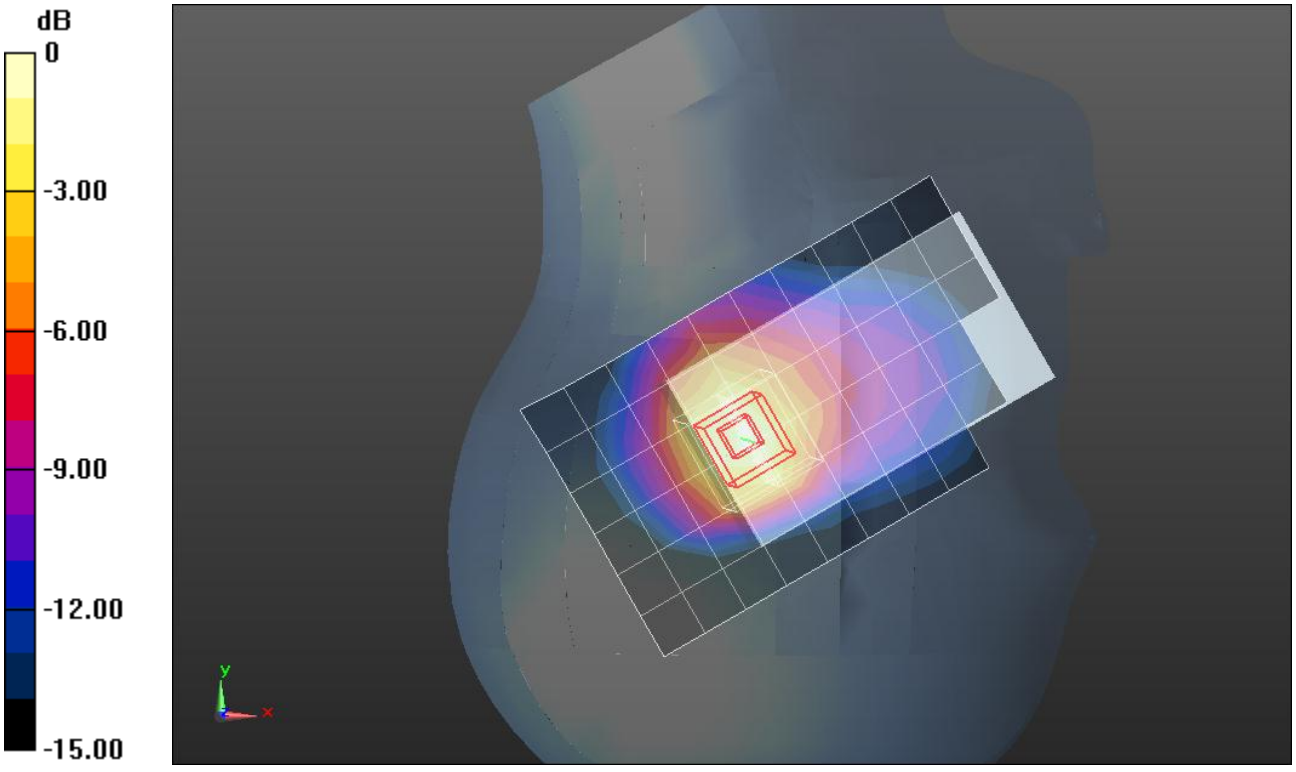
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Tilt/QPSK RB 25_12/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.475 mW/g

Right Tilt/QPSK RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.799 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.6380
SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.237 mW/g
Maximum value of SAR (measured) = 0.514 mW/g



0 dB = 0.510mW/g = -5.85 dB mW/g

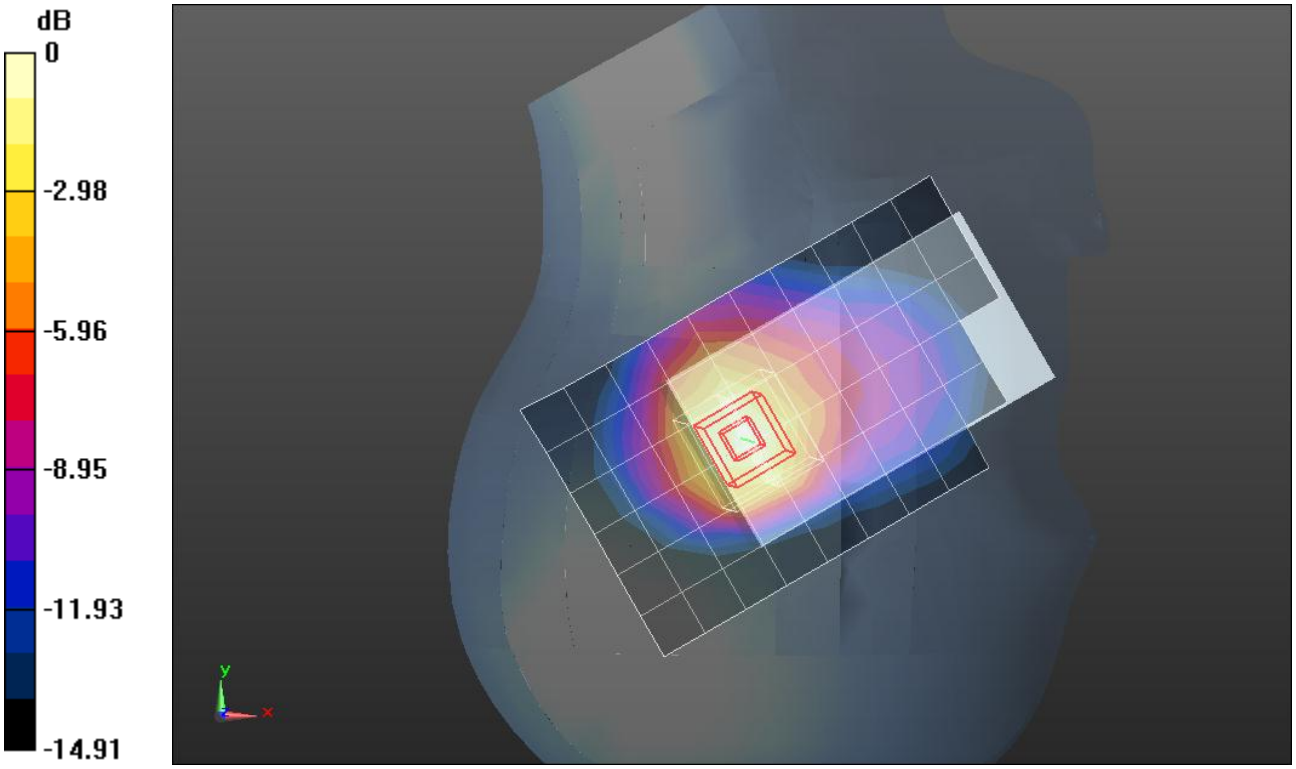
Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Tilt/16QAM RB 1_0/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.419 mW/g

Right Tilt/16QAM RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.685 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.5380
SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.204 mW/g
Maximum value of SAR (measured) = 0.437 mW/g



0 dB = 0.440mW/g = -7.13 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

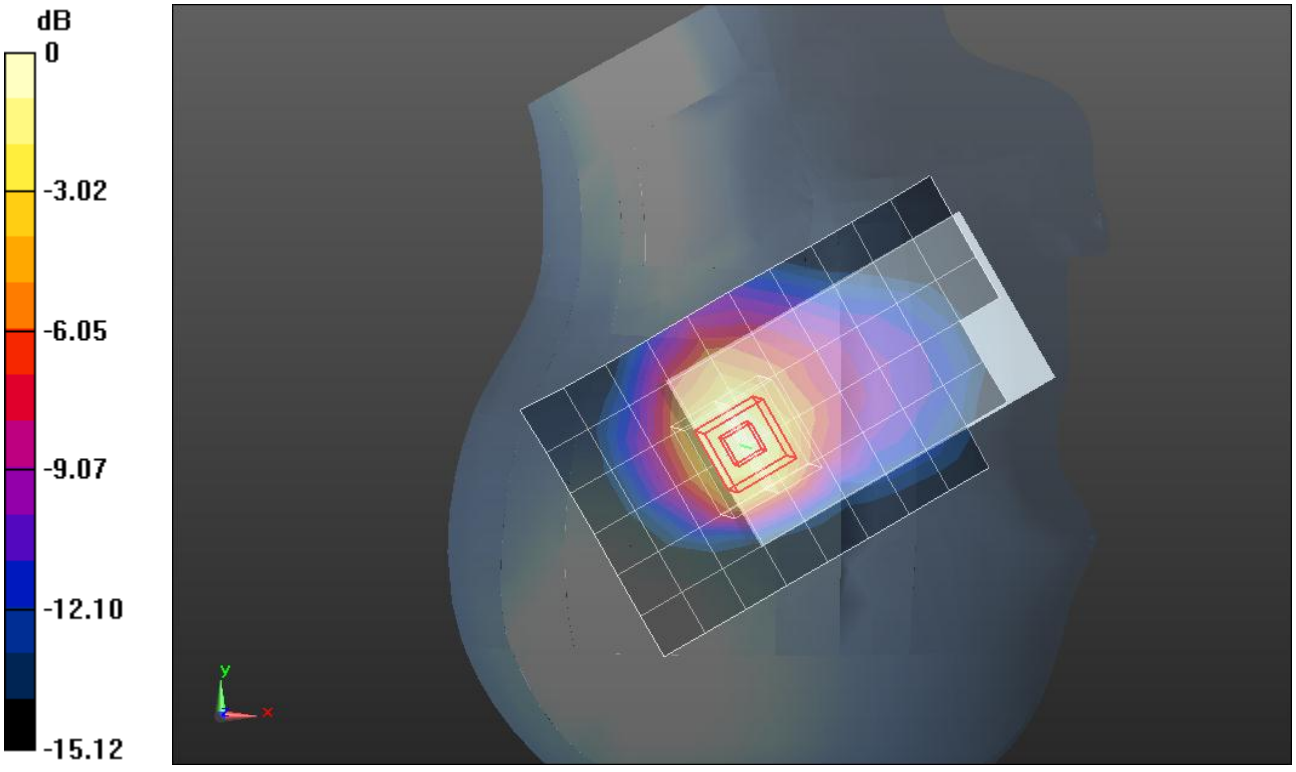
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Tilt/16QAM RB 1_49/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.550 mW/g

Right Tilt/16QAM RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.437 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.8250
SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.313 mW/g
Maximum value of SAR (measured) = 0.655 mW/g



0 dB = 0.660mW/g = -3.61 dB mW/g

Test Laboratory: UL CCS SAR Lab C Date: 6/1/2012

LTE Band2

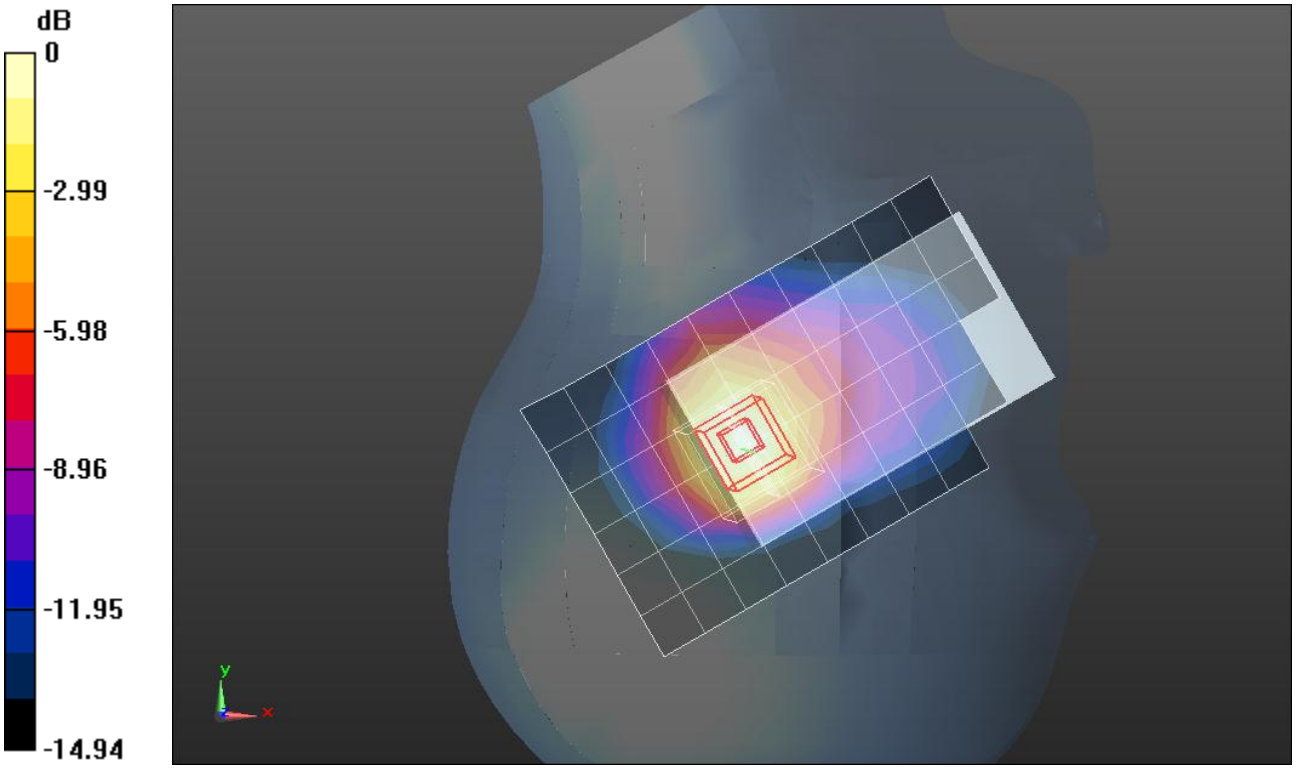
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.388 mho/m; ε_r = 38.603; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1257; Calibrated: 10/25/2011
- Probe: EX3DV4 - SN3773; ConvF(7.51, 7.51, 7.51); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM; Type: QD000P40CD; Serial: 1632

Right Tilt/16QAM RB 25_12/Ch 18900/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.434 mW/g

Right Tilt/16QAM RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.893 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.5620
SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.216 mW/g
Maximum value of SAR (measured) = 0.450 mW/g



0 dB = 0.450mW/g = -6.94 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

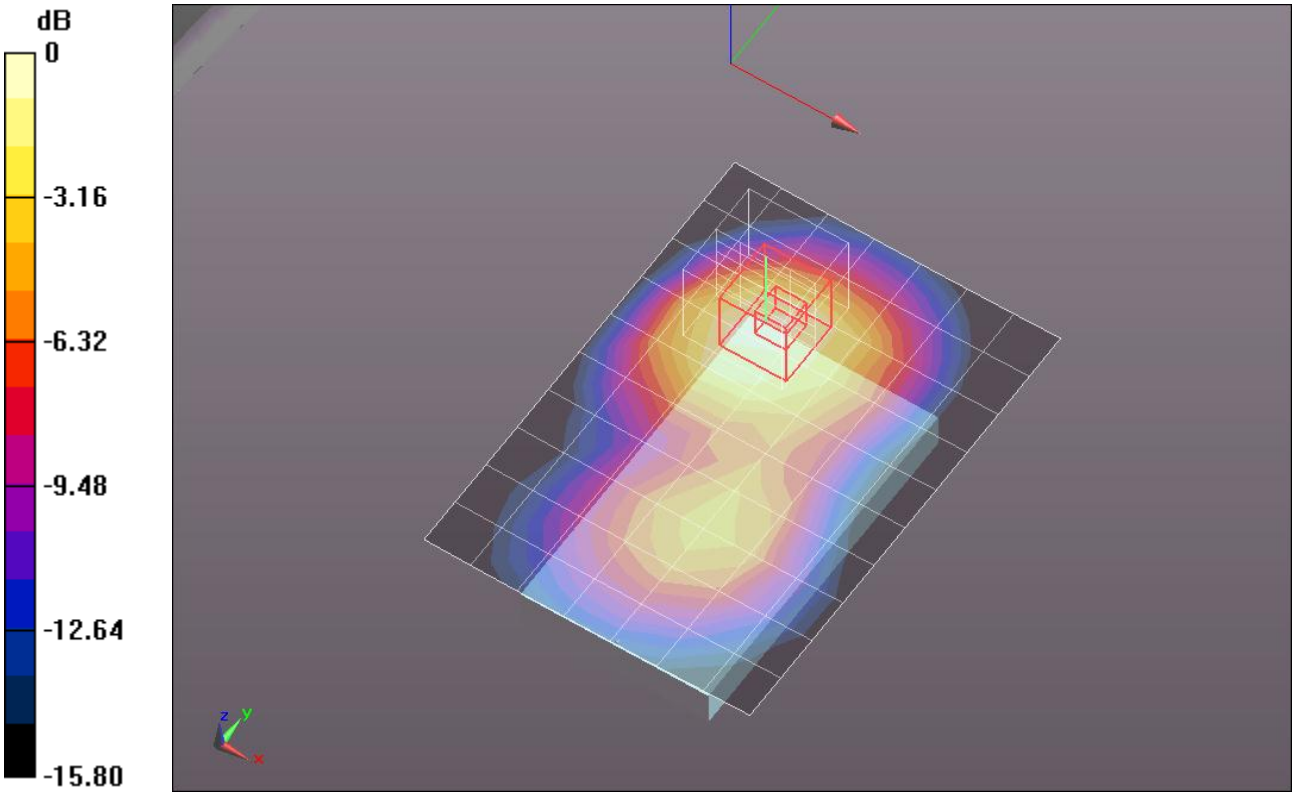
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Rear/QPSK RB 1_0/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.761 mW/g

Rear/QPSK RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.669 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.1390
SAR(1 g) = 0.674 mW/g; SAR(10 g) = 0.393 mW/g
Maximum value of SAR (measured) = 0.866 mW/g



0 dB = 0.870mW/g = -1.21 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

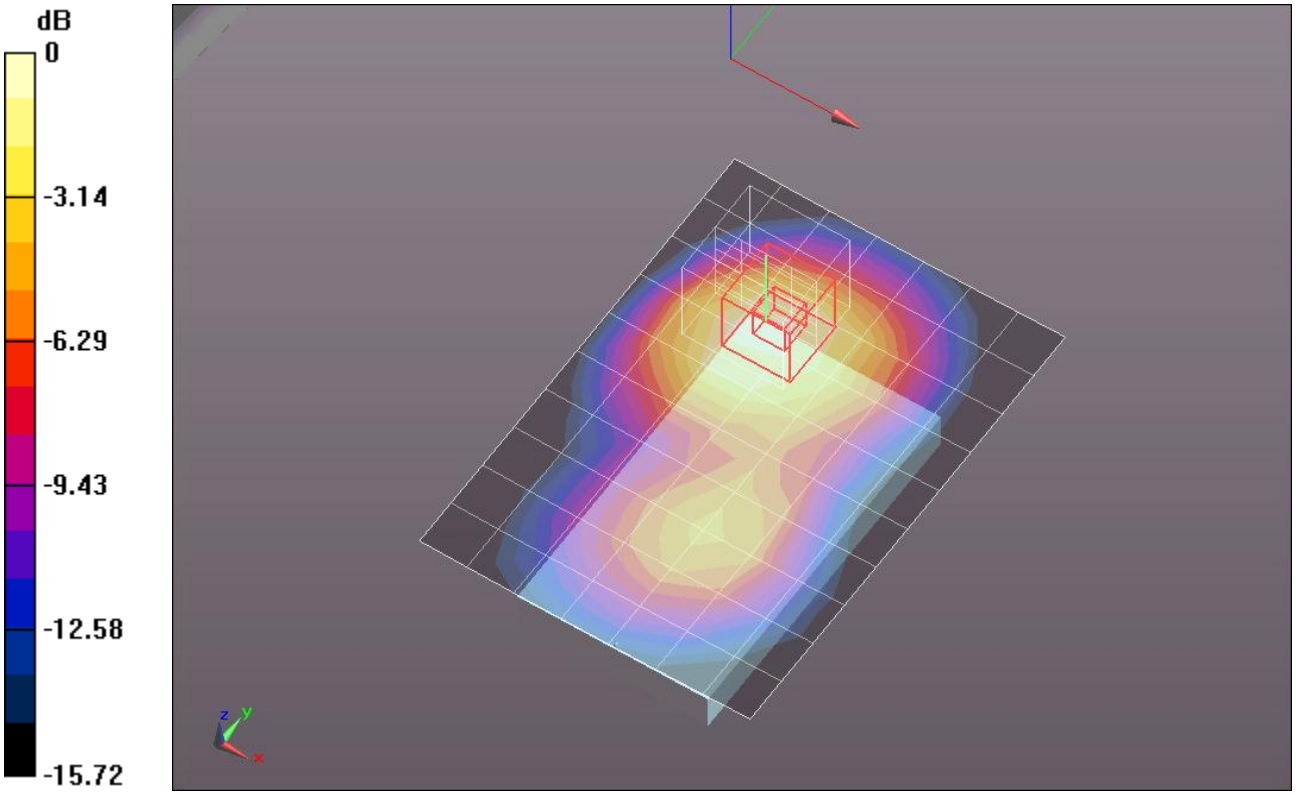
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Rear/QPSK_RB 1_49/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.846 mW/g

Rear/QPSK_RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.854 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.2940
SAR(1 g) = 0.761 mW/g; SAR(10 g) = 0.447 mW/g
Maximum value of SAR (measured) = 0.985 mW/g



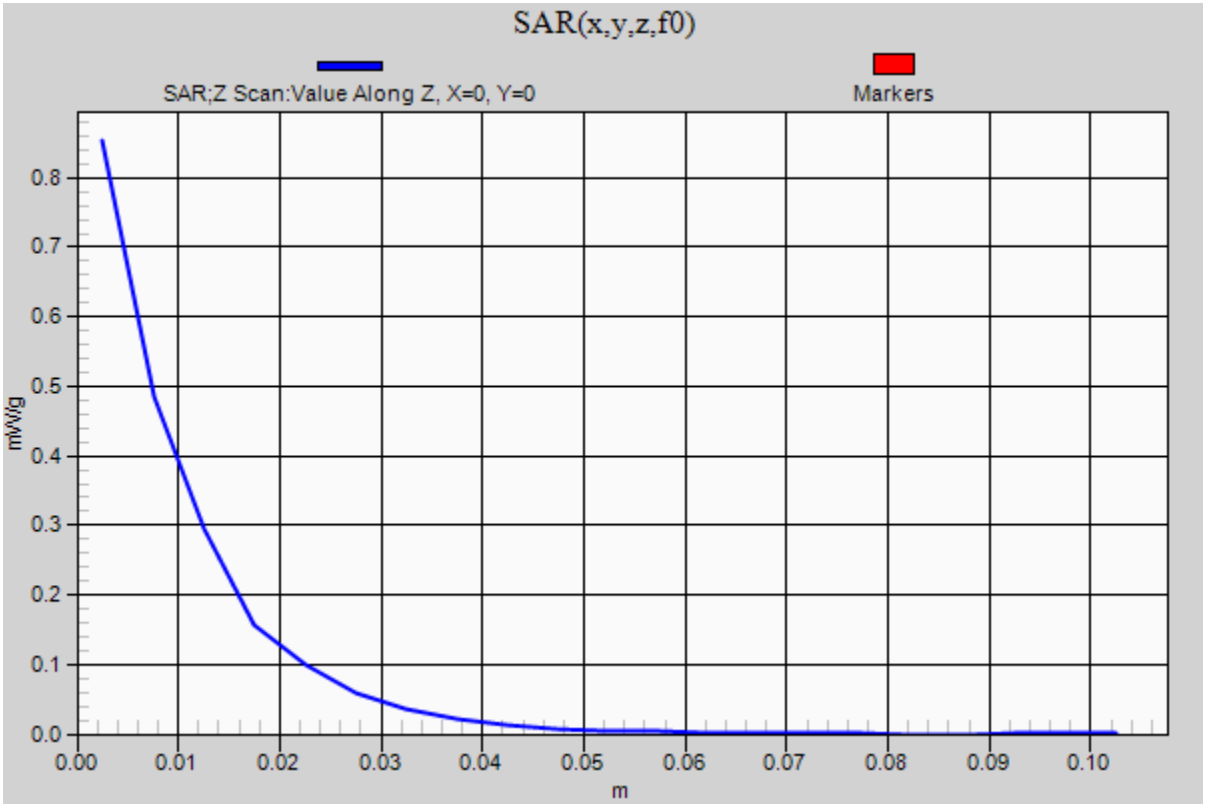
0 dB = 0.980mW/g = -0.18 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

Frequency: 1880 MHz; Duty Cycle: 1:1

Rear/QPSK_RB 1_49/Ch 18900/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.853 mW/g



Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

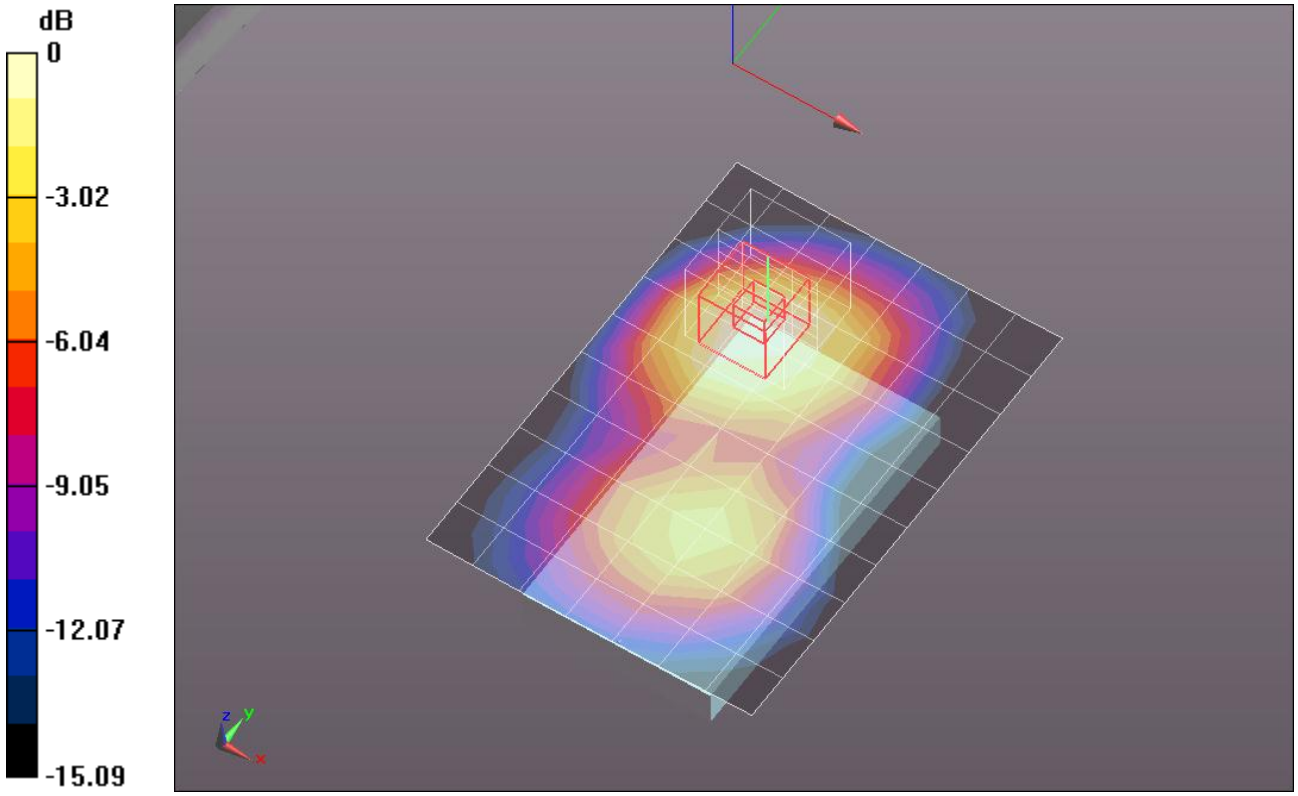
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Rear/w_Headset/QPSK_RB 1_49/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.741 mW/g

Rear/w_Headset/QPSK_RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.142 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.0510
SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.358 mW/g
Maximum value of SAR (measured) = 0.769 mW/g



0 dB = 0.770mW/g = -2.27 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

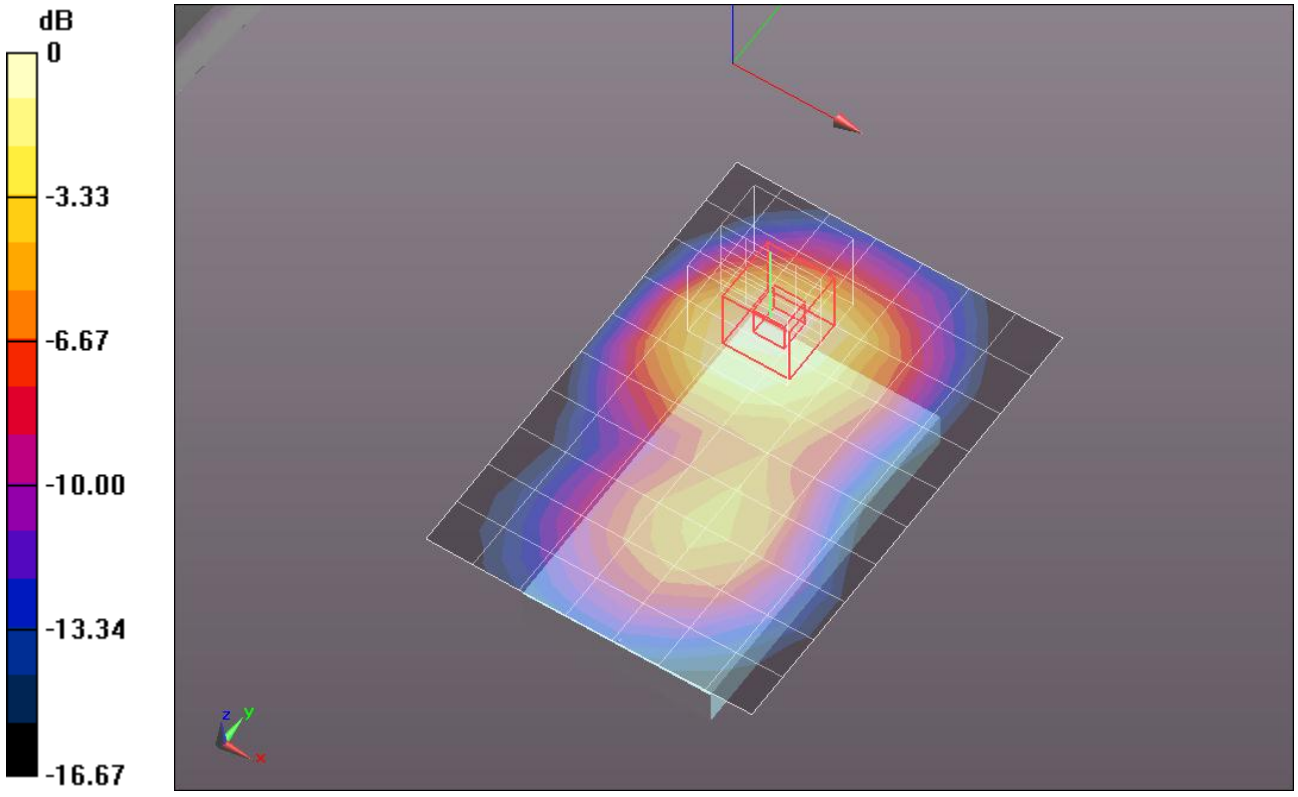
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Rear/QPSK RB 25_12/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.655 mW/g

Rear/QPSK RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.857 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.9850
SAR(1 g) = 0.581 mW/g; SAR(10 g) = 0.341 mW/g
Maximum value of SAR (measured) = 0.754 mW/g



0 dB = 0.750mW/g = -2.50 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

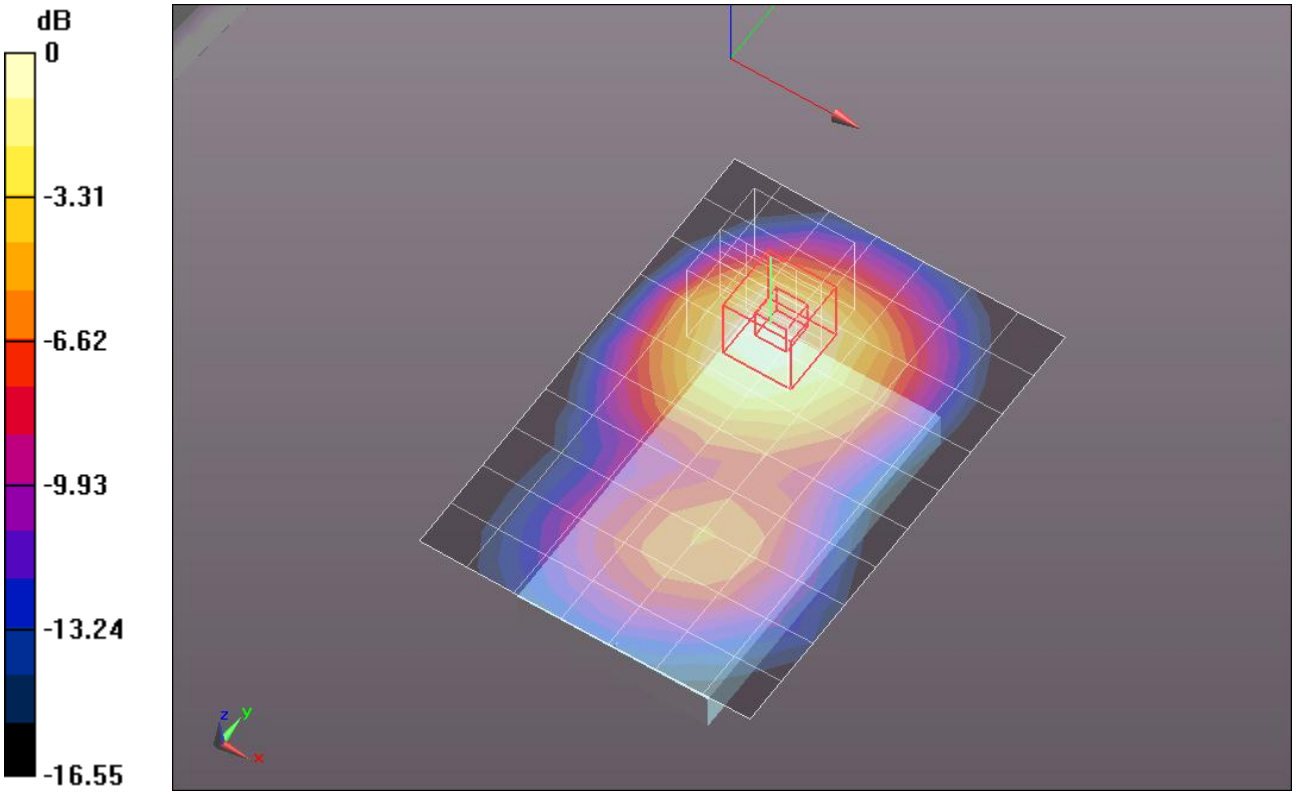
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Rear/16QAM RB 1_0/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.717 mW/g

Rear/16QAM RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.866 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.0550
SAR(1 g) = 0.631 mW/g; SAR(10 g) = 0.380 mW/g
Maximum value of SAR (measured) = 0.808 mW/g



0 dB = 0.810mW/g = -1.83 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

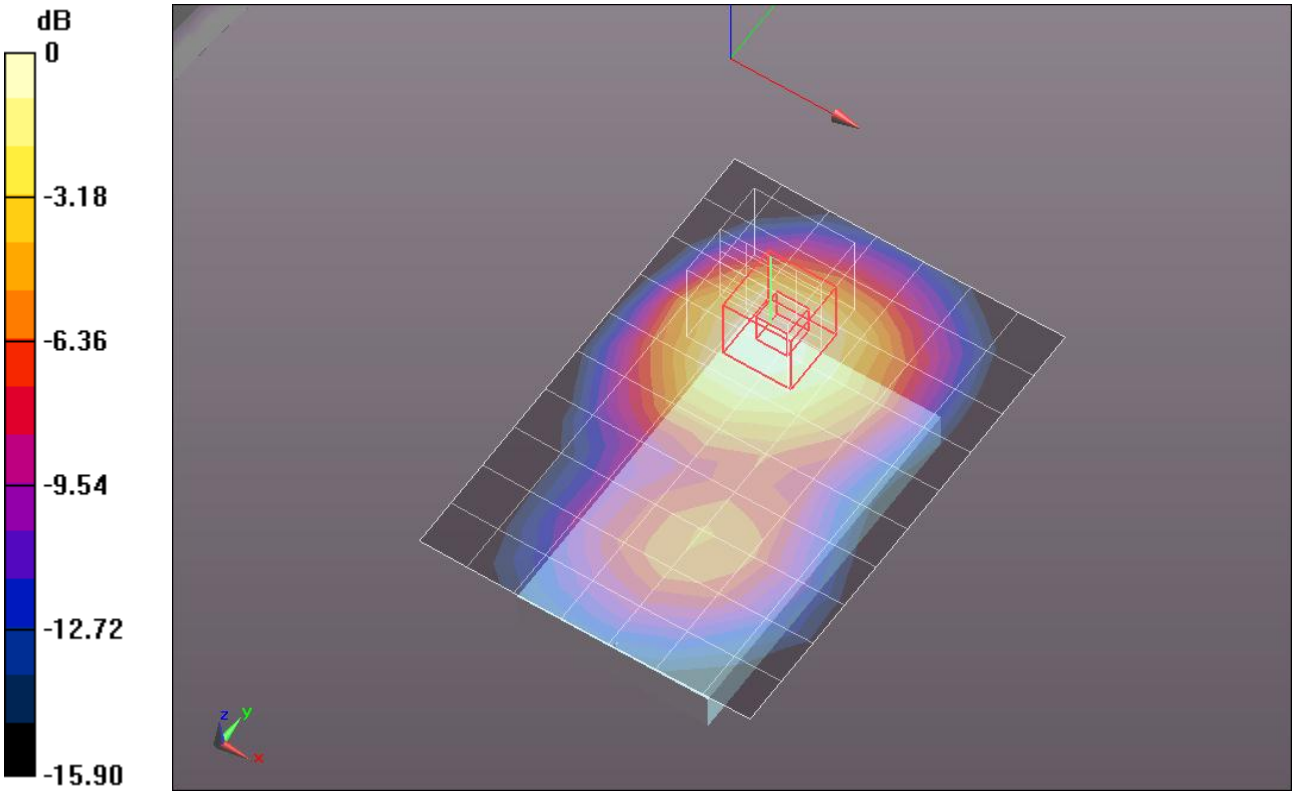
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Rear/16QAM_RB 1_49/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.858 mW/g

Rear/16QAM_RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.857 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.2370
SAR(1 g) = 0.739 mW/g; SAR(10 g) = 0.449 mW/g
Maximum value of SAR (measured) = 0.945 mW/g



0 dB = 0.940mW/g = -0.54 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

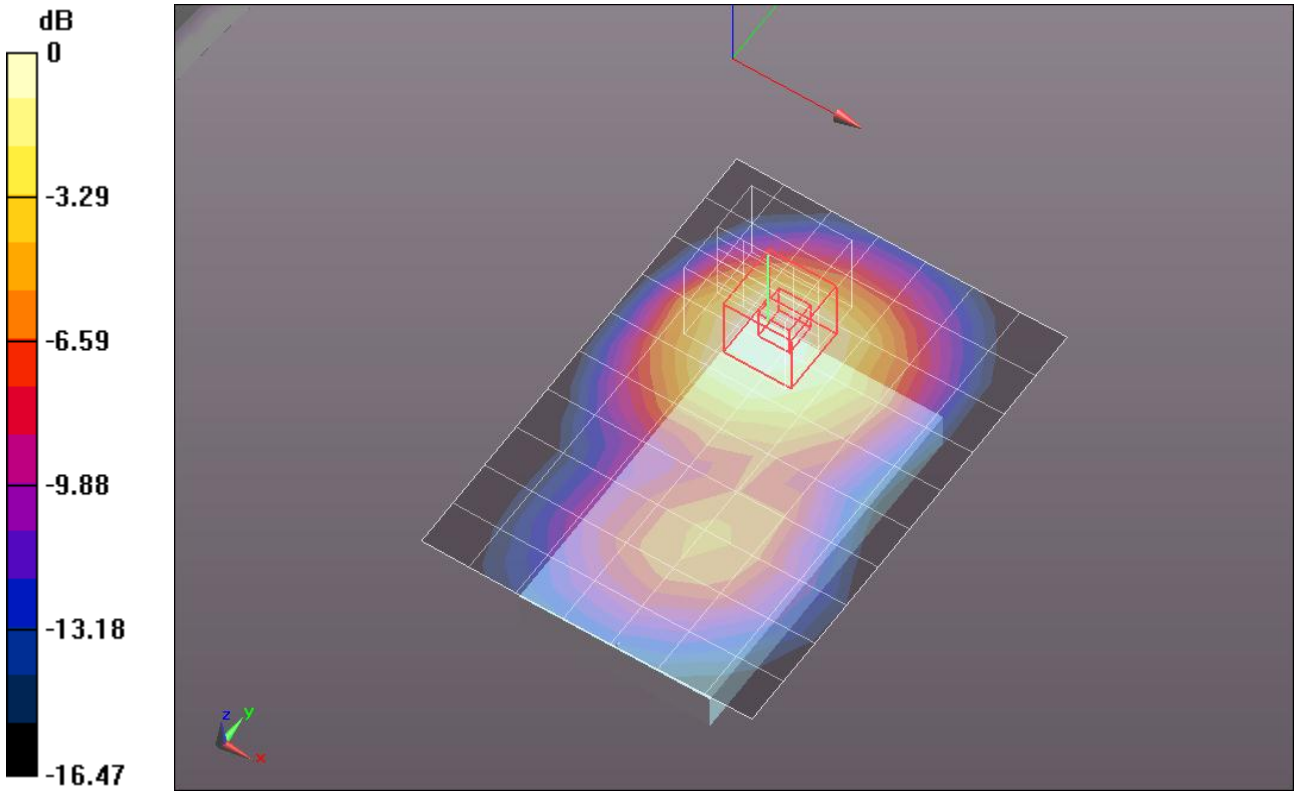
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Rear/16QAM RB 25_12/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.588 mW/g

Rear/16QAM RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.038 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.8730
SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.316 mW/g
Maximum value of SAR (measured) = 0.663 mW/g



0 dB = 0.660mW/g = -3.61 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

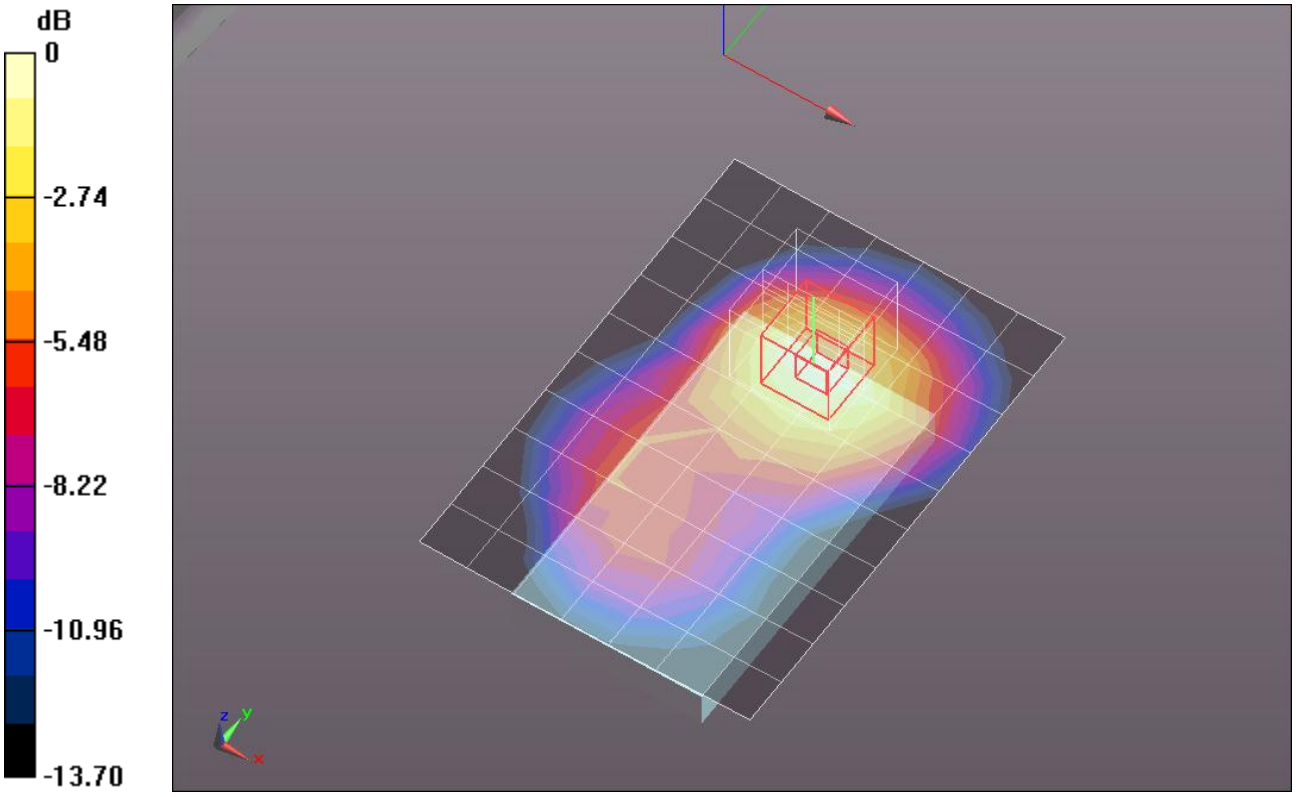
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/QPSK_RB 1_0/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.603 mW/g

Front/QPSK_RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.871 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.7590
SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.302 mW/g
Maximum value of SAR (measured) = 0.604 mW/g



0 dB = 0.600mW/g = -4.44 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

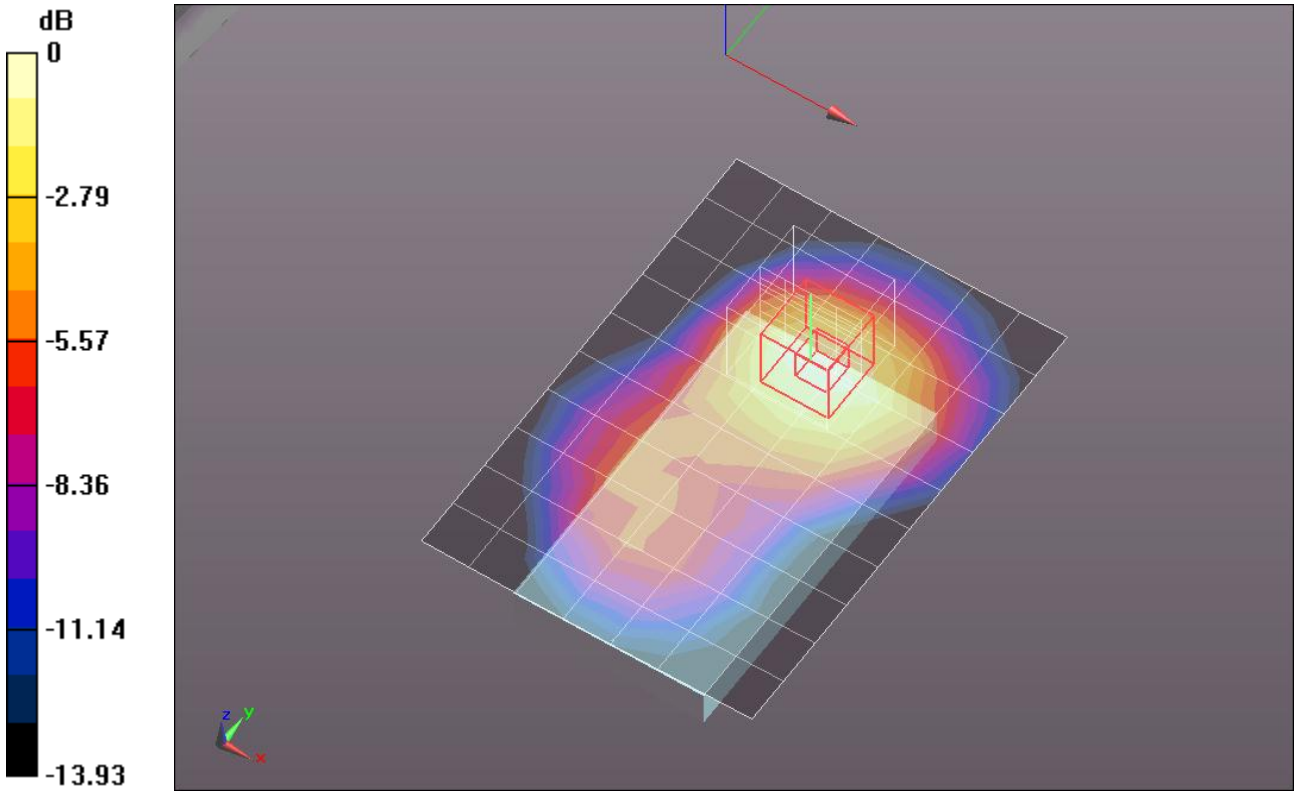
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/QPSK RB 1_49/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.700 mW/g

Front/QPSK RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.786 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.8920
SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.356 mW/g
Maximum value of SAR (measured) = 0.708 mW/g



0 dB = 0.710mW/g = -2.97 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

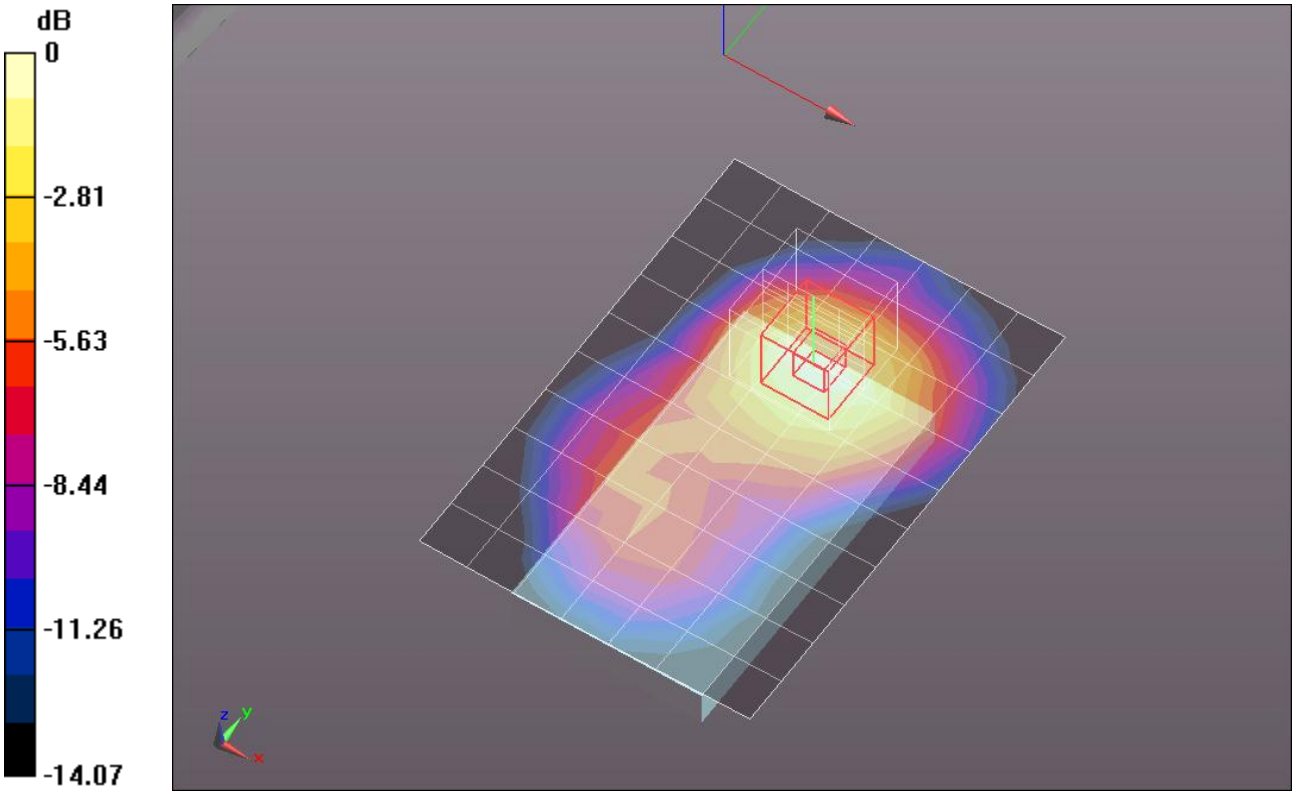
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/QPSK RB 25_12/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.559 mW/g

Front/QPSK RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.257 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.7120
SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.281 mW/g
Maximum value of SAR (measured) = 0.566 mW/g



0 dB = 0.570mW/g = -4.88 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

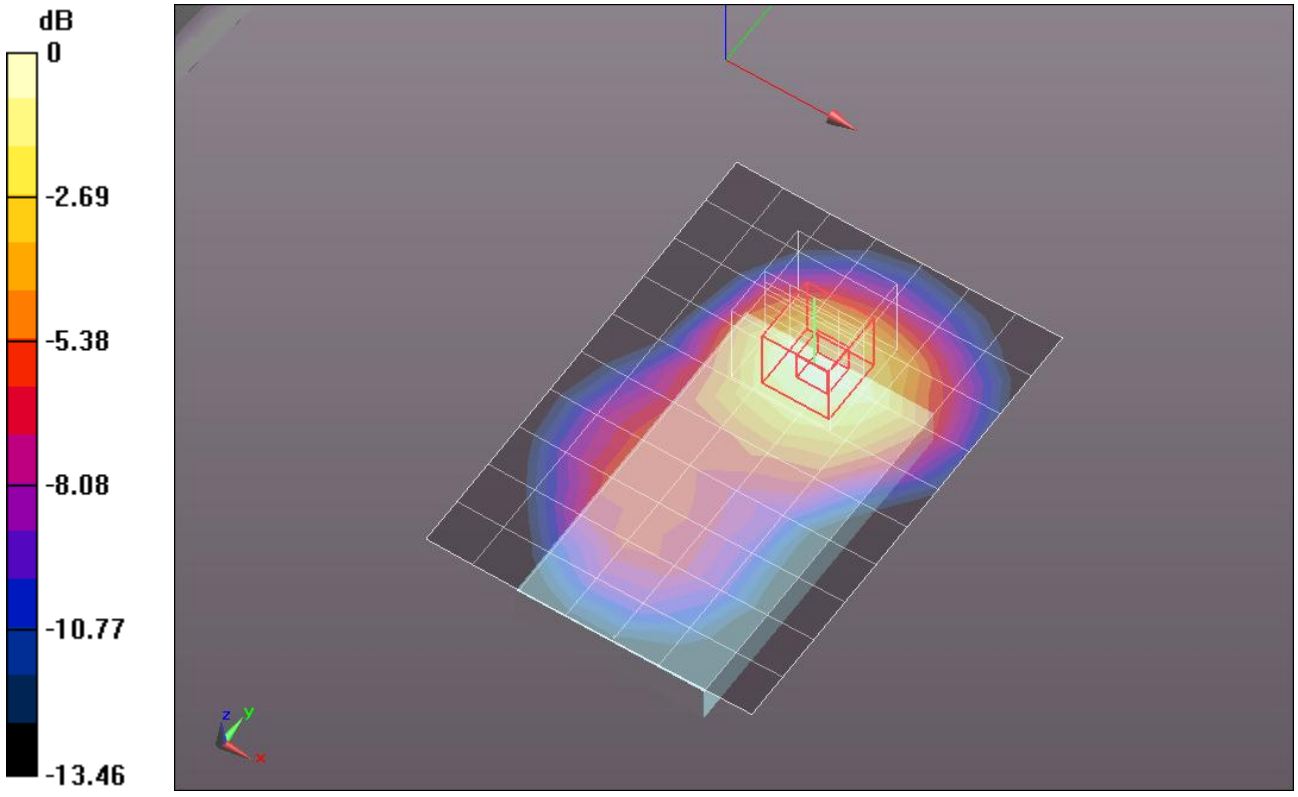
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/16QAM RB 1_0/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.498 mW/g

Front/16QAM RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.287 V/m; Power Drift = -0.0043 dB
Peak SAR (extrapolated) = 0.6340
SAR(1 g) = 0.412 mW/g; SAR(10 g) = 0.253 mW/g
Maximum value of SAR (measured) = 0.506 mW/g



0 dB = 0.510mW/g = -5.85 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

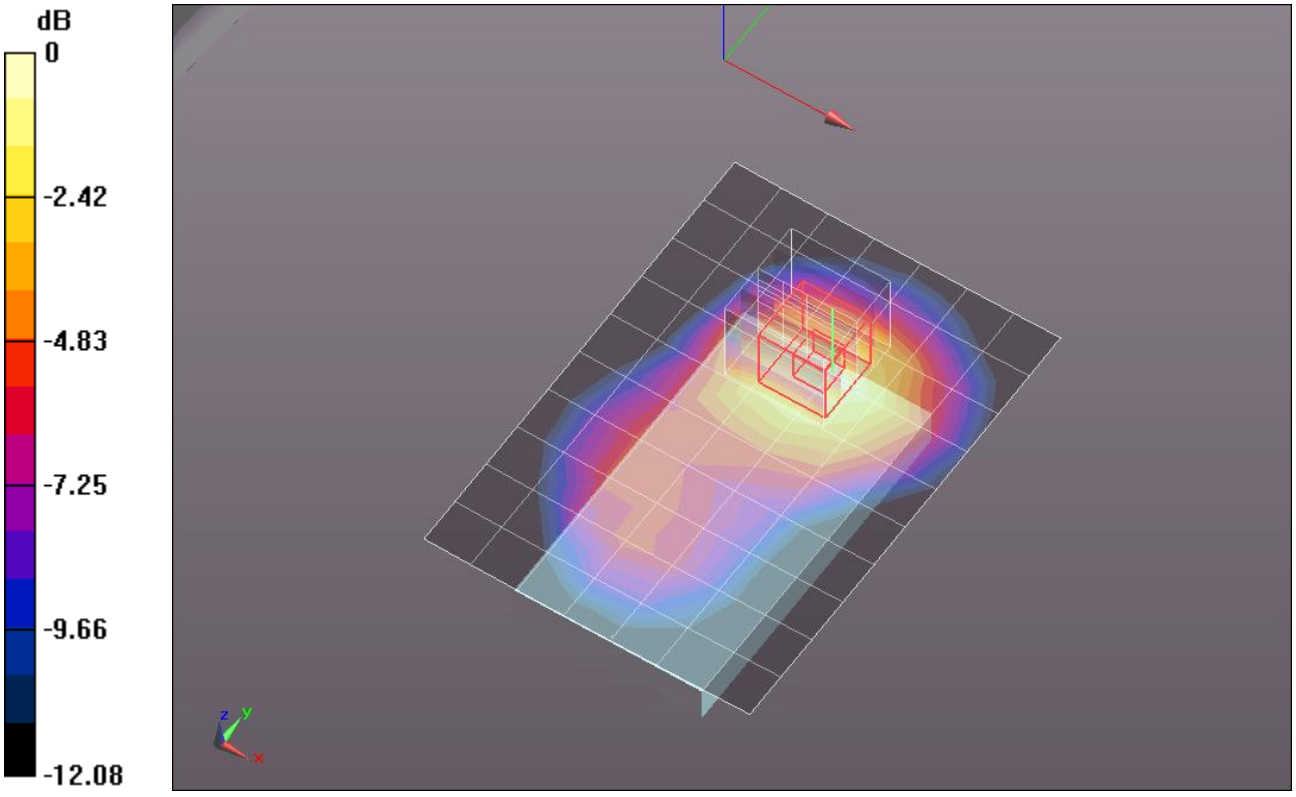
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/16QAM RB 1_49/Ch 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.608 mW/g

Front/16QAM RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.198 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.7770
SAR(1 g) = 0.504 mW/g; SAR(10 g) = 0.309 mW/g
Maximum value of SAR (measured) = 0.615 mW/g



0 dB = 0.610mW/g = -4.29 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

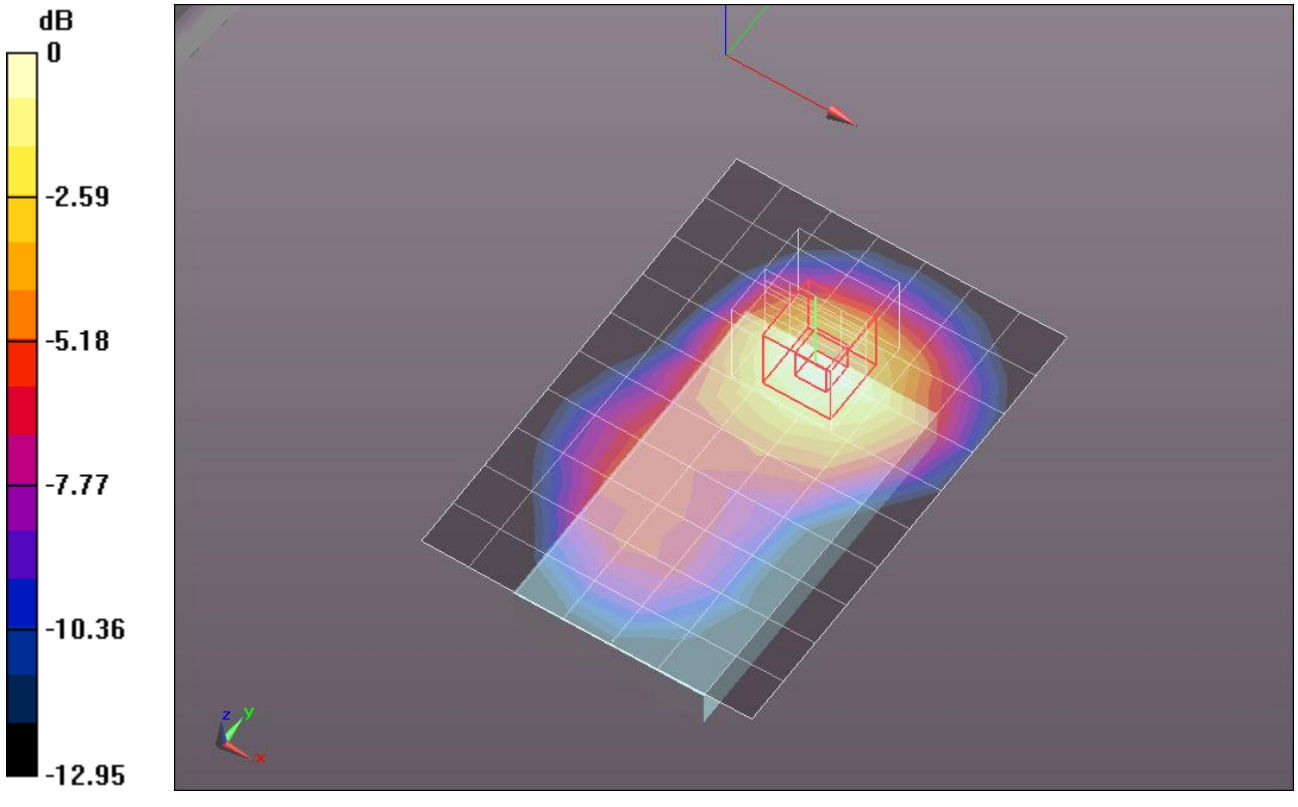
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Front/16QAM RB 25_12/CH 18900/Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.440 mW/g

Front/16QAM RB 25_12/CH 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.215 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.5540
SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.216 mW/g
Maximum value of SAR (measured) = 0.445 mW/g



0 dB = 0.450mW/g = -6.94 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

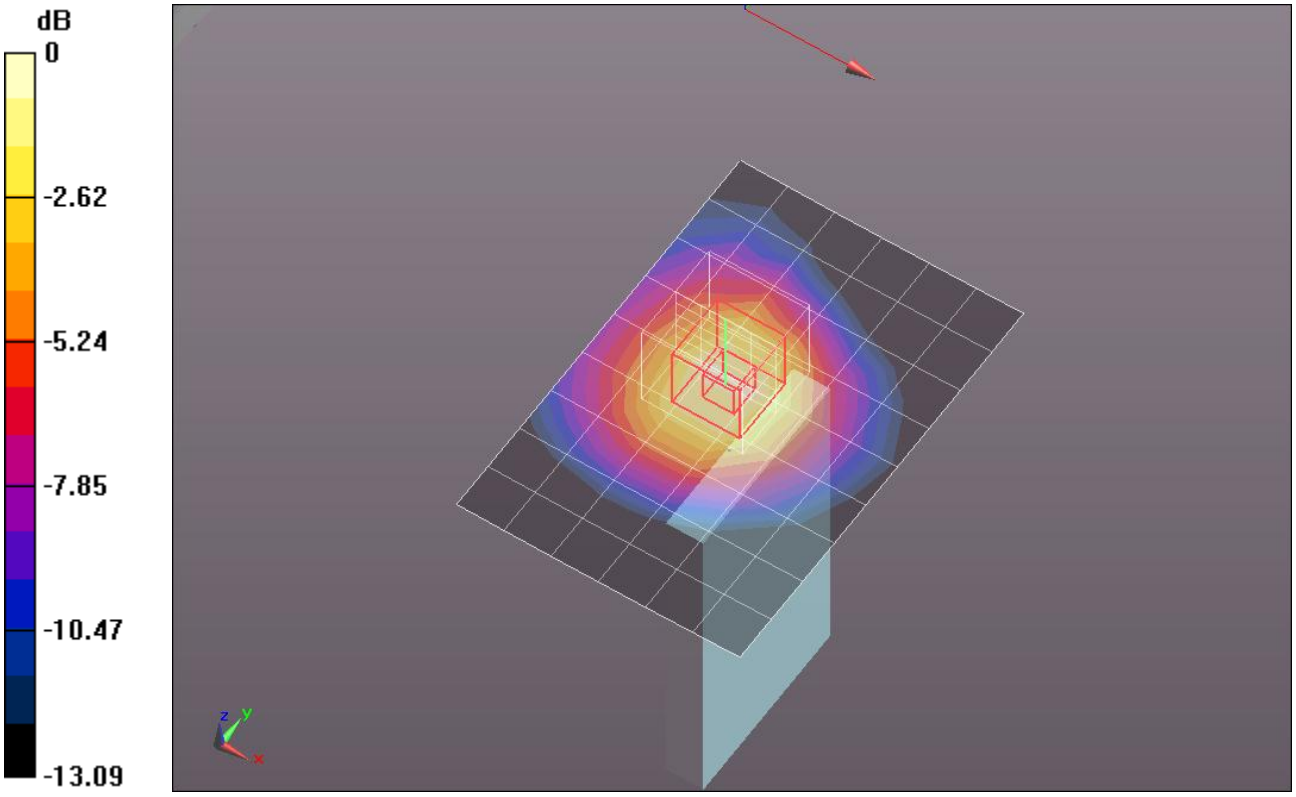
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 1/QPSK RB 1_0/Ch 18900/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.193 mW/g

Edge 1/QPSK RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.025 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.2750
SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.106 mW/g
Maximum value of SAR (measured) = 0.219 mW/g



0 dB = 0.220mW/g = -13.15 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

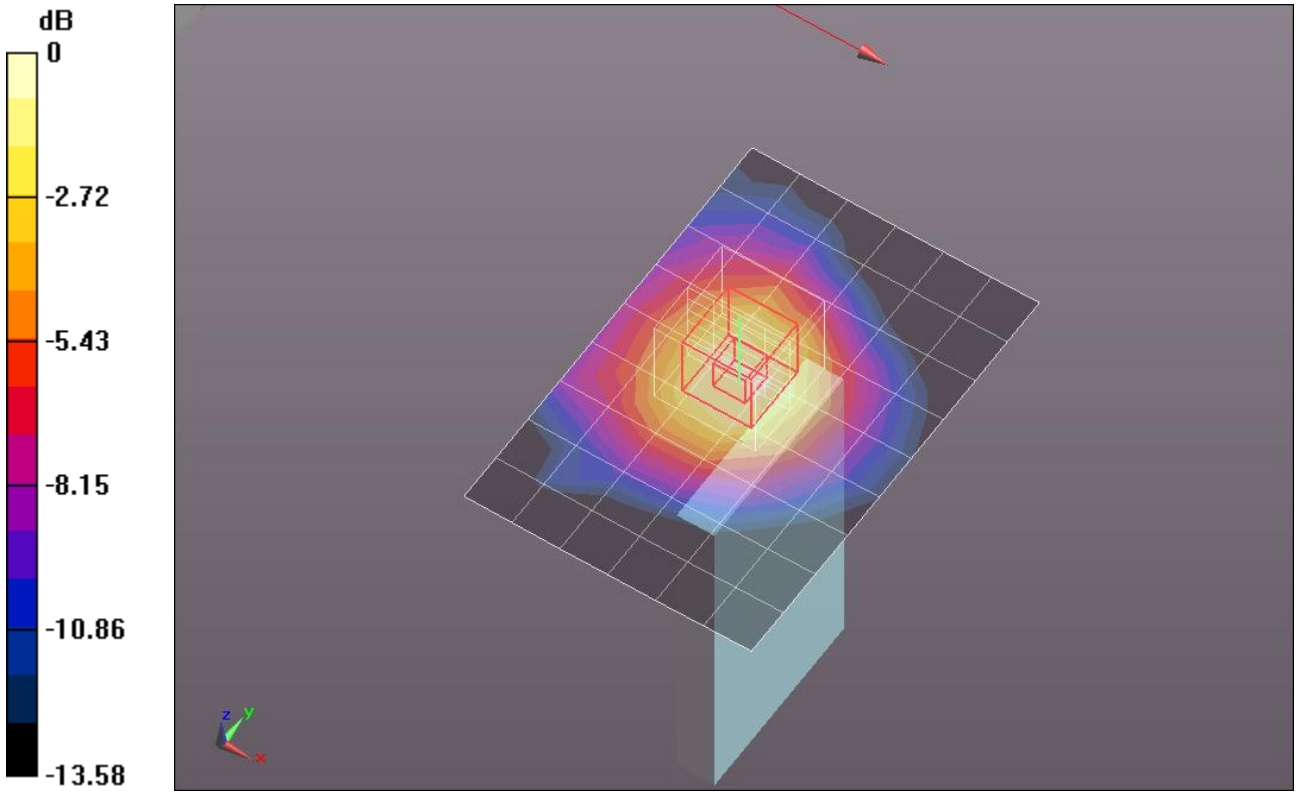
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 1/QPSK RB 1_49/Ch 18900/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.227 mW/g

Edge 1/QPSK RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.250 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.3250
SAR(1 g) = 0.208 mW/g; SAR(10 g) = 0.124 mW/g
Maximum value of SAR (measured) = 0.258 mW/g



0 dB = 0.260mW/g = -11.70 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

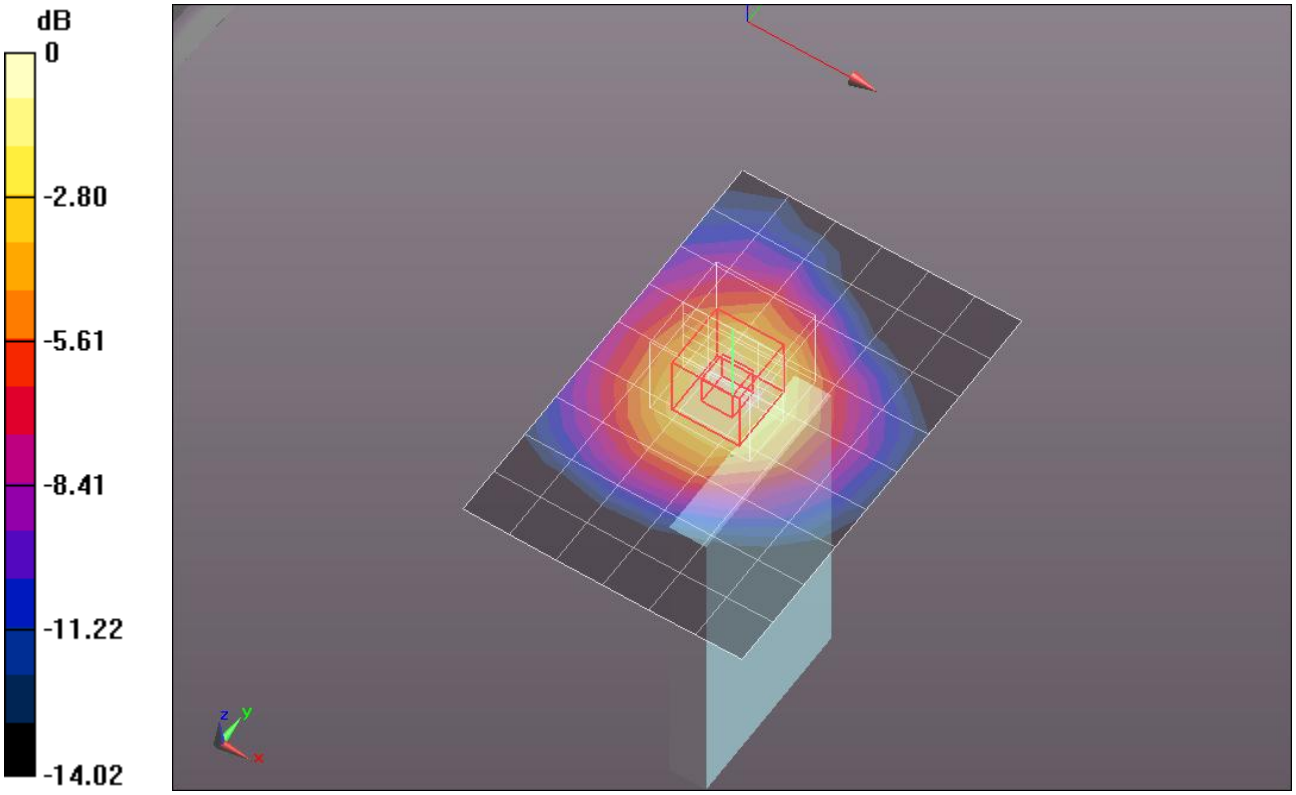
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 1/QPSK RB 25_12/Ch 18900/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.174 mW/g

Edge 1/QPSK RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.738 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.2640
SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.096 mW/g
Maximum value of SAR (measured) = 0.202 mW/g



0 dB = 0.200mW/g = -13.98 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

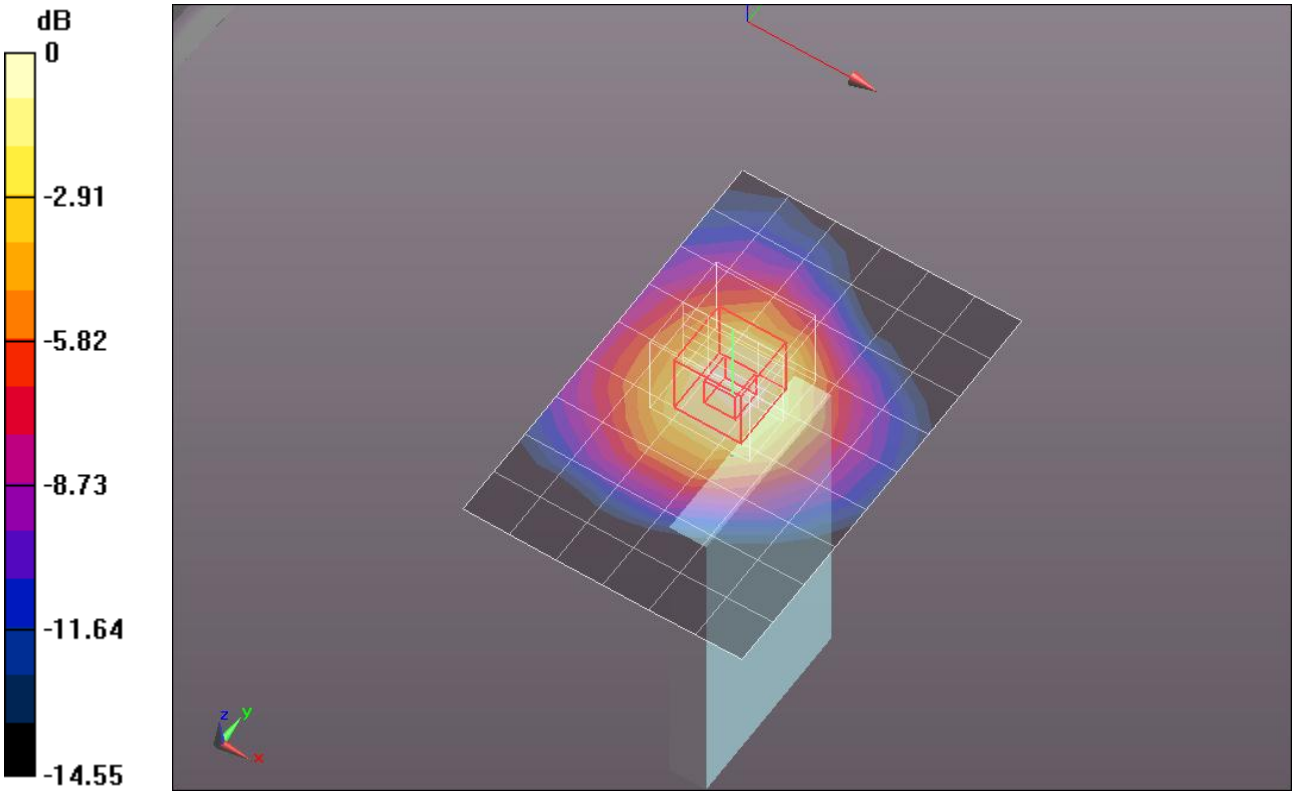
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 1/16QAM RB 1_0/Ch 18900/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.161 mW/g

Edge 1/16QAM RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.444 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.2290
SAR(1 g) = 0.146 mW/g; SAR(10 g) = 0.088 mW/g
Maximum value of SAR (measured) = 0.182 mW/g



0 dB = 0.180mW/g = -14.89 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

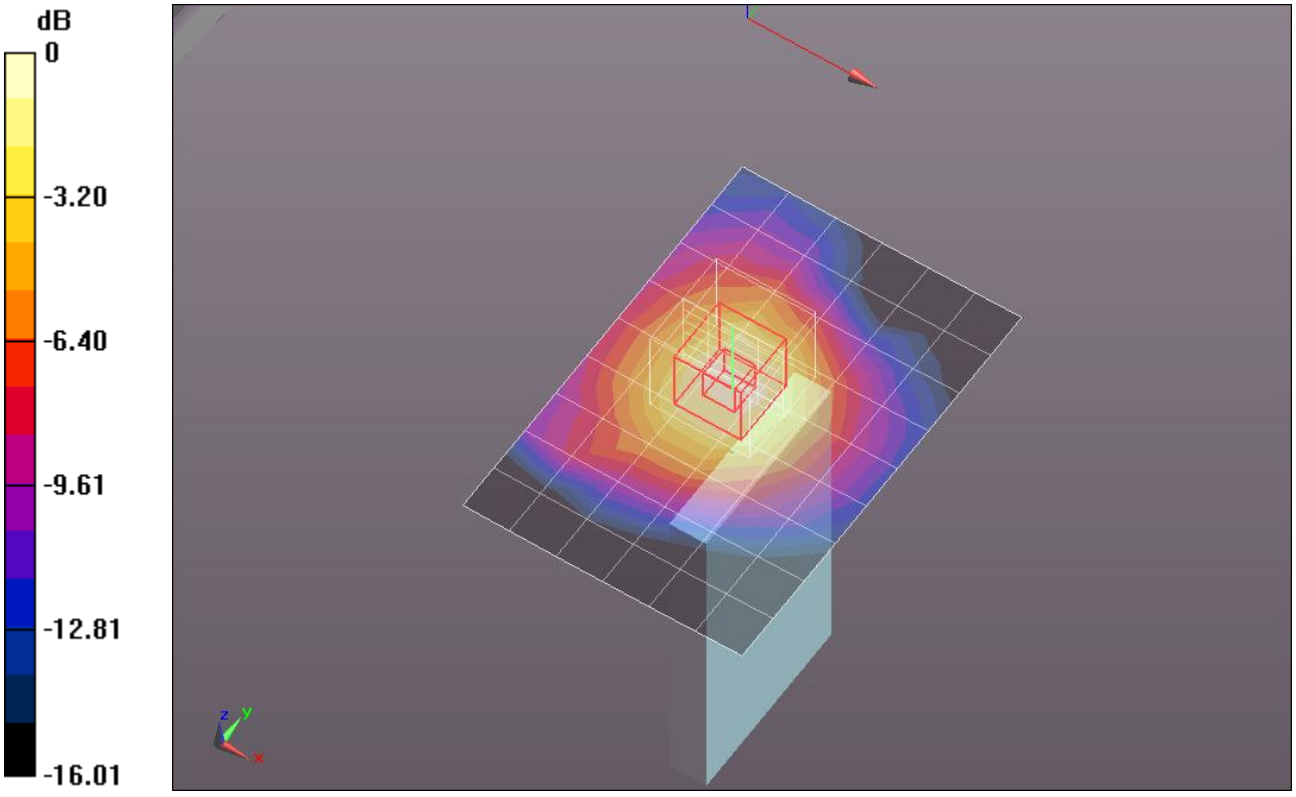
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 1/16QAM RB 1_49/Ch 18900/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.187 mW/g

Edge 1/16QAM RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.063 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.2660
SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.102 mW/g
Maximum value of SAR (measured) = 0.214 mW/g



0 dB = 0.210mW/g = -13.56 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

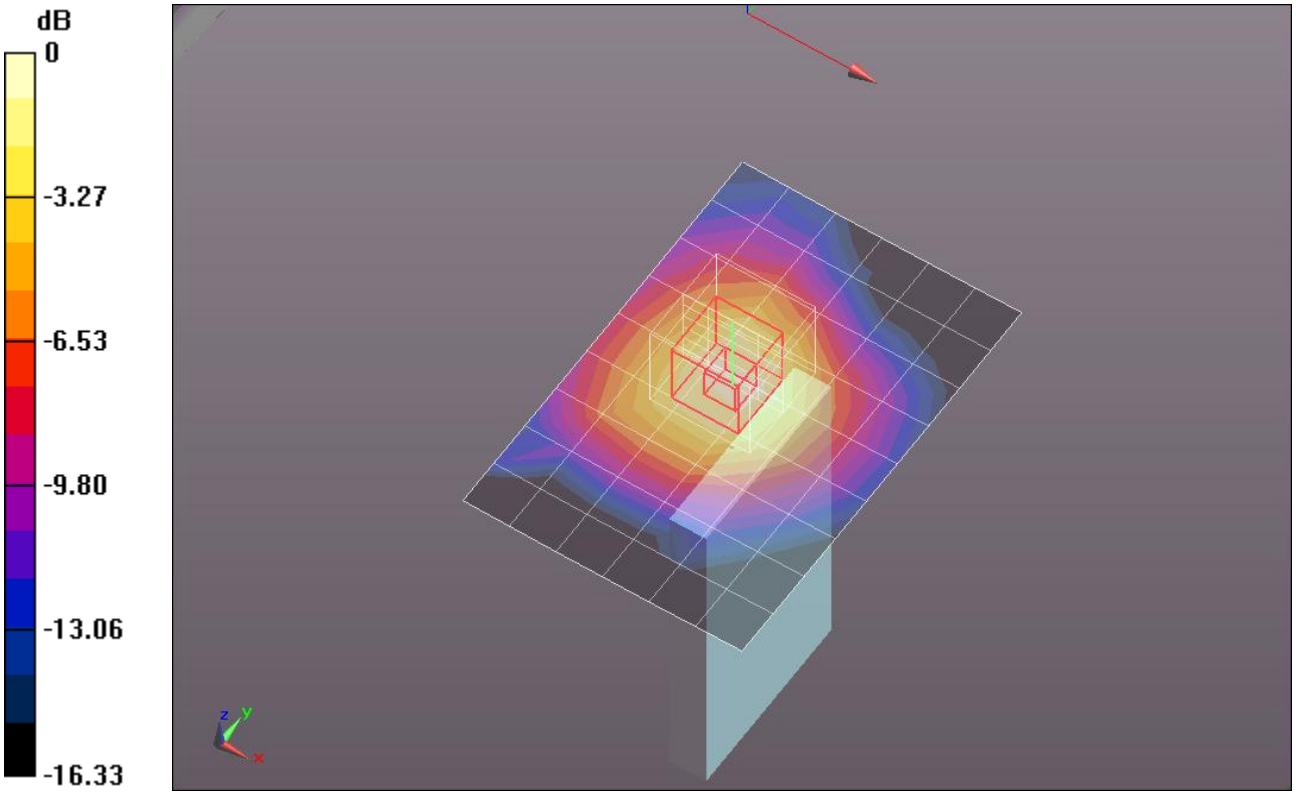
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 1/16QAM RB 25_12/Ch 18900/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.132 mW/g

Edge 1/16QAM RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.305 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.1880
SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.072 mW/g
Maximum value of SAR (measured) = 0.150 mW/g



0 dB = 0.150mW/g = -16.48 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

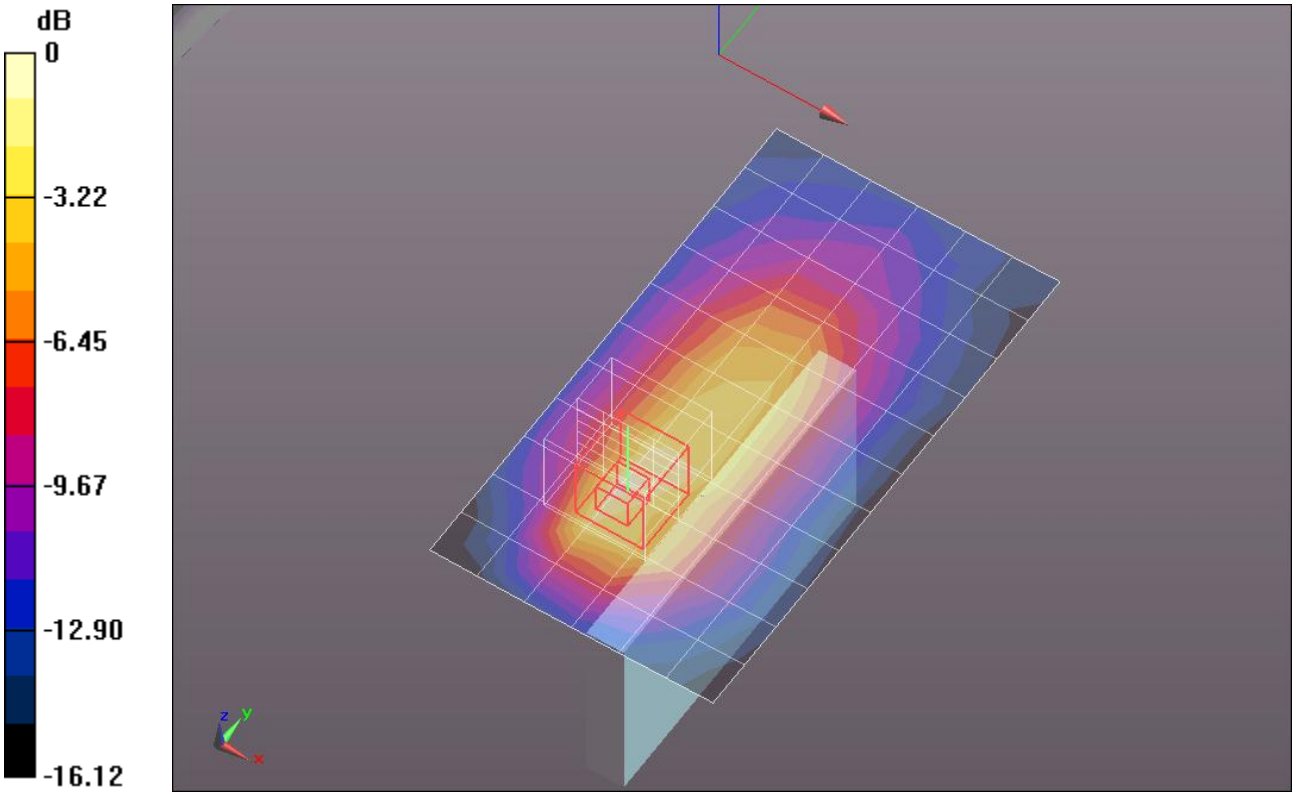
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 2/QPSK RB 1_0/Ch 18900/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.468 mW/g

Edge 2/QPSK RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.655 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.6740
SAR(1 g) = 0.387 mW/g; SAR(10 g) = 0.207 mW/g
Maximum value of SAR (measured) = 0.516 mW/g



0 dB = 0.520mW/g = -5.68 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

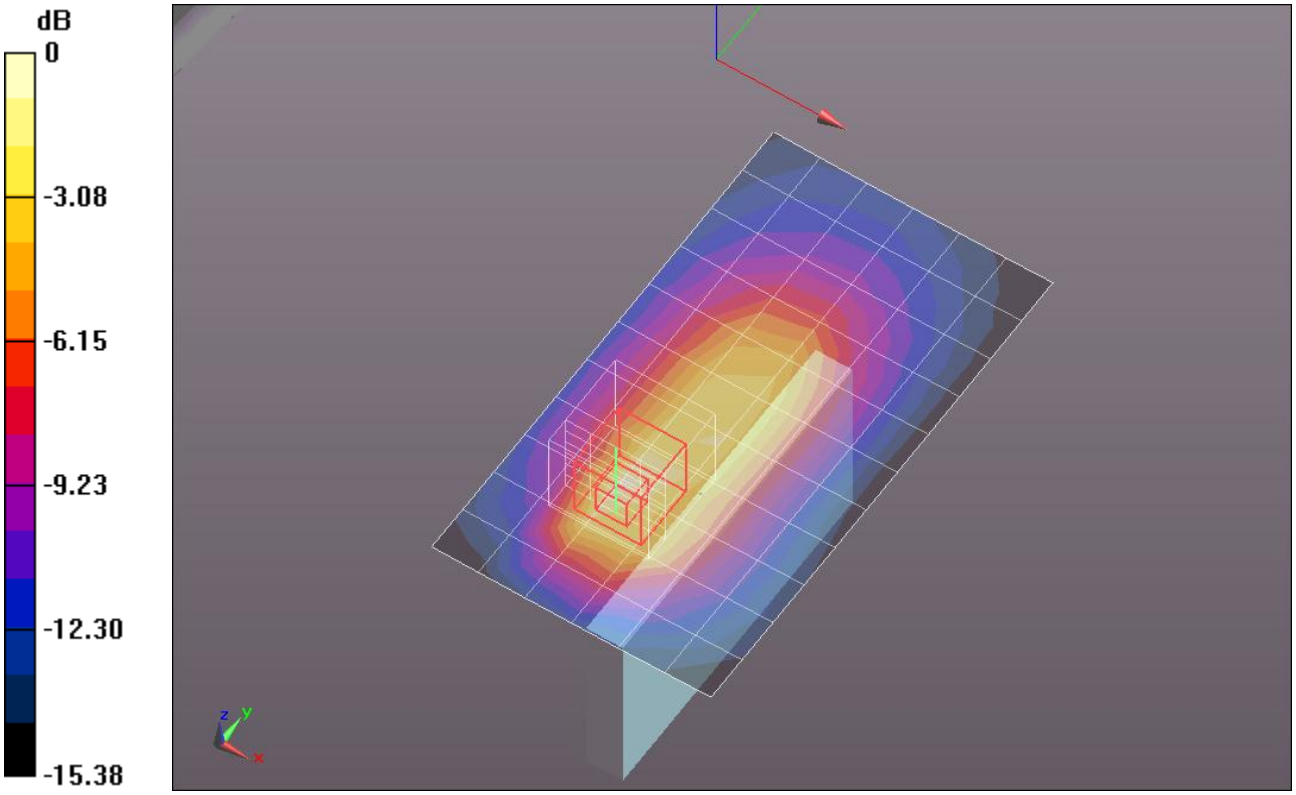
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 2/QPSK RB 1_49/Ch 18900/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.558 mW/g

Edge 2/QPSK RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.760 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.8230
SAR(1 g) = 0.472 mW/g; SAR(10 g) = 0.251 mW/g
Maximum value of SAR (measured) = 0.625 mW/g



0 dB = 0.630mW/g = -4.01 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

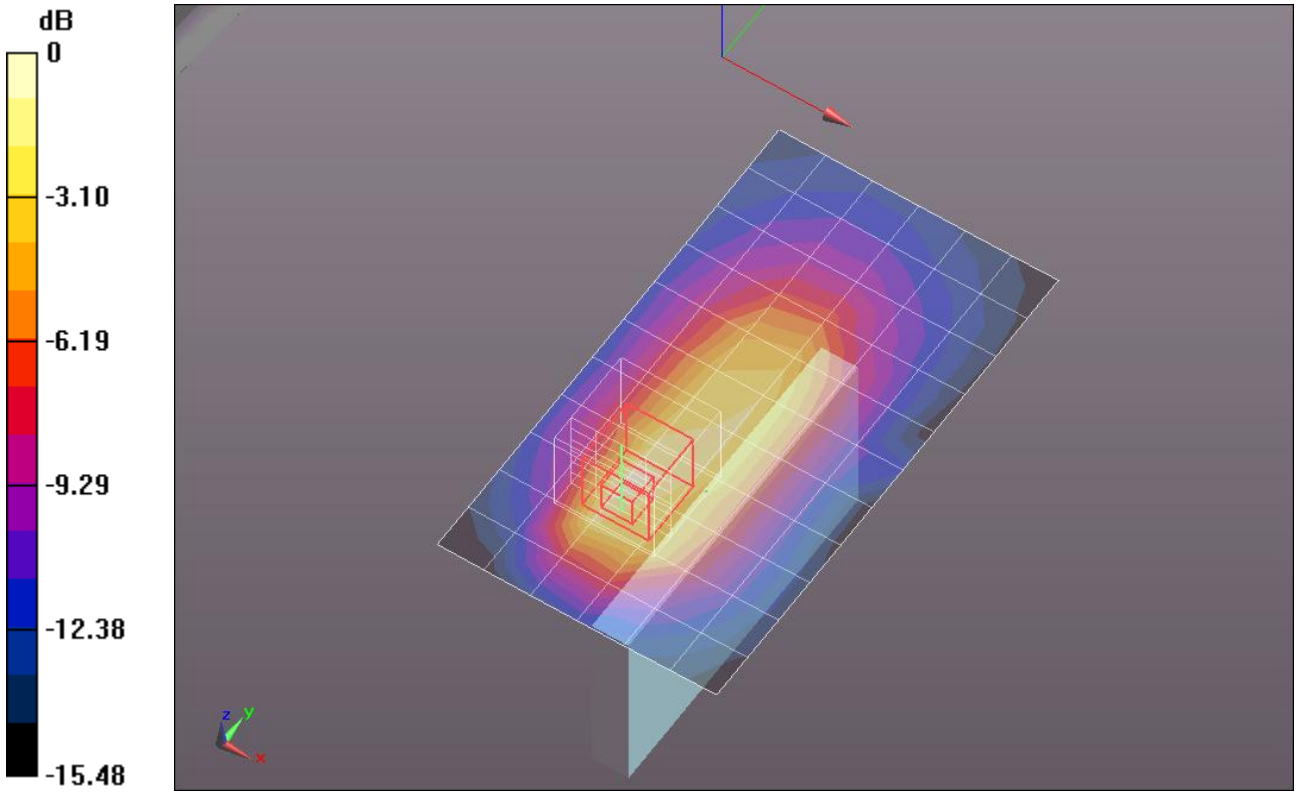
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 2/QPSK RB 25_12/Ch 18900/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.436 mW/g

Edge 2/QPSK RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.398 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.6170
SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.188 mW/g
Maximum value of SAR (measured) = 0.463 mW/g



0 dB = 0.460mW/g = -6.74 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

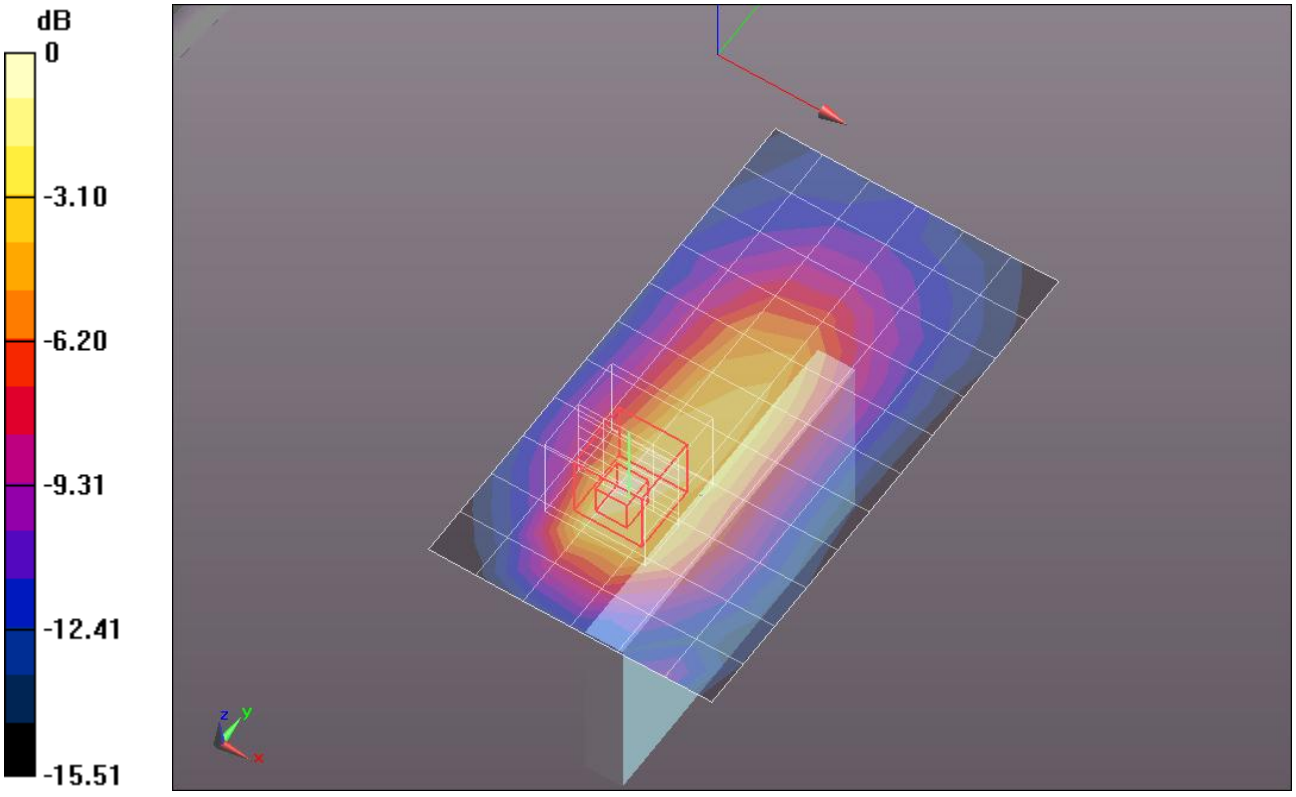
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 2/16QAM RB 1_0/Ch 18900/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.395 mW/g

Edge 2/16QAM RB 1_0/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.371 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.5660
SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.176 mW/g
Maximum value of SAR (measured) = 0.439 mW/g



0 dB = 0.440mW/g = -7.13 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

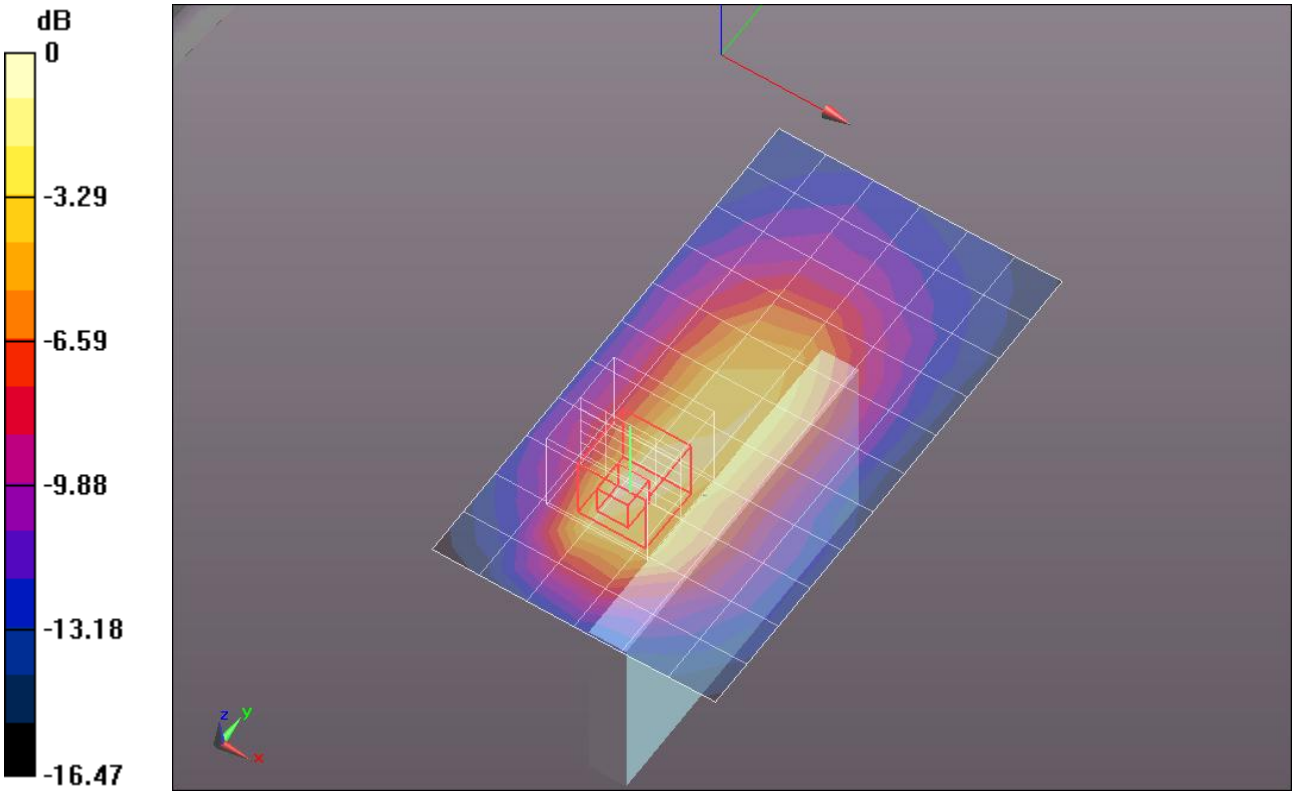
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 2/16QAM RB 1_49/Ch 18900/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.472 mW/g

Edge 2/16QAM RB 1_49/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.191 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.6930
SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.211 mW/g
Maximum value of SAR (measured) = 0.529 mW/g



0 dB = 0.530mW/g = -5.51 dB mW/g

Test Laboratory: UL CCS SAR Lab B Date: 6/5/2012

LTE Band2

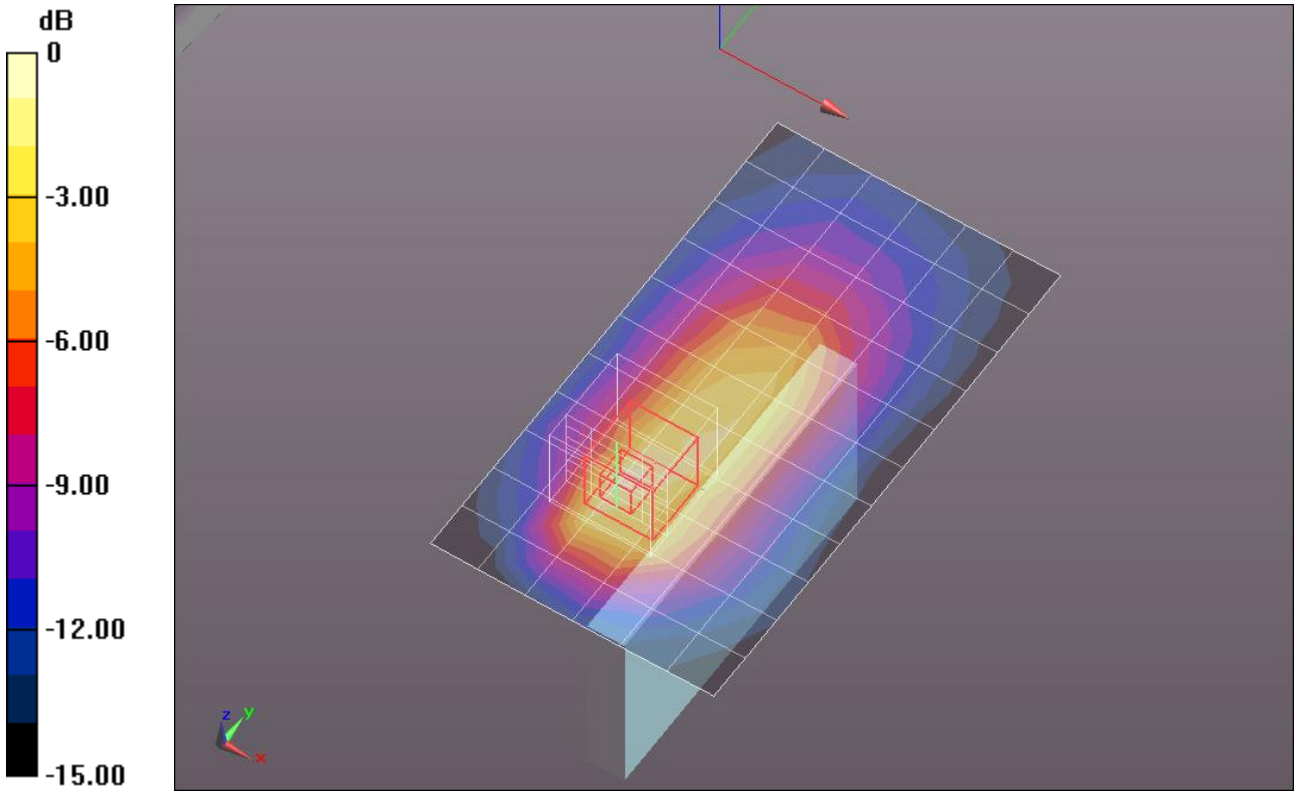
Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1880 MHz; σ = 1.528 mho/m; ε_r = 51.289; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(7.04, 7.04, 7.04); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

Edge 2/16QAM RB 25_12/Ch 18900/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.334 mW/g

Edge 2/16QAM RB 25_12/Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.109 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.6480
SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.157 mW/g
Maximum value of SAR (measured) = 0.363 mW/g



0 dB = 0.360mW/g = -8.87 dB mW/g