LTE Band 4

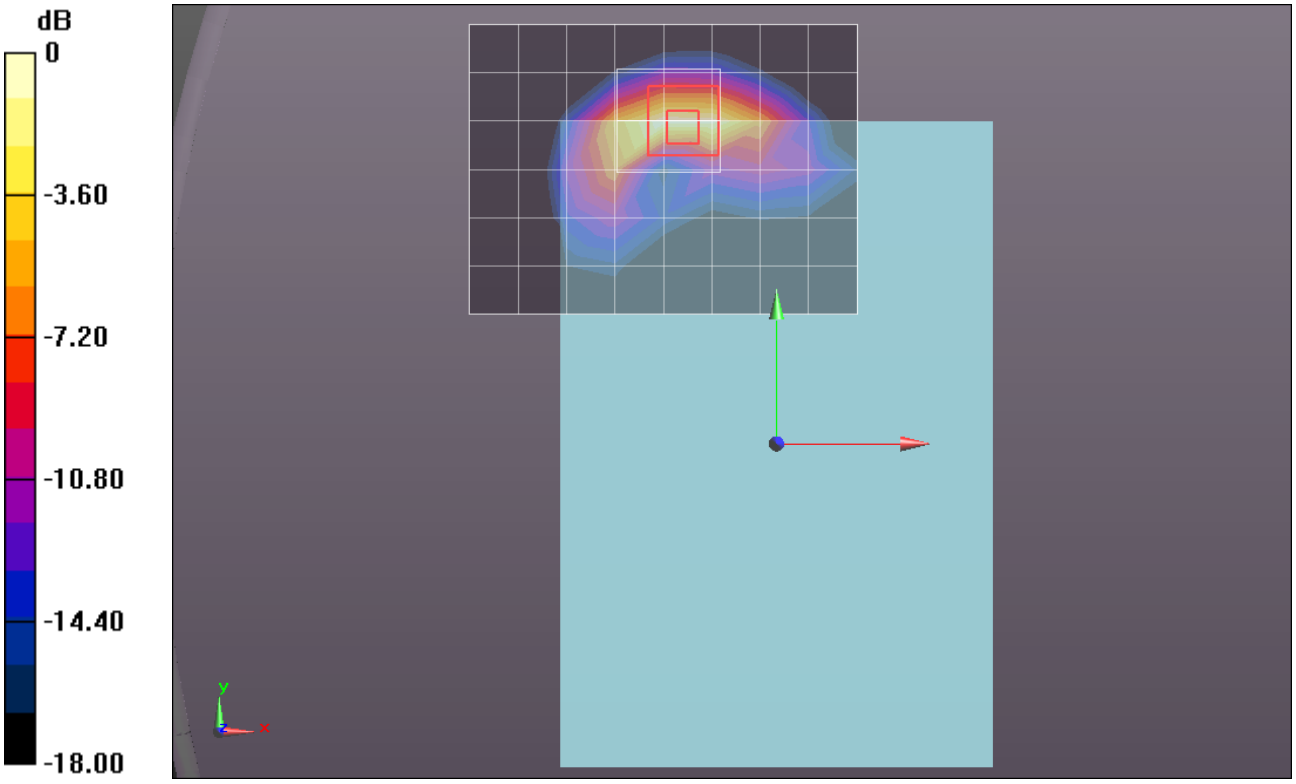
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.429 mho/m; ε_r = 53.406; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 99_Ch 20050 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.428 mW/g

Rear/QPSK_RB# 1, 99_Ch 20050 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.383 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 2.3180
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.524 mW/g
Maximum value of SAR (measured) = 1.493 mW/g



0 dB = 1.490mW/g = 3.46 dB mW/g

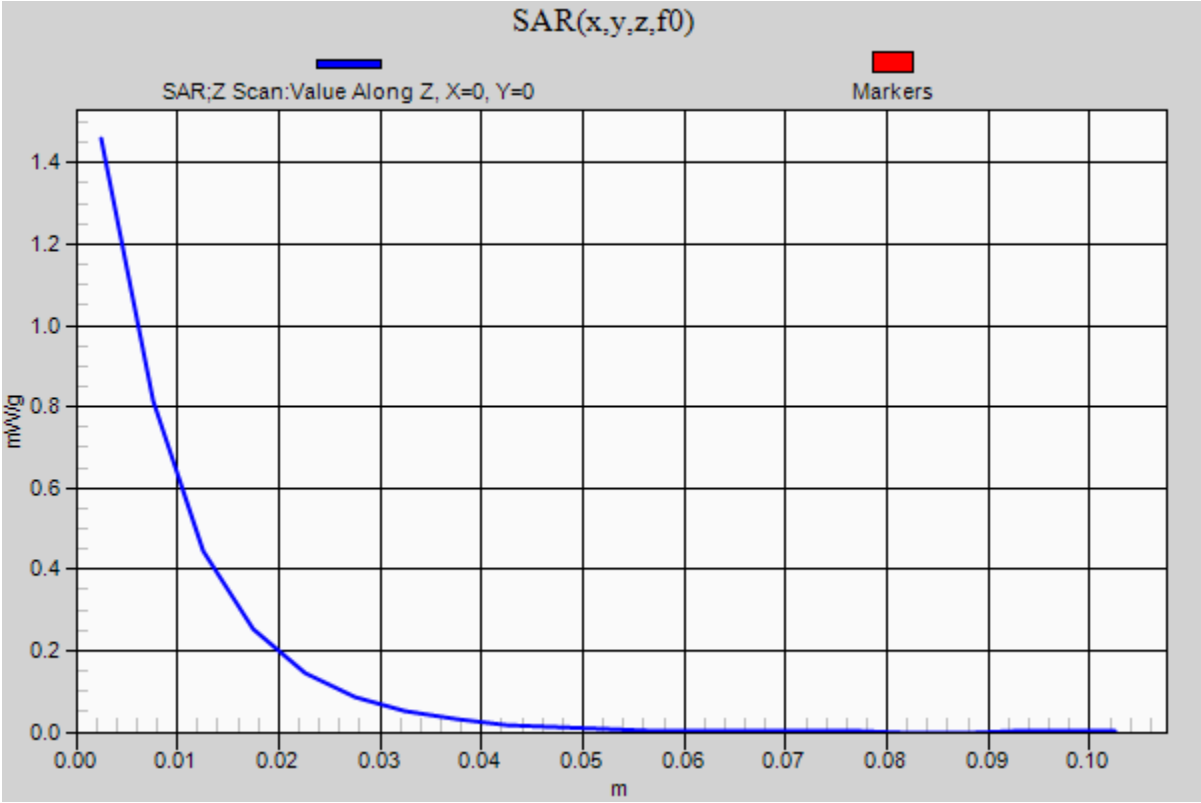
Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

Frequency: 1720 MHz; Duty Cycle: 1:1

Rear/QPSK_RB# 1, 99_Ch 20050 w/ Pwr back-off (Pri.) (0 mm)/Z Scan (1x1x21):

Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 1.459 mW/g



Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

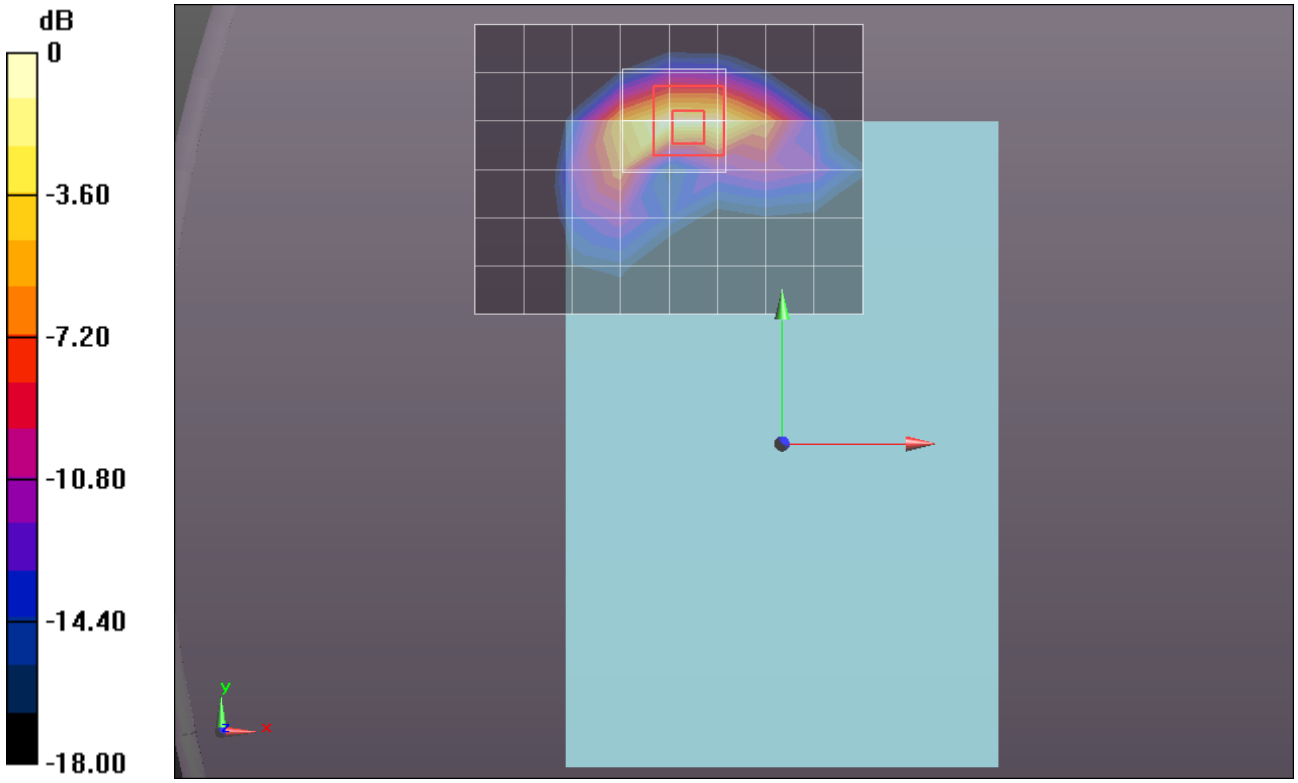
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.429 mho/m; ε_r = 53.406; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 24_Ch 20050 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.165 mW/g

Rear/QPSK_RB# 50, 24_Ch 20050 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.166 V/m; Power Drift = 0.0093 dB
Peak SAR (extrapolated) = 1.9310
SAR(1 g) = 0.961 mW/g; SAR(10 g) = 0.427 mW/g
Maximum value of SAR (measured) = 1.234 mW/g



0 dB = 1.230mW/g = 1.80 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

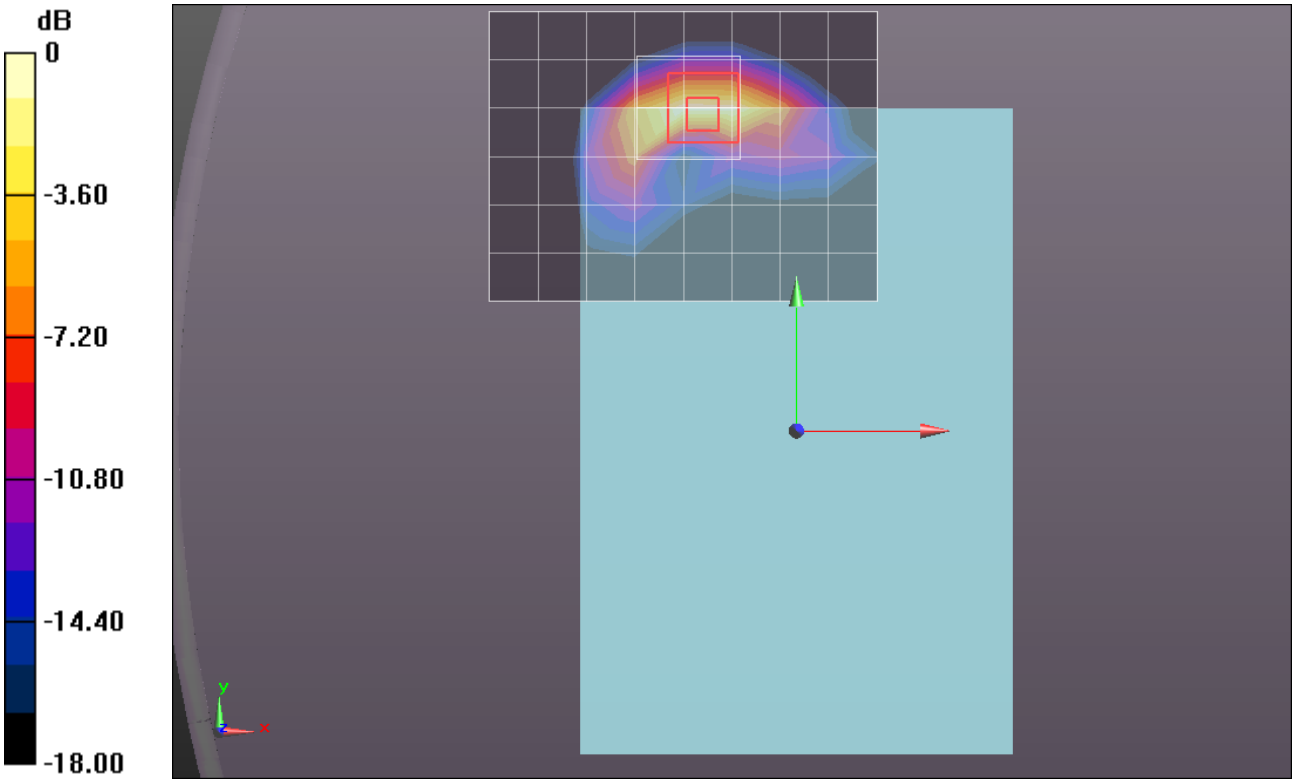
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.429 mho/m; ε_r = 53.406; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 100, 0_Ch 20050 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.209 mW/g

Rear/QPSK_RB# 100, 0_Ch 20050 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.637 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.9490
SAR(1 g) = 0.975 mW/g; SAR(10 g) = 0.435 mW/g
Maximum value of SAR (measured) = 1.250 mW/g



0 dB = 1.250mW/g = 1.94 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

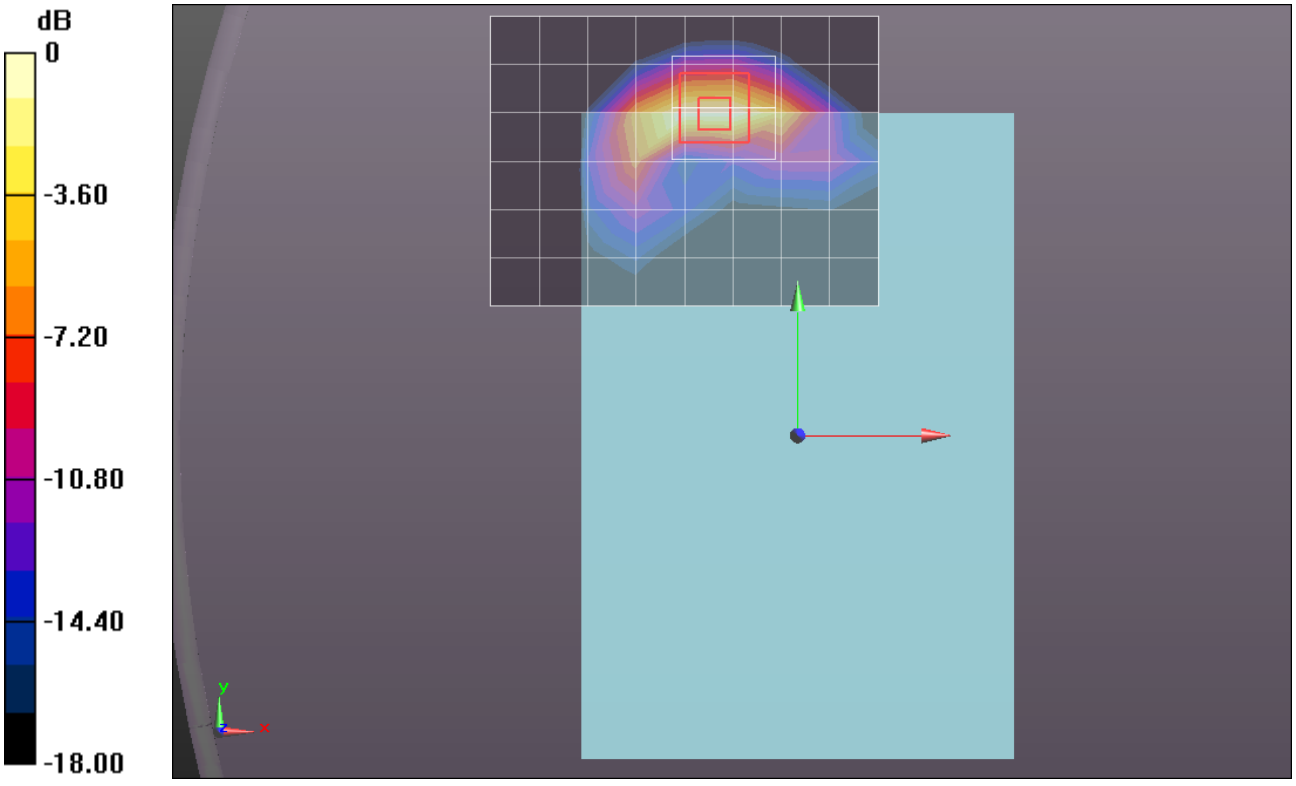
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.355 mW/g

Rear/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.831 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.0780
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.465 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.301 mW/g



0 dB = 1.300mW/g = 2.28 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

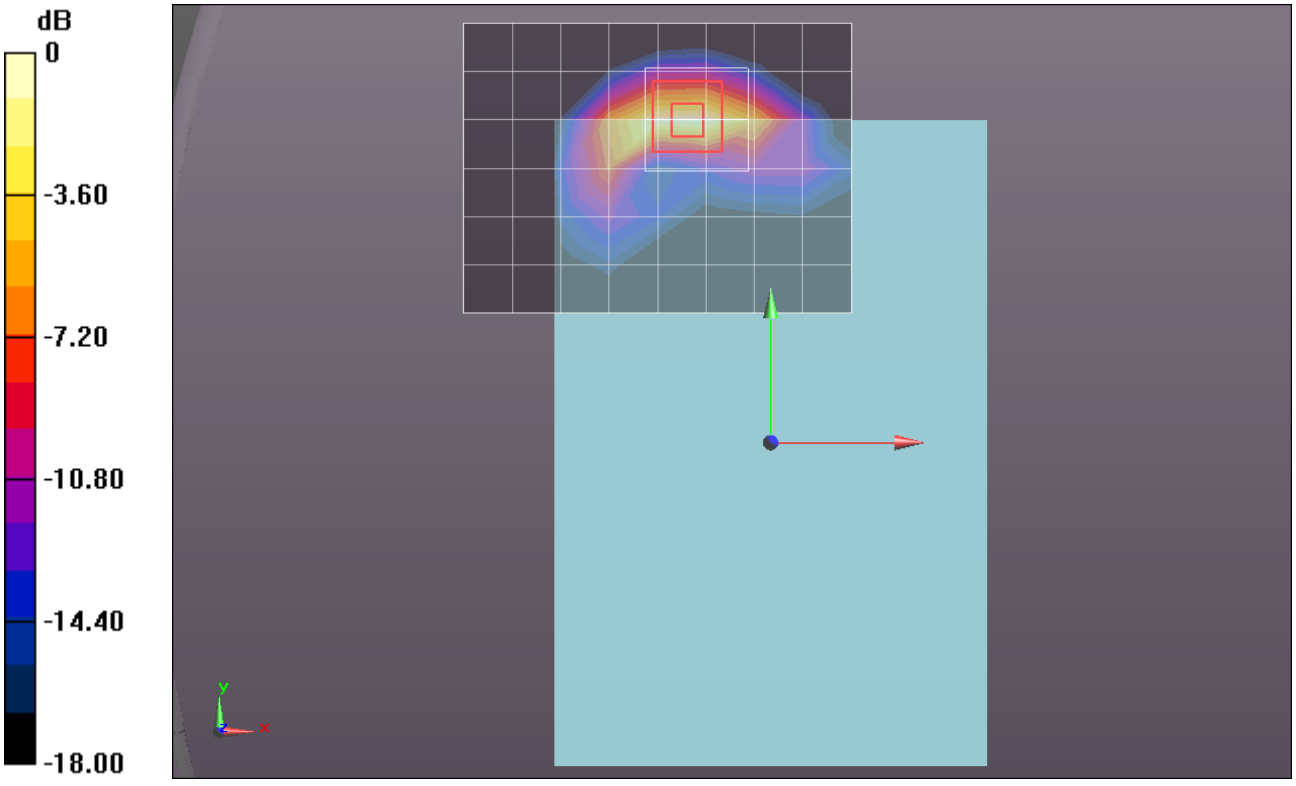
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.413 mW/g

Rear/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.372 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.0430
SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.483 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.468 mW/g



0 dB = 1.470mW/g = 3.35 dB mW/g

LTE Band 4

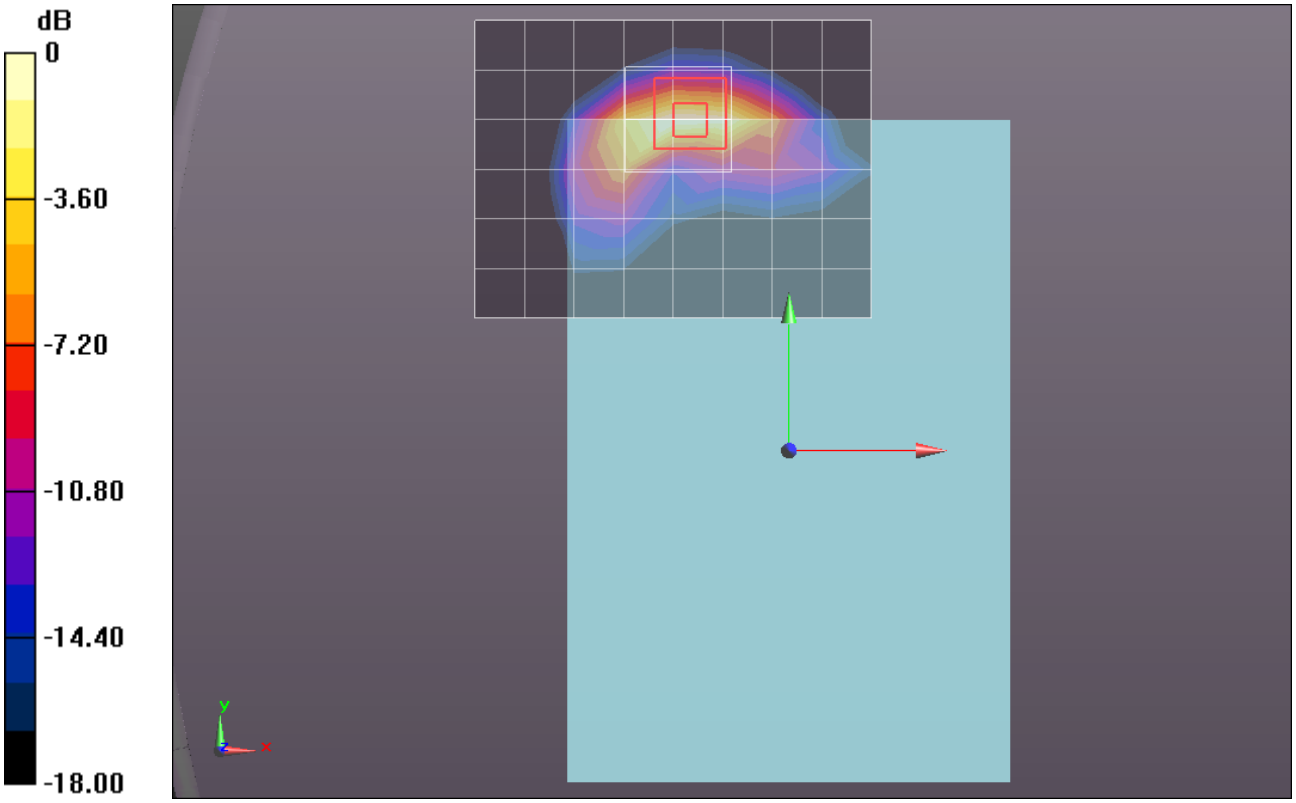
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.687 mW/g

Rear/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.767 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 2.1040
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.493 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.537 mW/g



0 dB = 1.540mW/g = 3.75 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

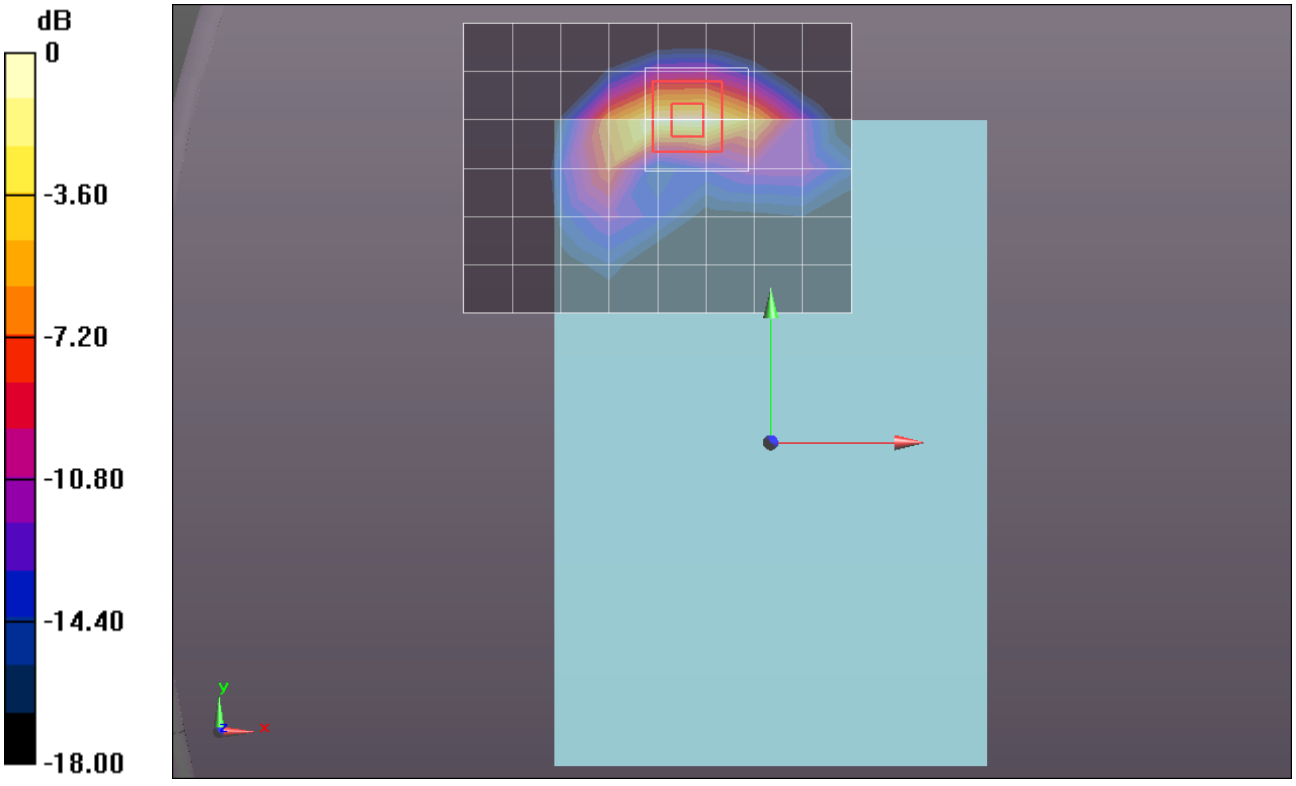
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.491 mW/g

Rear/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.328 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.1840
SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.510 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.562 mW/g



0 dB = 1.560mW/g = 3.86 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

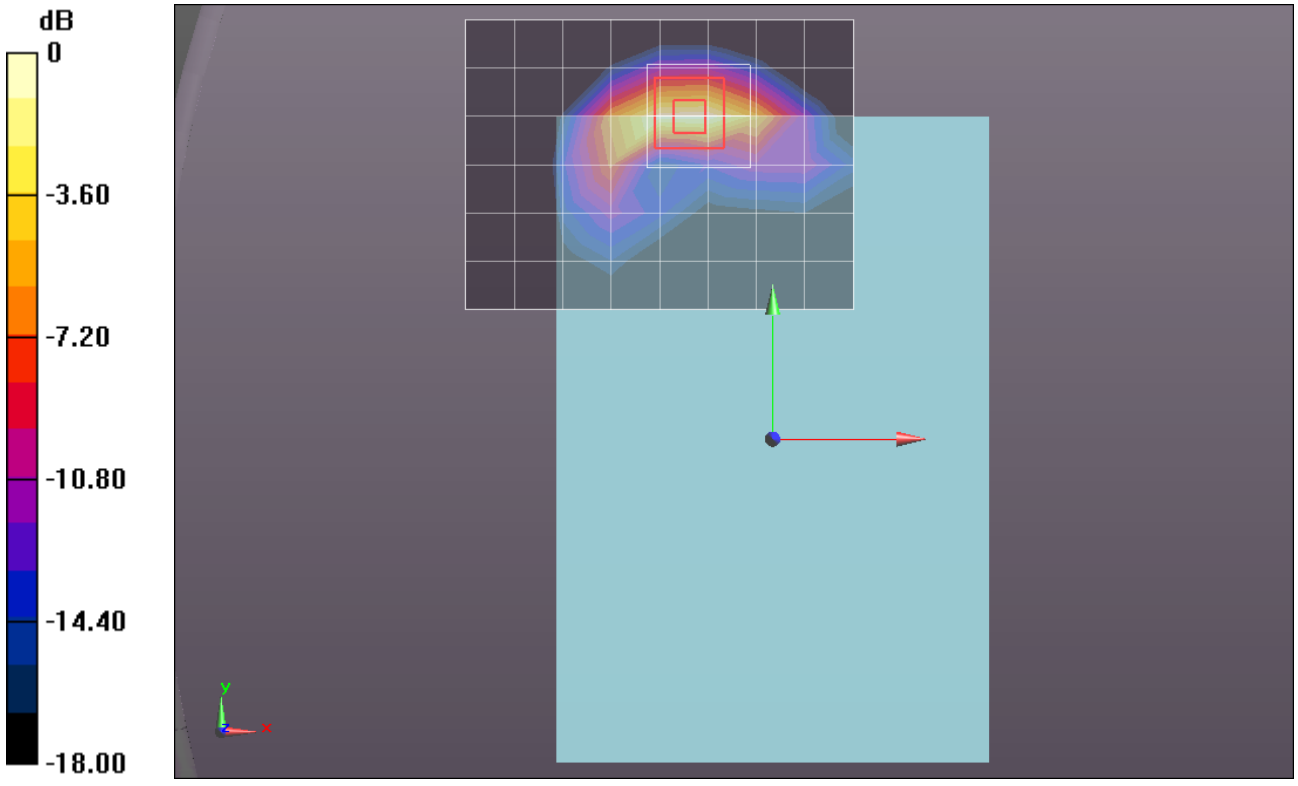
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.466 mW/g

Rear/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.919 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.1470
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.500 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.530 mW/g



0 dB = 1.530mW/g = 3.69 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

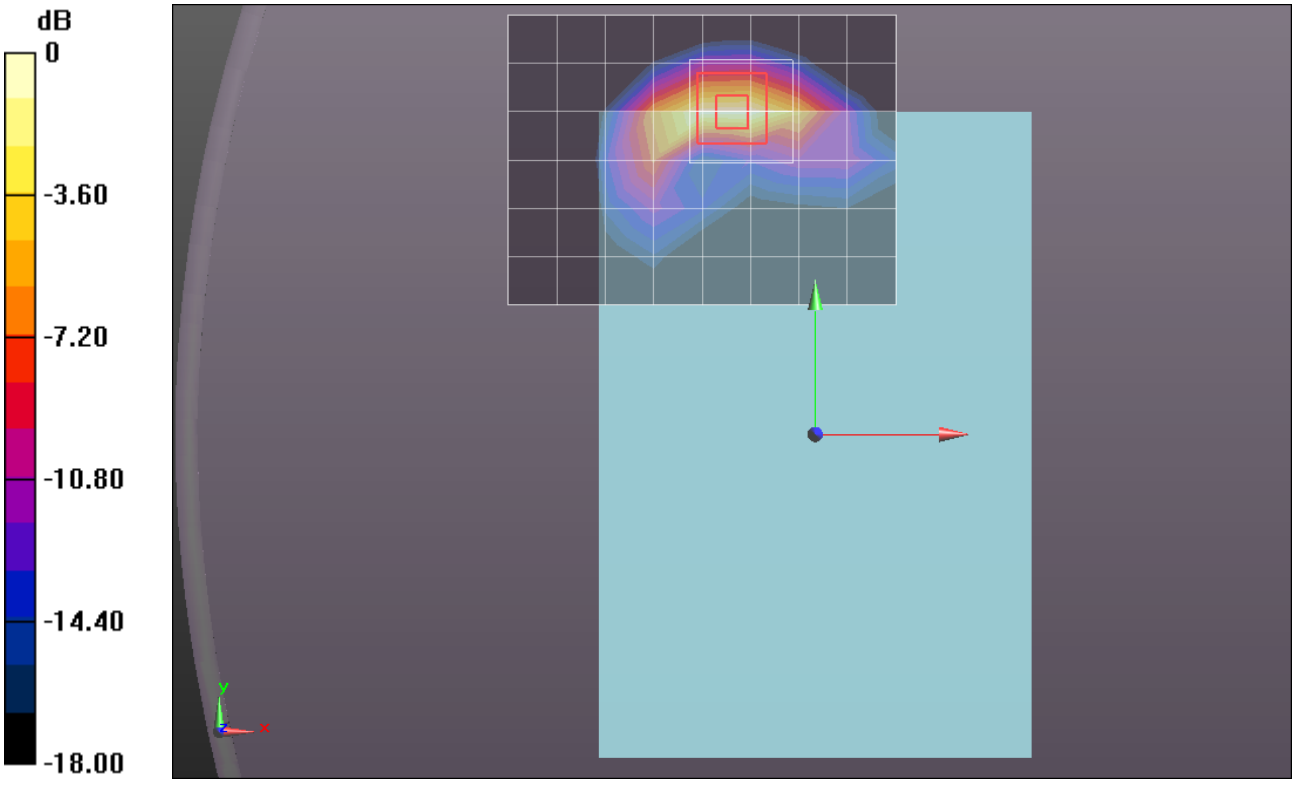
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.278 mW/g

Rear/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.132 V/m; Power Drift = 0.003 dB
Peak SAR (extrapolated) = 1.8550
SAR(1 g) = 0.968 mW/g; SAR(10 g) = 0.437 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.333 mW/g



0 dB = 1.330mW/g = 2.48 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

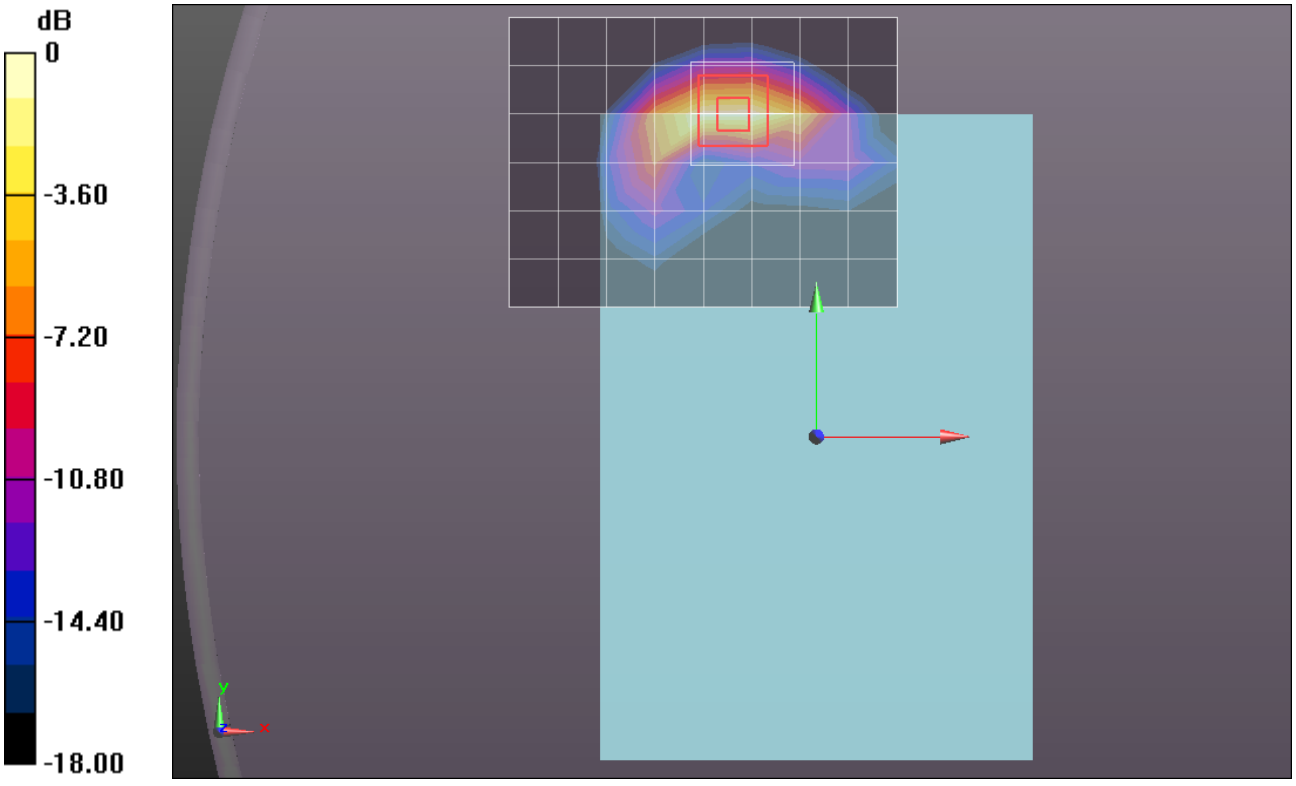
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.399 mW/g

Rear/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.290 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.0760
SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.480 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.492 mW/g



0 dB = 1.490mW/g = 3.46 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

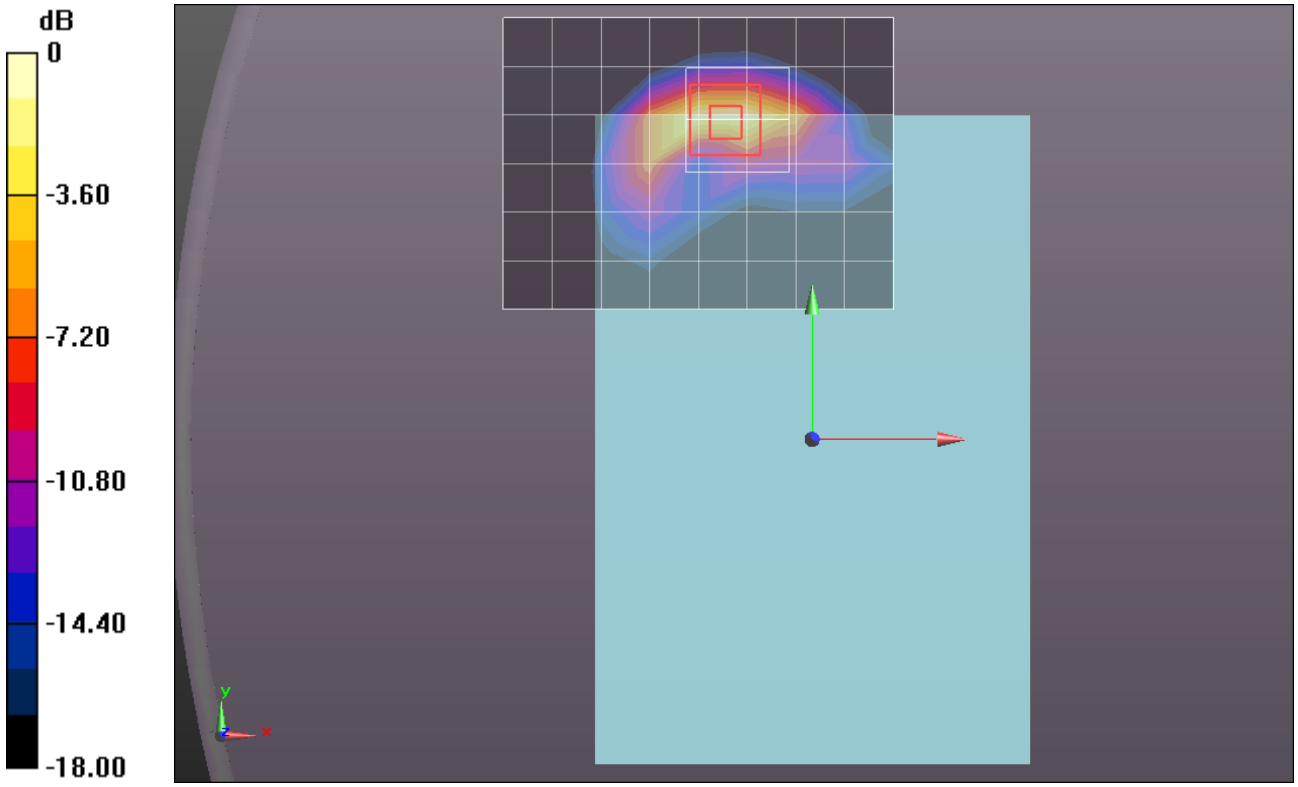
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.486 mho/m; ε_r = 52.814; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 99_Ch 20300 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.159 mW/g

Rear/QPSK_RB# 1, 99_Ch 20300 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.906 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.9880
SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.453 mW/g
Maximum value of SAR (measured) = 1.374 mW/g



0 dB = 1.370mW/g = 2.73 dB mW/g

LTE Band 4

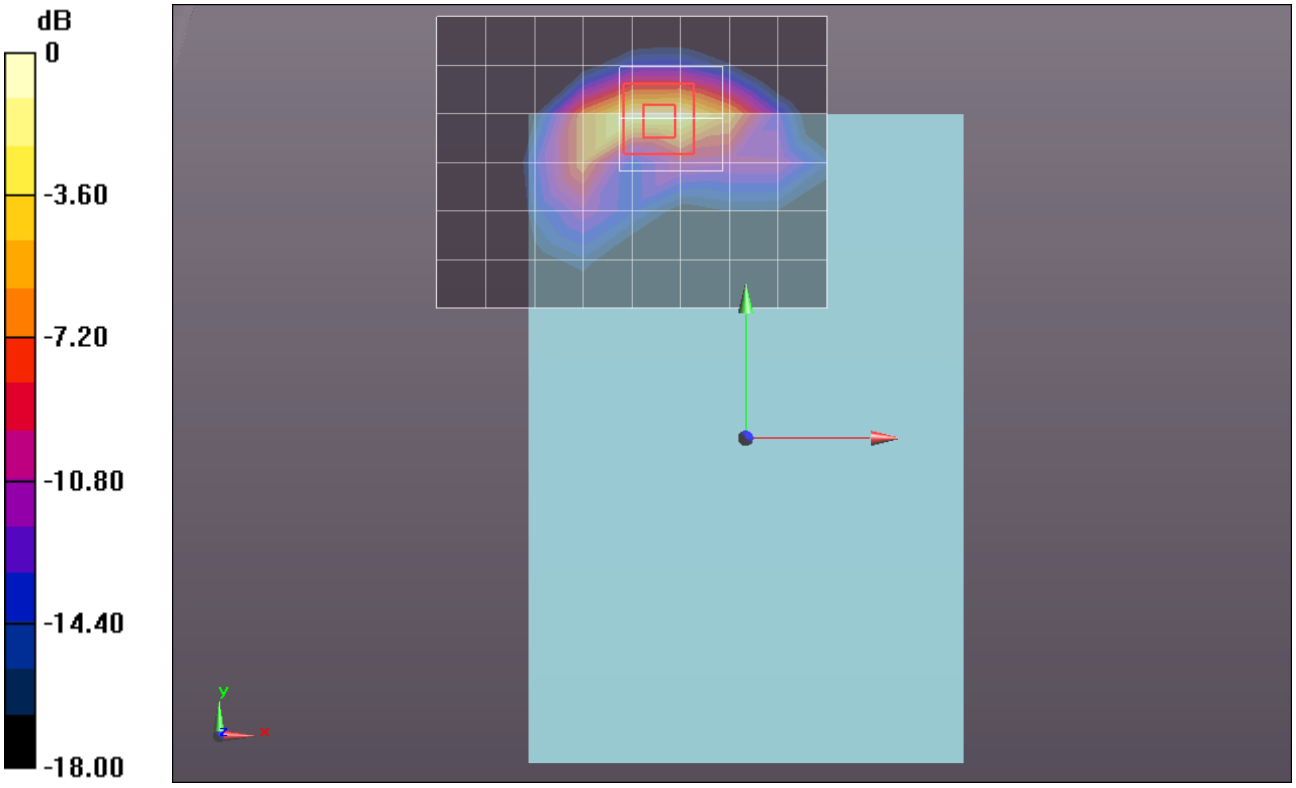
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.486 mho/m; ε_r = 52.814; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 0_Ch 20300 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.233 mW/g

Rear/QPSK_RB# 50, 0_Ch 20300 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.444 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.0590
SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.473 mW/g
Maximum value of SAR (measured) = 1.433 mW/g



0 dB = 1.430mW/g = 3.11 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

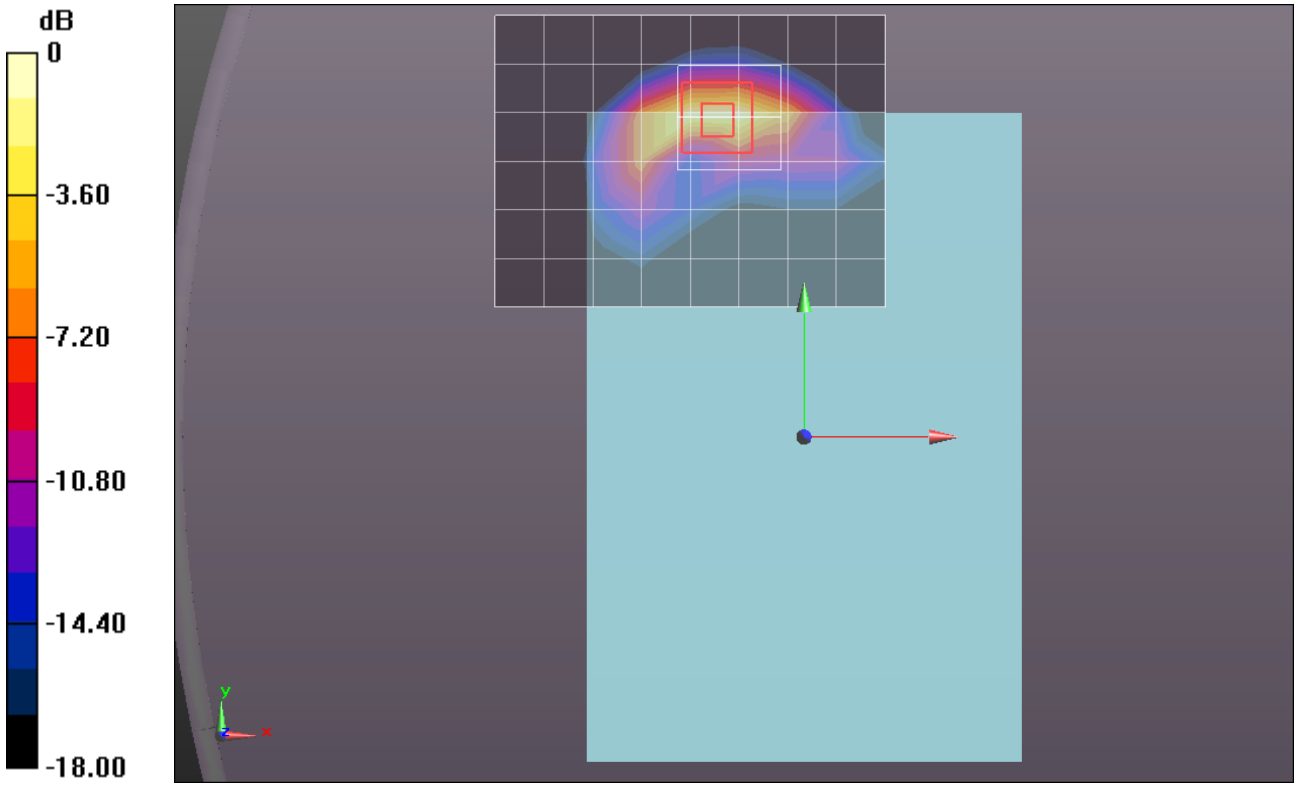
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.486 mho/m; ε_r = 52.814; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 100, 0_Ch 20300 w/ Pwr back-off (Pri.) (0 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.139 mW/g

Rear/QPSK_RB# 100, 0_Ch 20300 w/ Pwr back-off (Pri.) (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.581 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.9600
SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.443 mW/g
Maximum value of SAR (measured) = 1.332 mW/g



0 dB = 1.330mW/g = 2.48 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

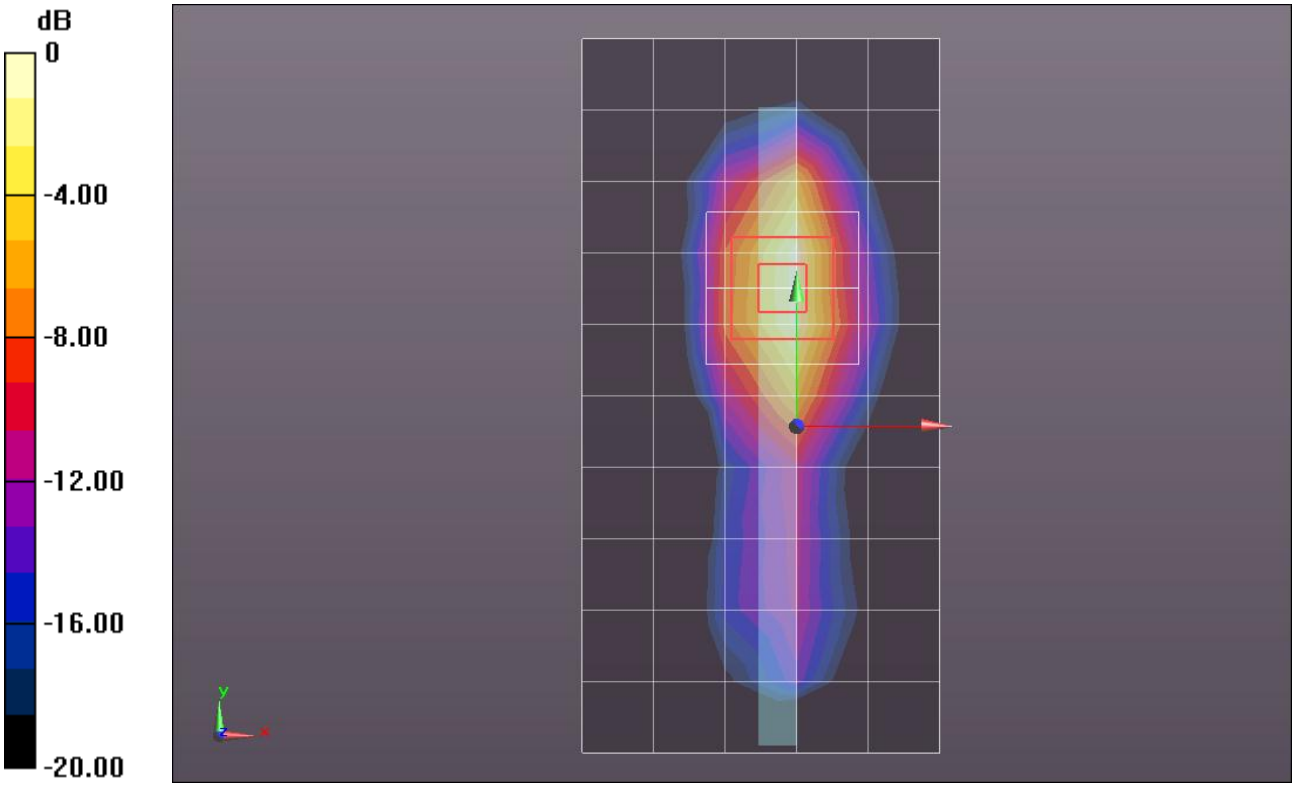
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.429 mho/m; ε_r = 53.406; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 1,99 _Ch 20050 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.345 mW/g

Edge 1/QPSK_RB# 1,99 _Ch 20050 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.667 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 2.0910
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.523 mW/g
Maximum value of SAR (measured) = 1.549 mW/g



0 dB = 1.550mW/g = 3.81 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

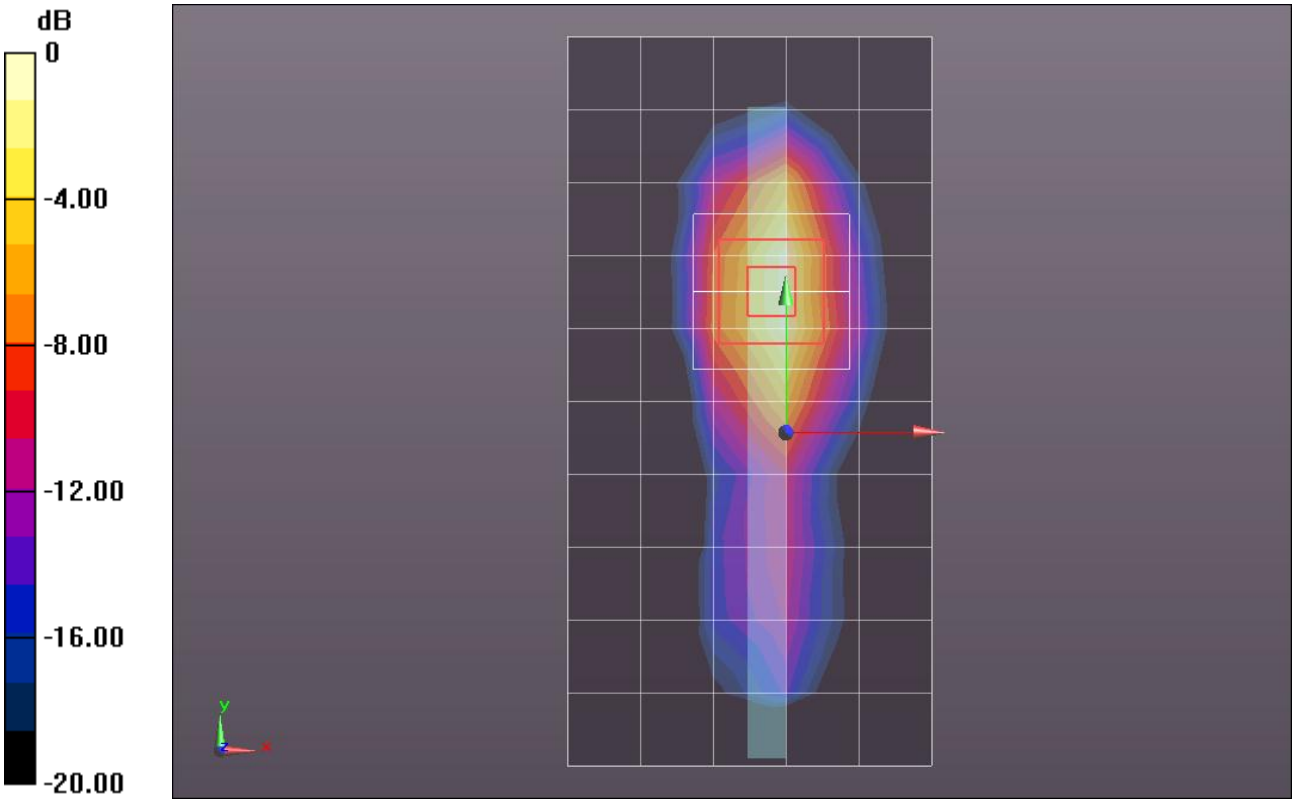
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.429 mho/m; ε_r = 53.406; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 50,24 _Ch 20050 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.944 mW/g

Edge 1/QPSK_RB# 50,24 _Ch 20050 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.177 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.4930
SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.374 mW/g
Maximum value of SAR (measured) = 1.095 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

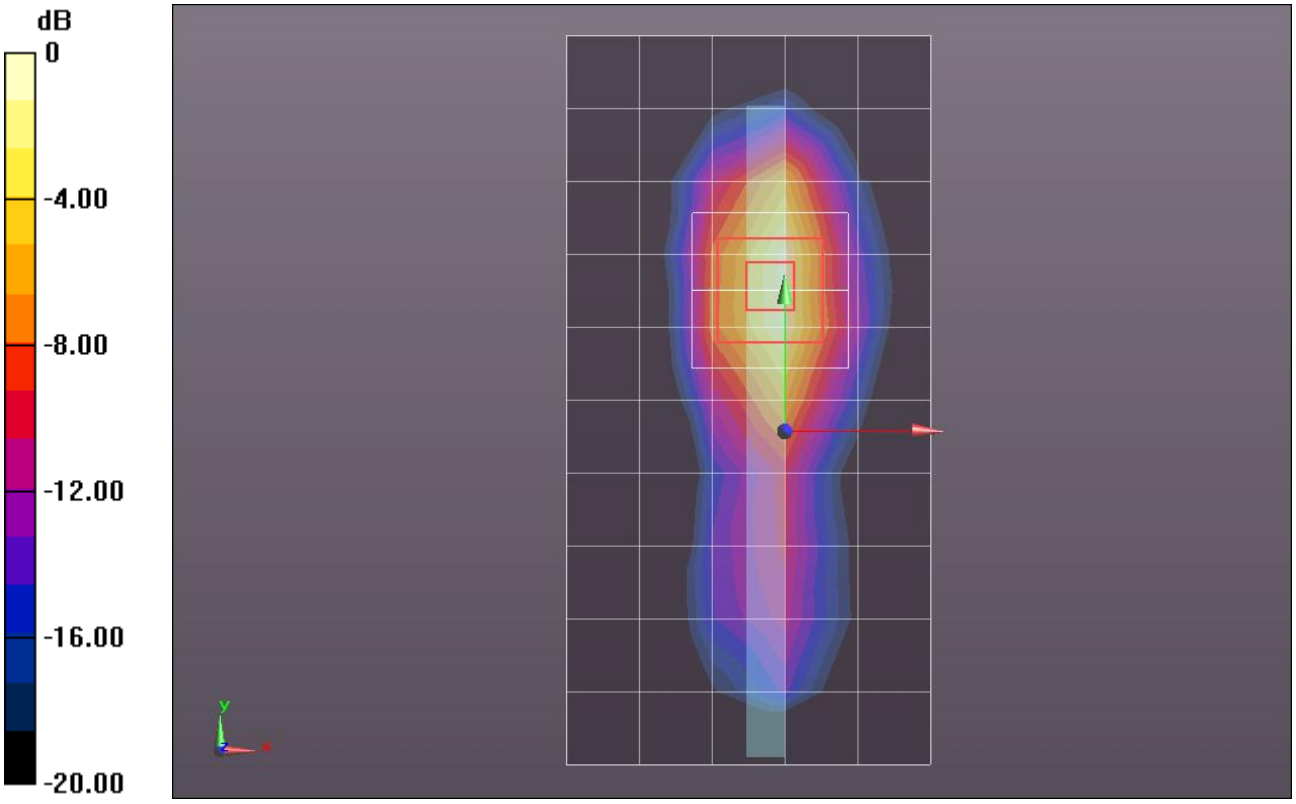
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.429 mho/m; ε_r = 53.406; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 100,0 _Ch 20050 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.924 mW/g

Edge 1/QPSK_RB# 100,0 _Ch 20050 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.068 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.4820
SAR(1 g) = 0.782 mW/g; SAR(10 g) = 0.372 mW/g
Maximum value of SAR (measured) = 1.093 mW/g



0 dB = 1.090mW/g = 0.75 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

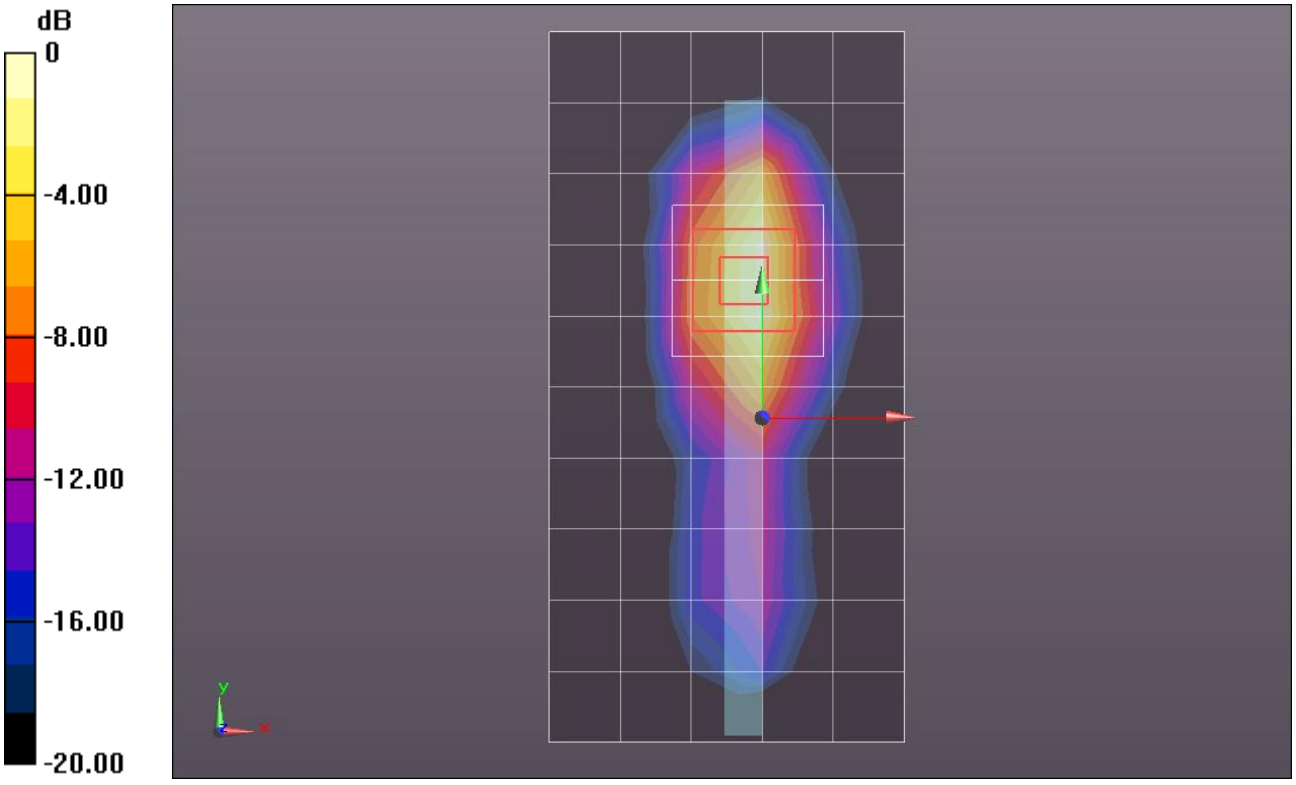
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.079 mW/g

Edge 1/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.790 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.7580
SAR(1 g) = 0.933 mW/g; SAR(10 g) = 0.443 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.296 mW/g



0 dB = 1.300mW/g = 2.28 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

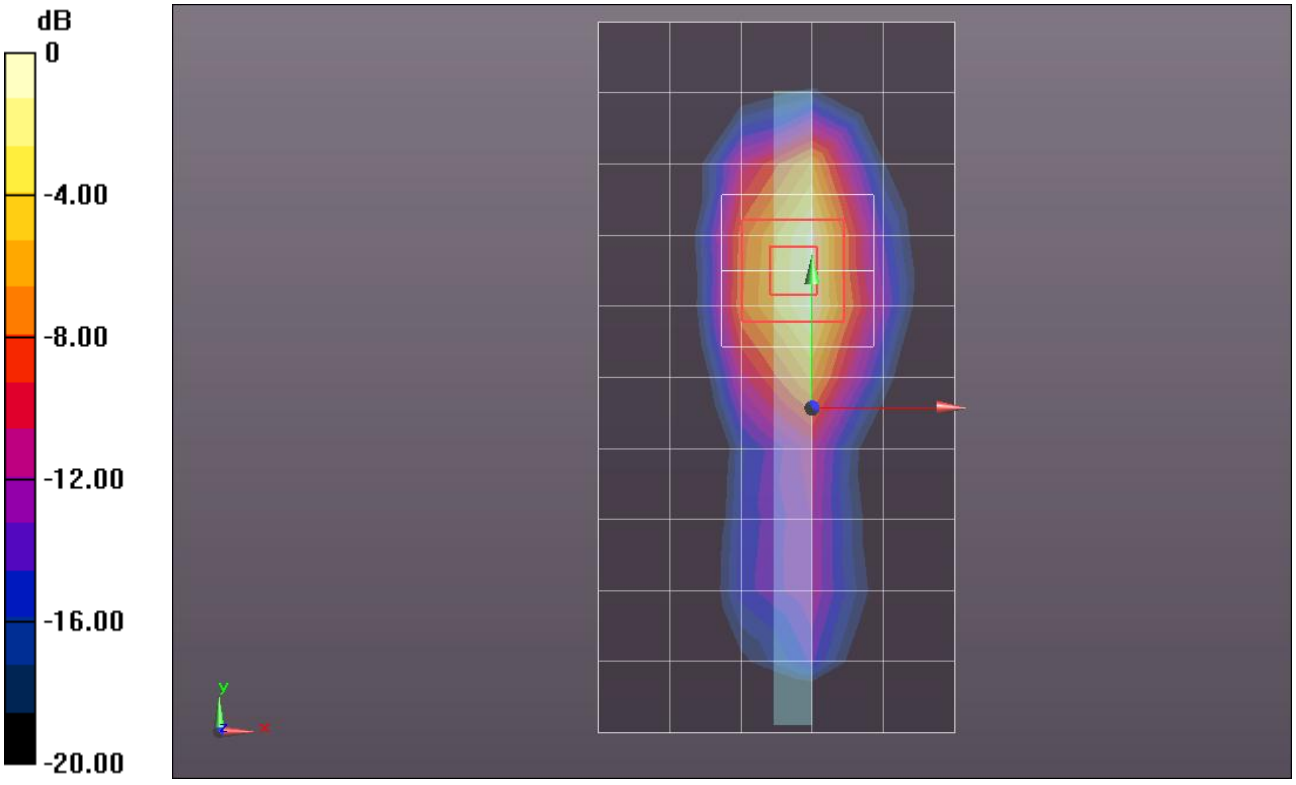
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.307 mW/g

Edge 1/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.243 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 2.1490
SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.537 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.585 mW/g



0 dB = 1.590mW/g = 4.03 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

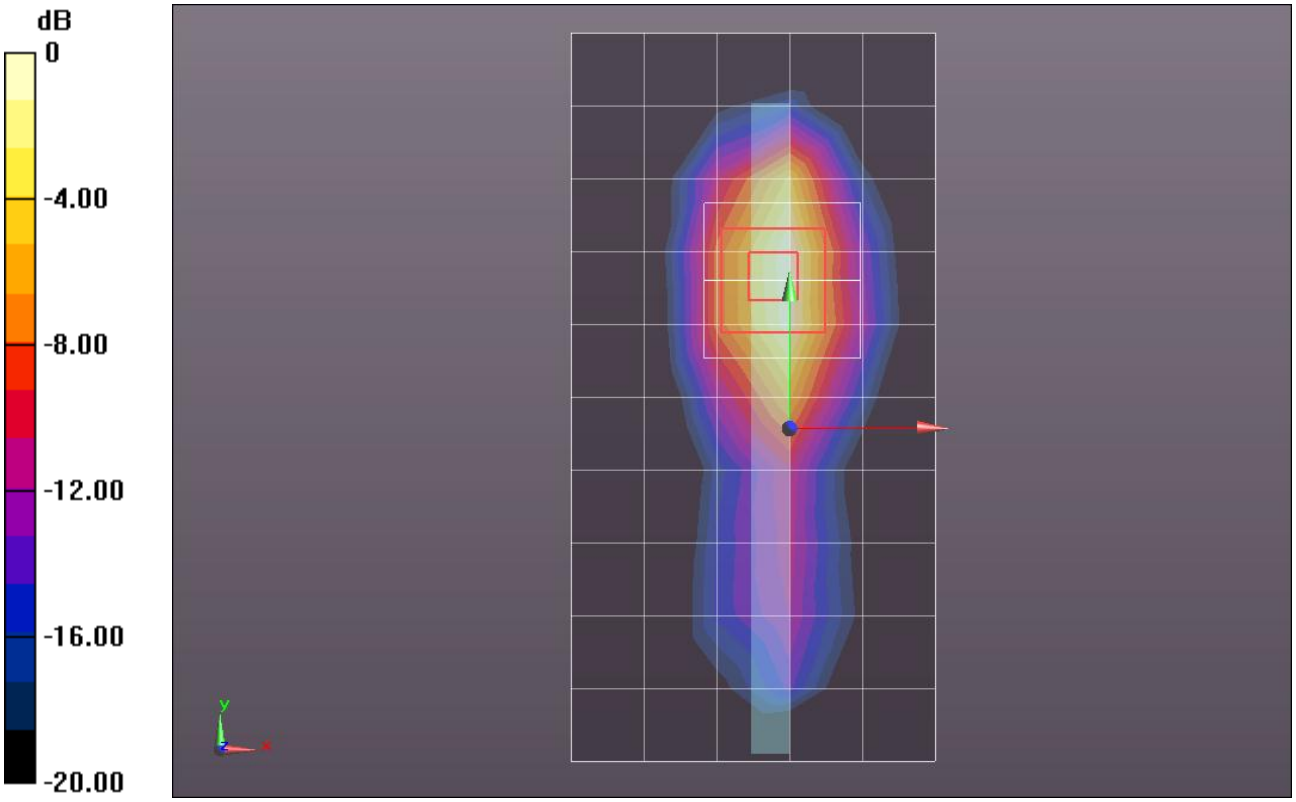
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.552 mW/g

Edge 1/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.903 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 2.2020
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.547 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.550 mW/g



0 dB = 1.550mW/g = 3.81 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

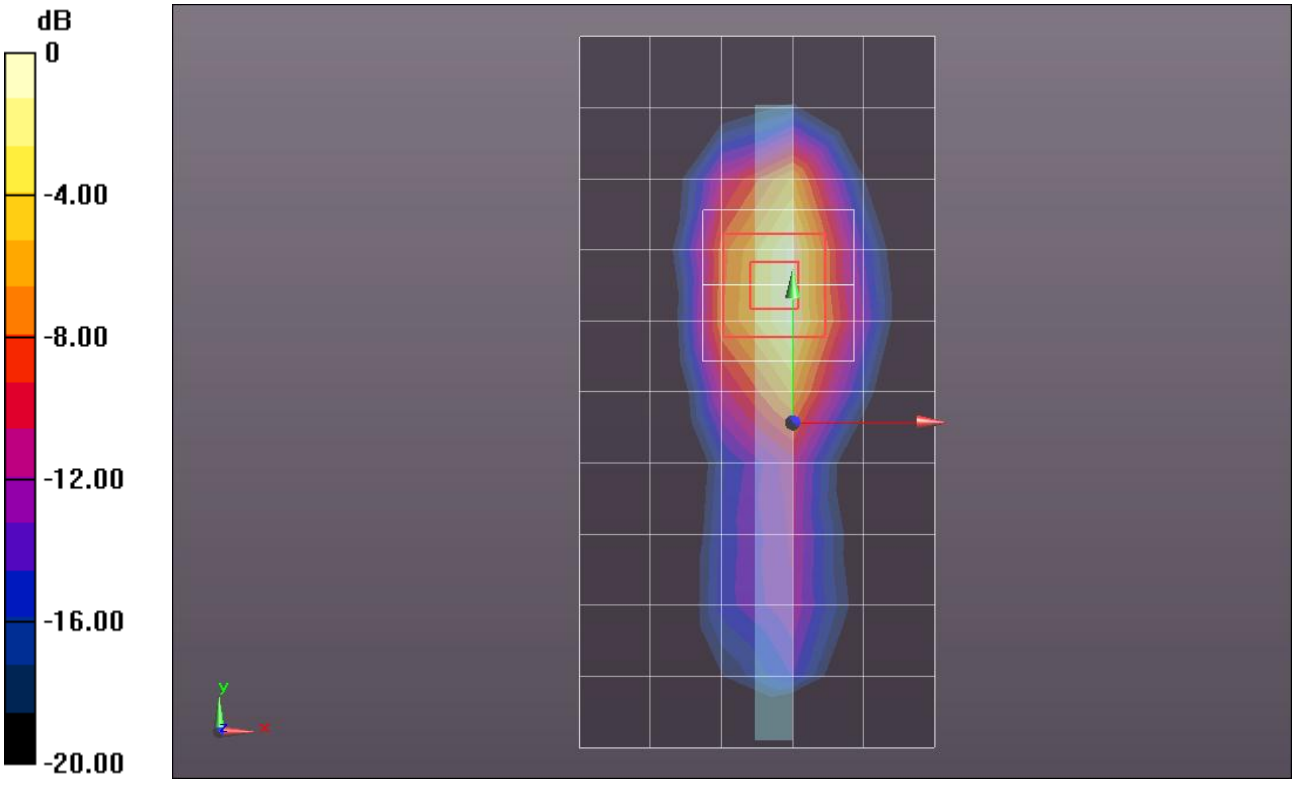
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.290 mW/g

Edge 1/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.066 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.1310
SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.530 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.557 mW/g



0 dB = 1.560mW/g = 3.86 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

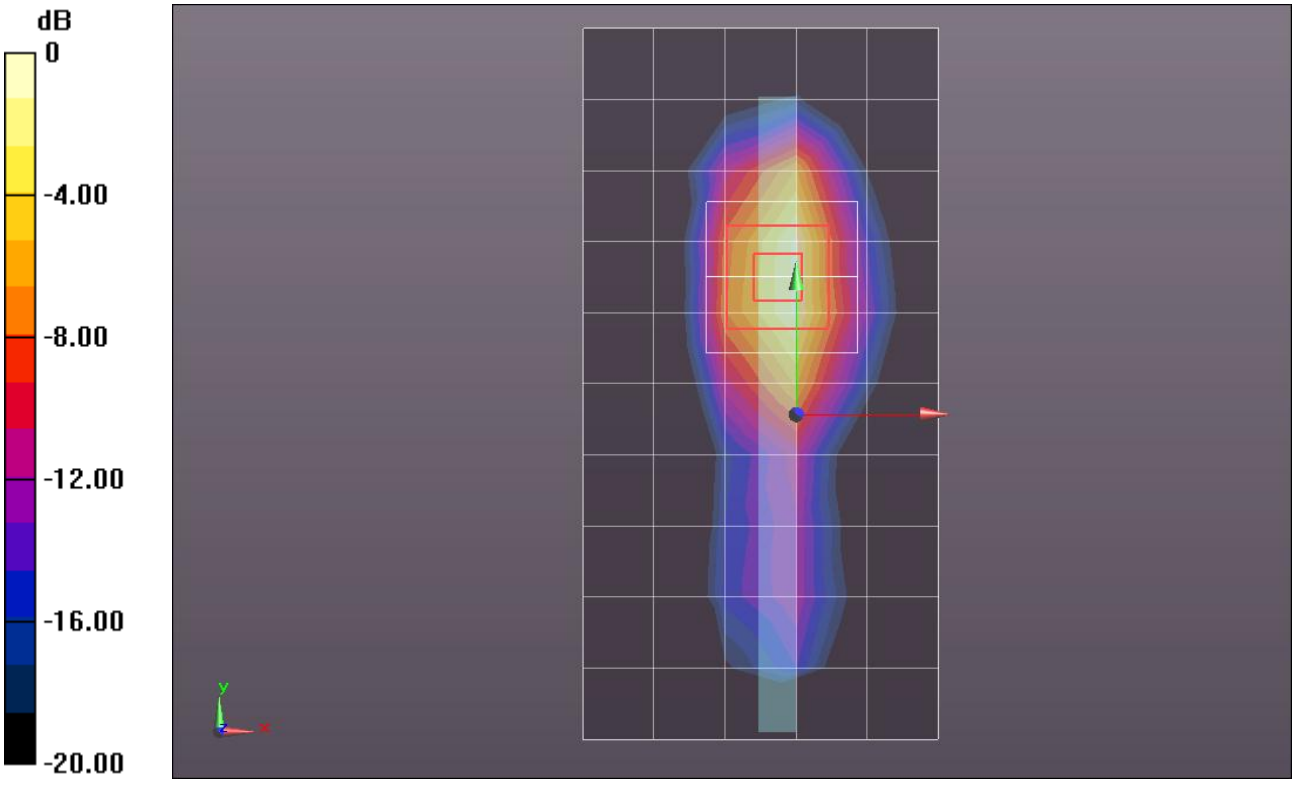
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.324 mW/g

Edge 1/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.039 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.2110
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.552 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.616 mW/g



0 dB = 1.620mW/g = 4.19 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

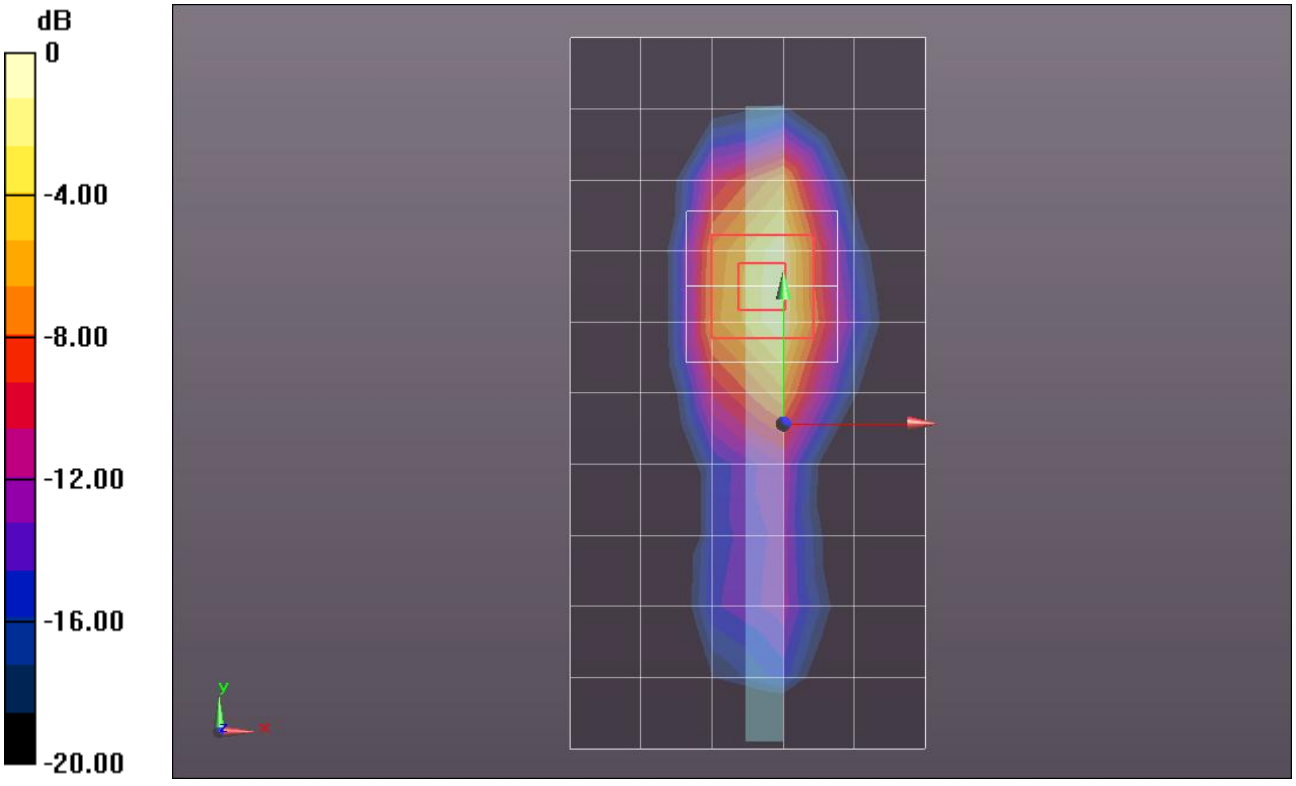
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.107 mW/g

Edge 1/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.637 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 2.0100
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.496 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.479 mW/g



0 dB = 1.480mW/g = 3.41 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/13/2012

LTE Band 4

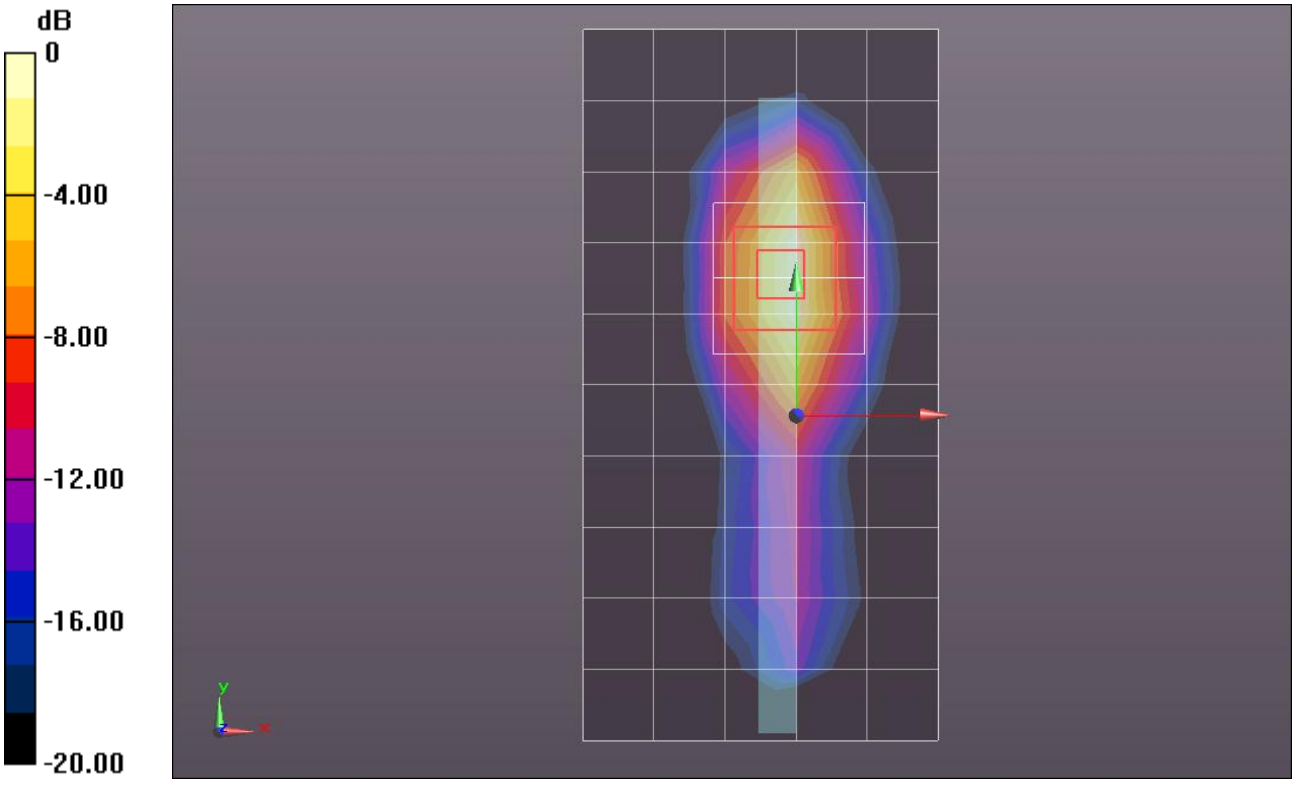
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.443 mho/m; ε_r = 53.354; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.371 mW/g

Edge 1/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.255 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.1120
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.521 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.506 mW/g



0 dB = 1.510mW/g = 3.58 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

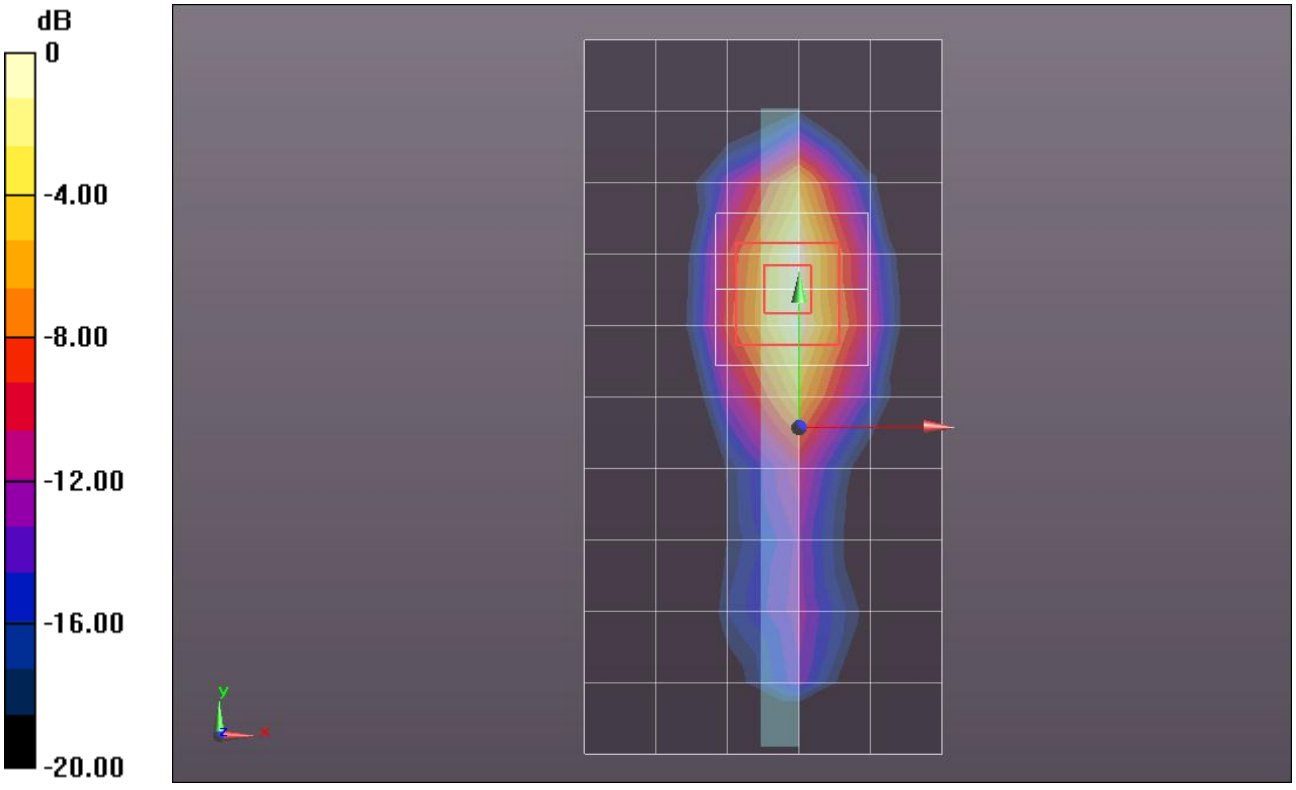
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.486 mho/m; ε_r = 52.814; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 1,99 _Ch 20300 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.161 mW/g

Edge 1/QPSK_RB# 1,99 _Ch 20300 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.323 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.6660
SAR(1 g) = 0.857 mW/g; SAR(10 g) = 0.400 mW/g
Maximum value of SAR (measured) = 1.219 mW/g



0 dB = 1.220mW/g = 1.73 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

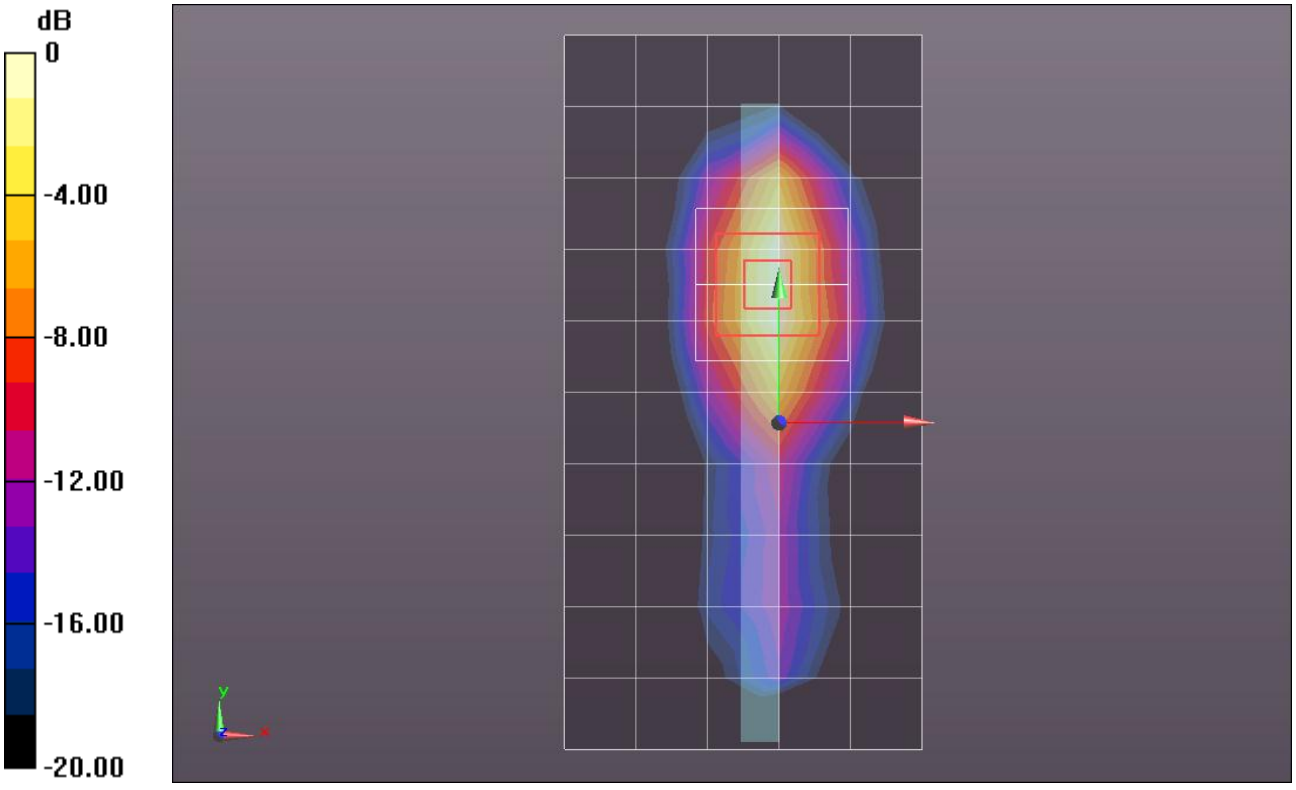
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.486 mho/m; ε_r = 52.814; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 50,0 _Ch 20300 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.184 mW/g

Edge 1/QPSK_RB# 50,0 _Ch 20300 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.933 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.6610
SAR(1 g) = 0.867 mW/g; SAR(10 g) = 0.408 mW/g
Maximum value of SAR (measured) = 1.221 mW/g



0 dB = 1.220mW/g = 1.73 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

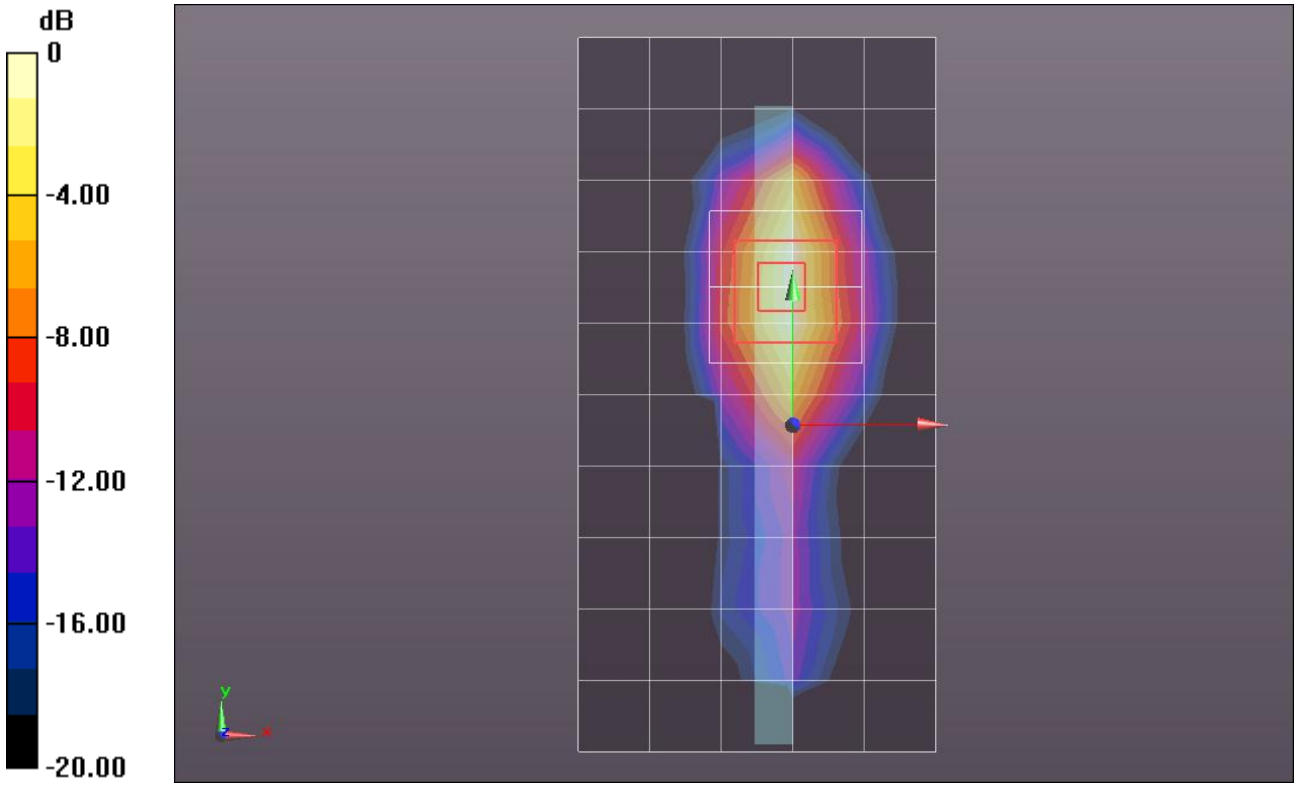
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.486 mho/m; ε_r = 52.814; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 100,0 _Ch 20300 w/ Pwr back-off (0 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.239 mW/g

Edge 1/QPSK_RB# 100,0 _Ch 20300 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.171 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.8060
SAR(1 g) = 0.935 mW/g; SAR(10 g) = 0.437 mW/g
Maximum value of SAR (measured) = 1.326 mW/g



0 dB = 1.330mW/g = 2.48 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

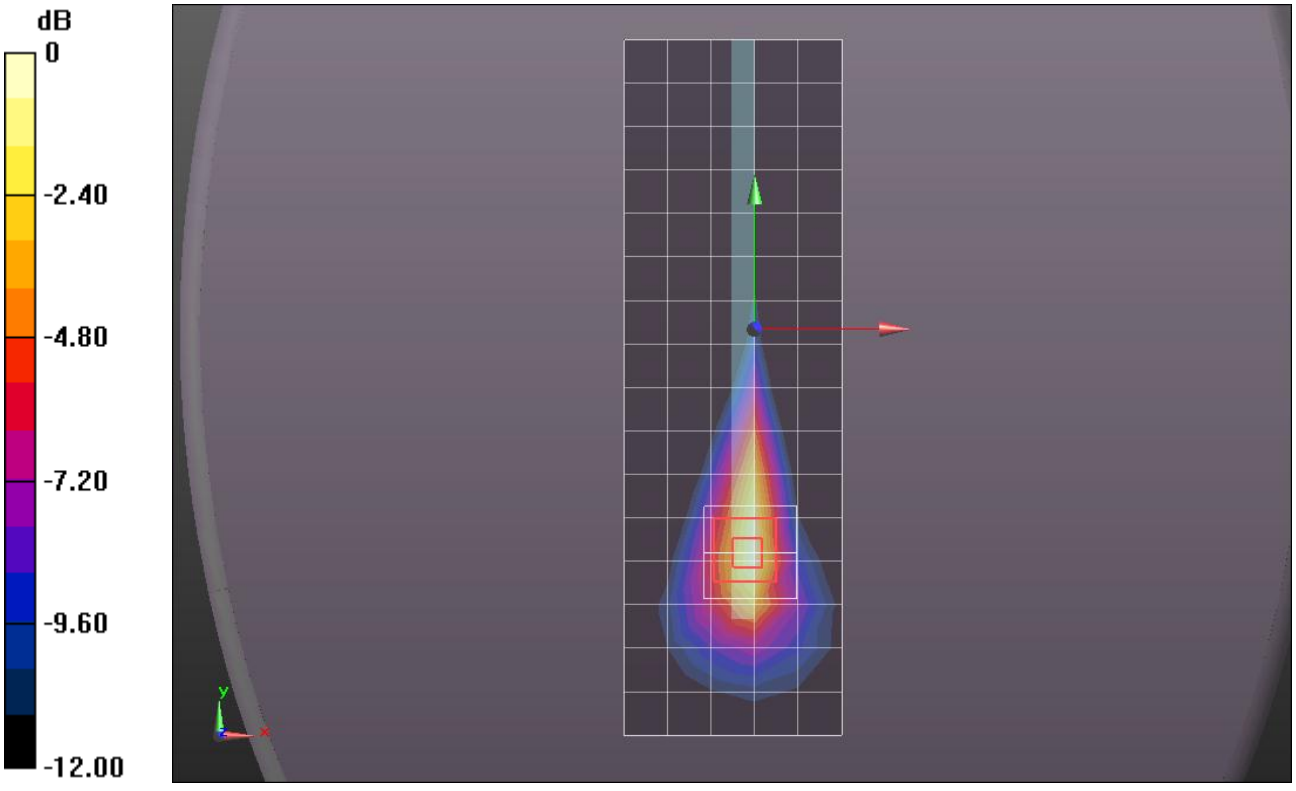
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.472 mho/m; ε_r = 52.856; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x17x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.831 mW/g

Edge 2/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.472 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.1610
SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.280 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.837 mW/g



0 dB = 0.840mW/g = -1.51 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

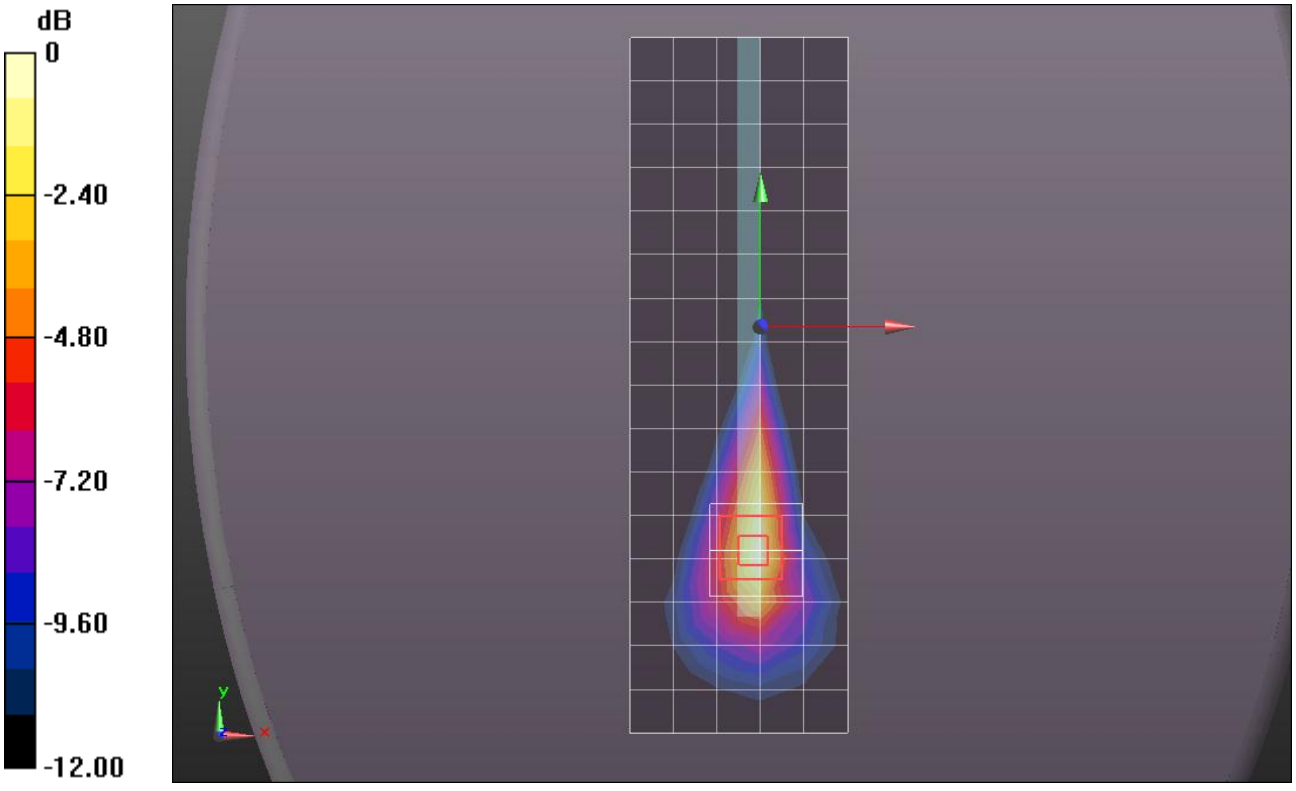
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.472 mho/m; ε_r = 52.856; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x17x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.707 mW/g

Edge 2/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.713 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.0020
SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.240 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.722 mW/g



0 dB = 0.720mW/g = -2.85 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

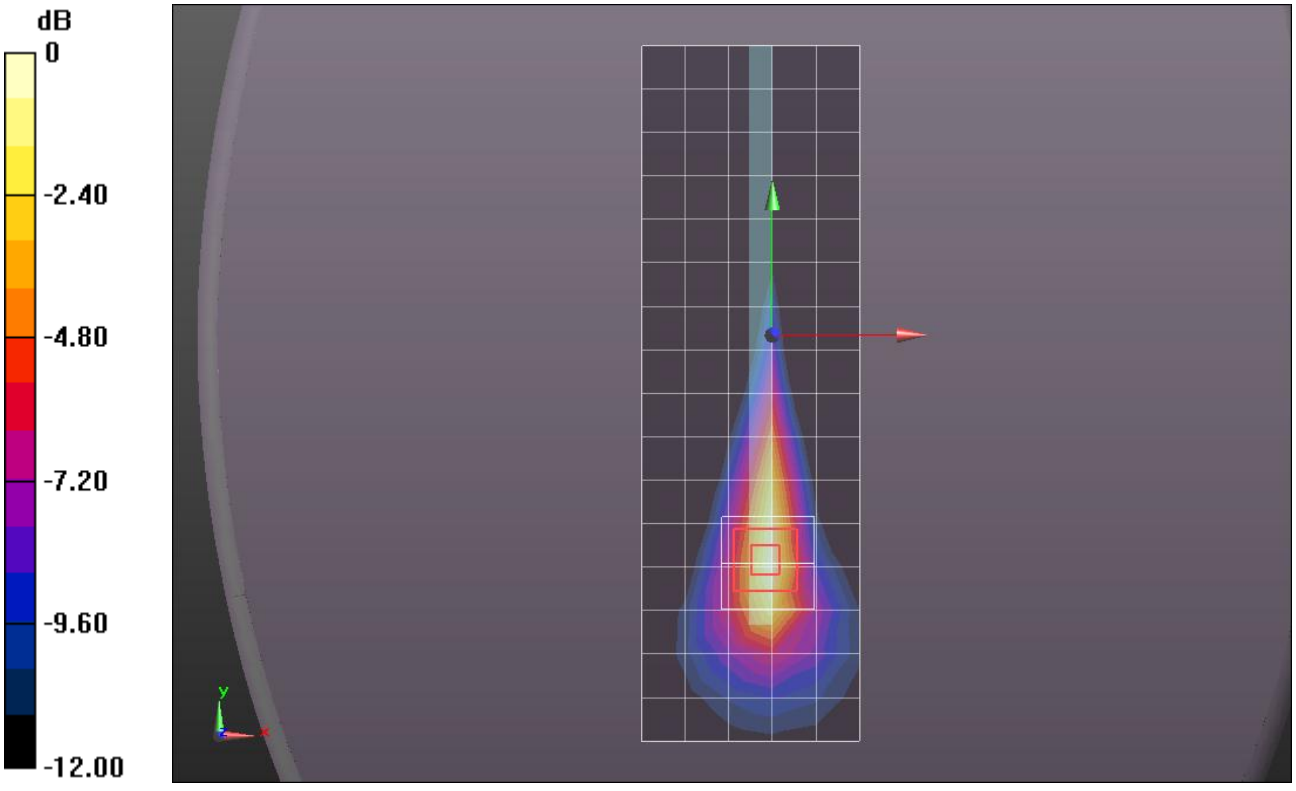
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.472 mho/m; ε_r = 52.856; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x17x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.746 mW/g

Edge 2/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.649 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.0170
SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.259 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.752 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

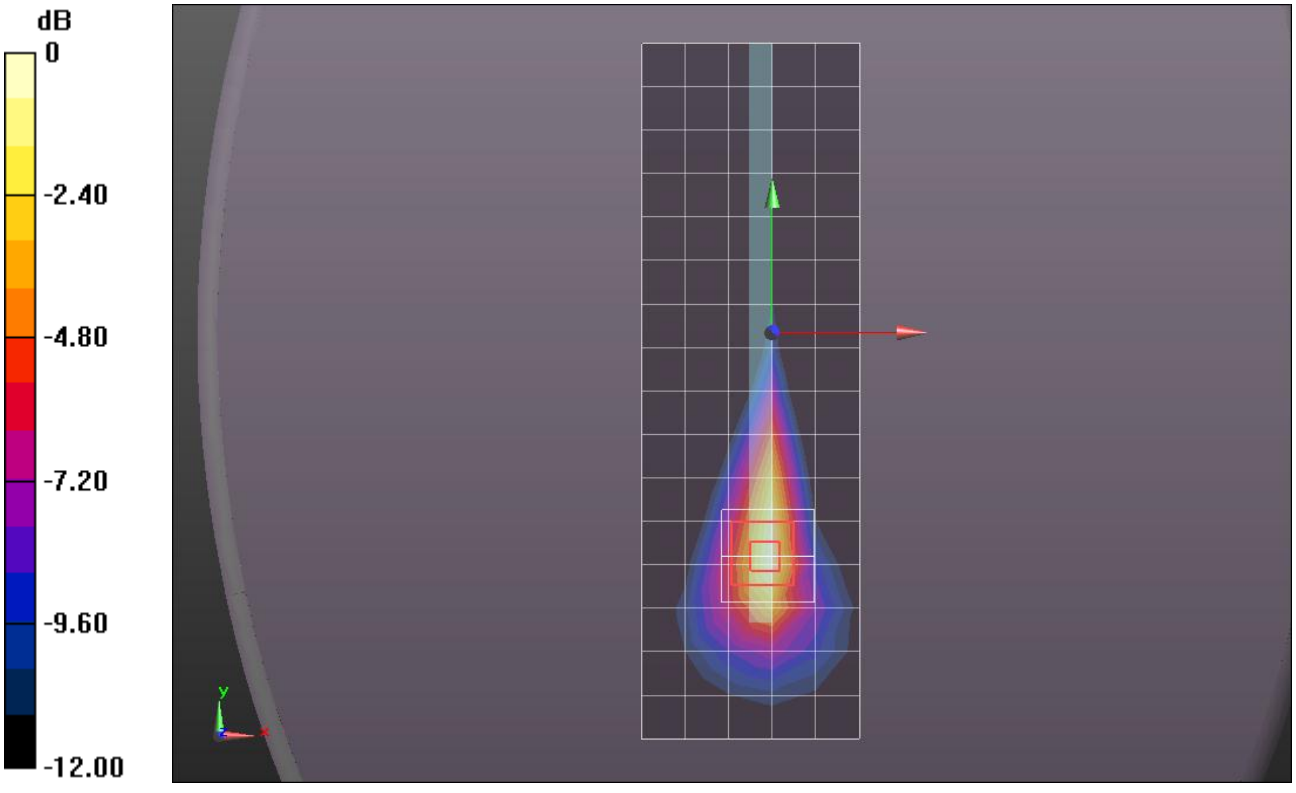
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.472 mho/m; ε_r = 52.856; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x17x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.835 mW/g

Edge 2/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.412 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.1730
SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.279 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.840 mW/g



0 dB = 0.840mW/g = -1.51 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

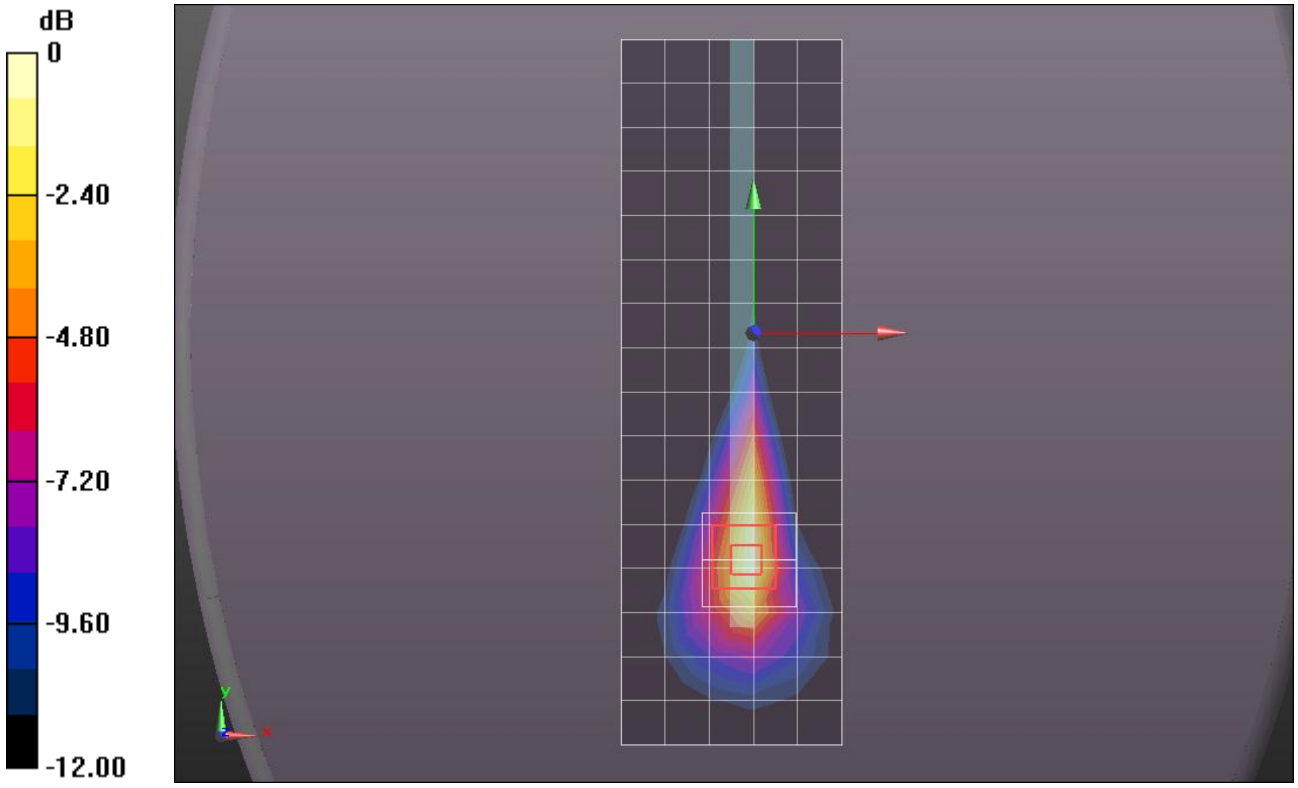
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.472 mho/m; ε_r = 52.856; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x17x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.738 mW/g

Edge 2/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.369 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.0590
SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.249 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.764 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

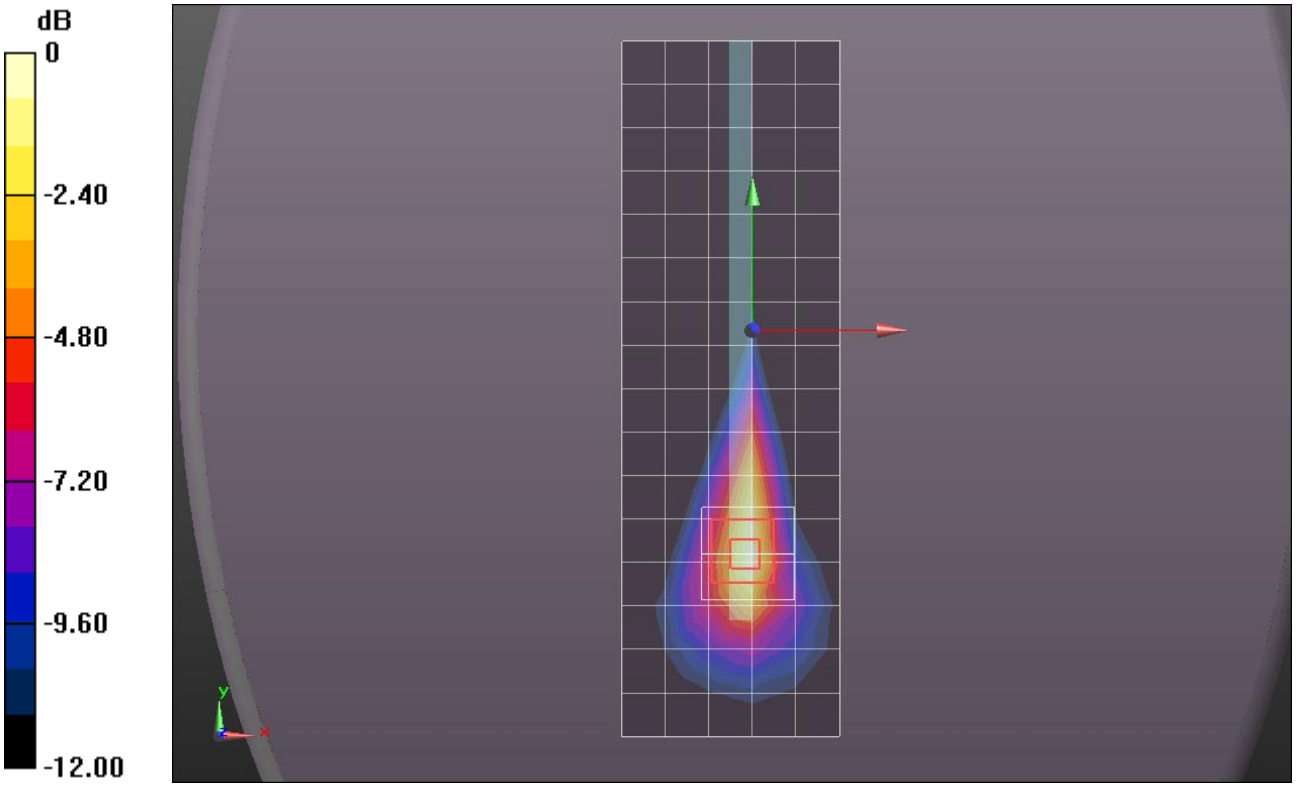
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.472 mho/m; ε_r = 52.856; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x17x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.641 mW/g

Edge 2/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.636 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.8990
SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.213 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.647 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/14/2012

LTE Band 4

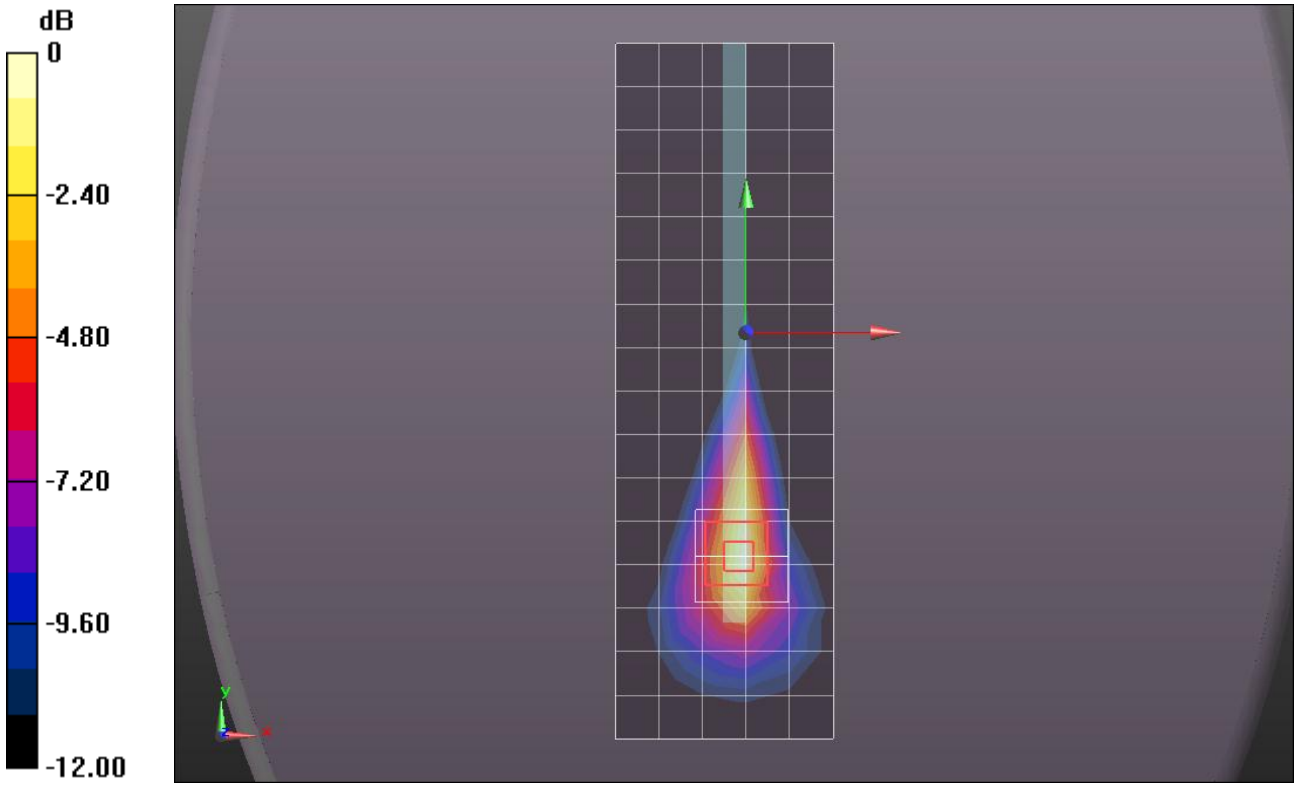
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.472 mho/m; ε_r = 52.856; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x17x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.746 mW/g

Edge 2/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.384 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.0440
SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.251 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.749 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

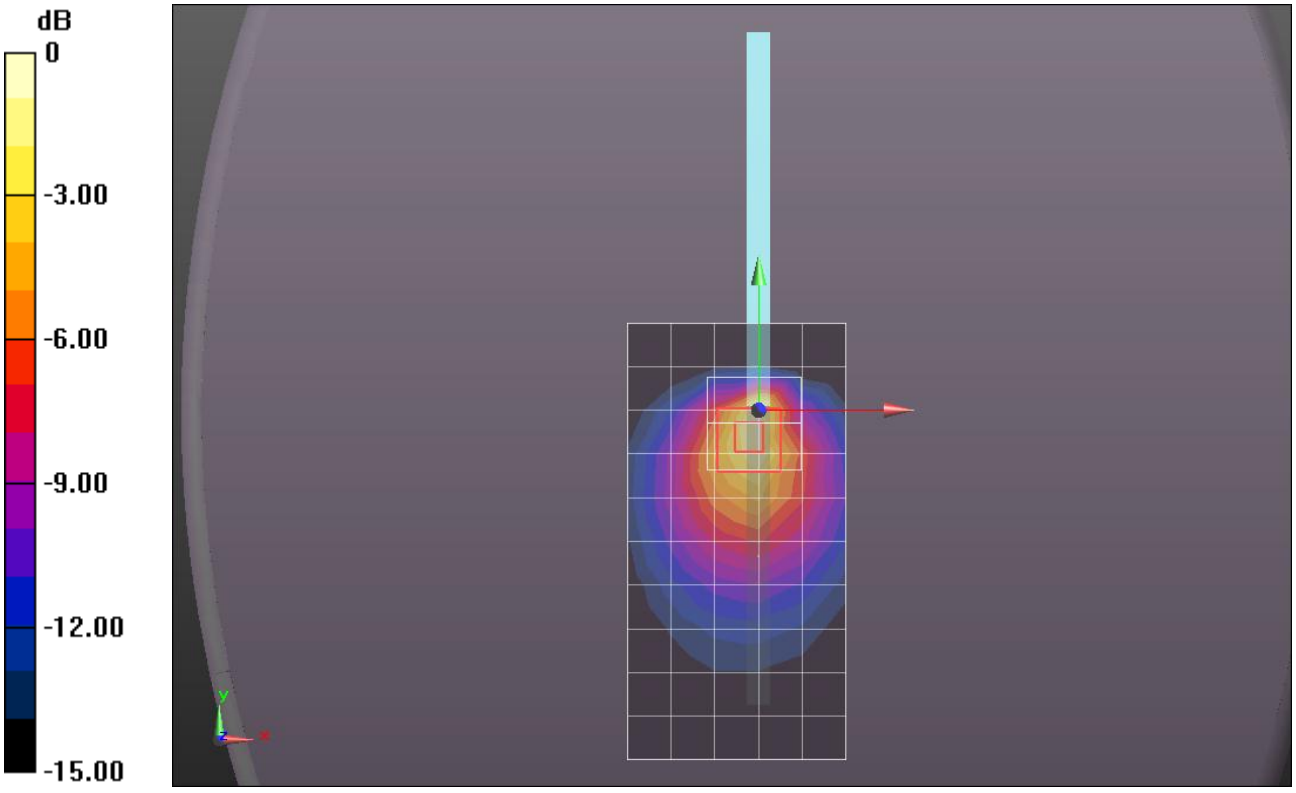
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.497 mho/m; ε_r = 53.338; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 99_Ch 20050 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.040 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 99_Ch 20050 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.327 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.6930
SAR(1 g) = 0.829 mW/g; SAR(10 g) = 0.417 mW/g
Maximum value of SAR (measured) = 1.179 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

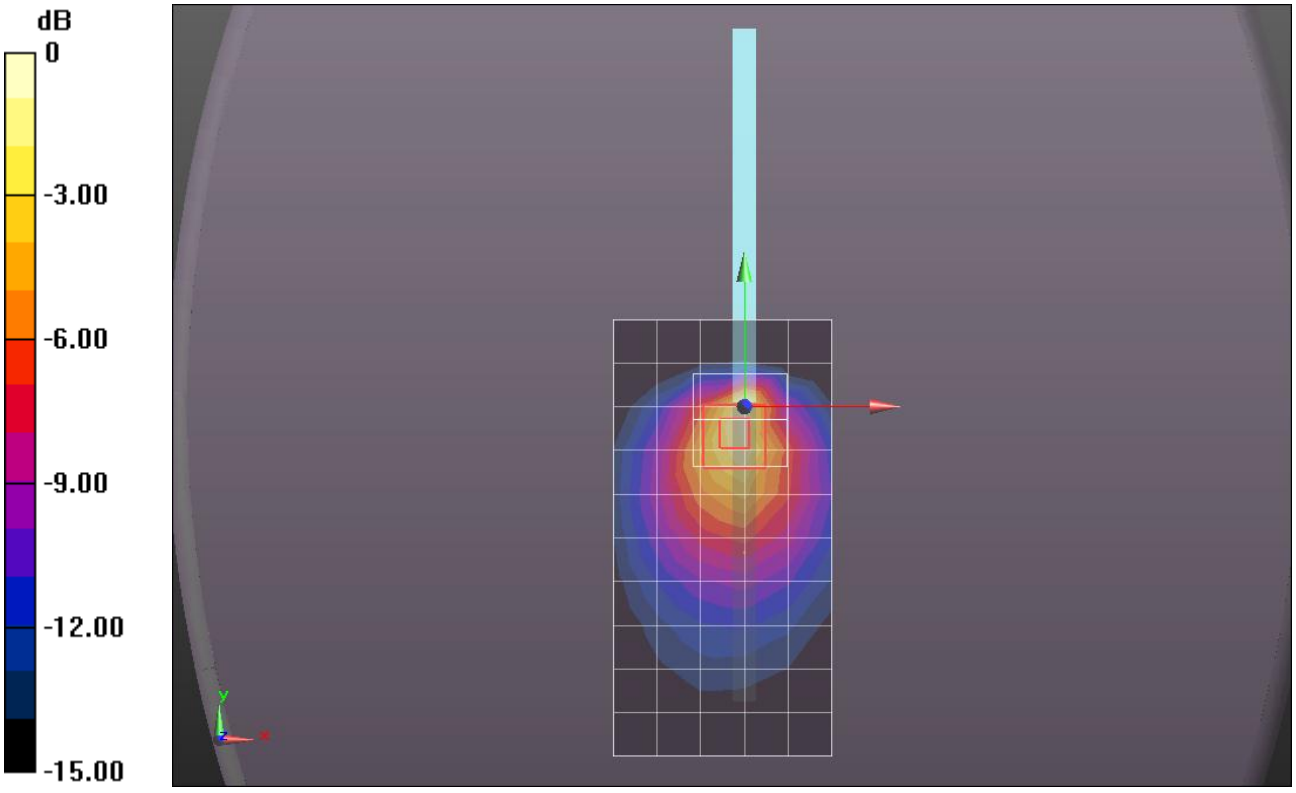
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.497 mho/m; ε_r = 53.338; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 24_Ch 20050 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.786 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 24_Ch 20050 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.888 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.2750
SAR(1 g) = 0.621 mW/g; SAR(10 g) = 0.312 mW/g
Maximum value of SAR (measured) = 0.884 mW/g



0 dB = 0.880mW/g = -1.11 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

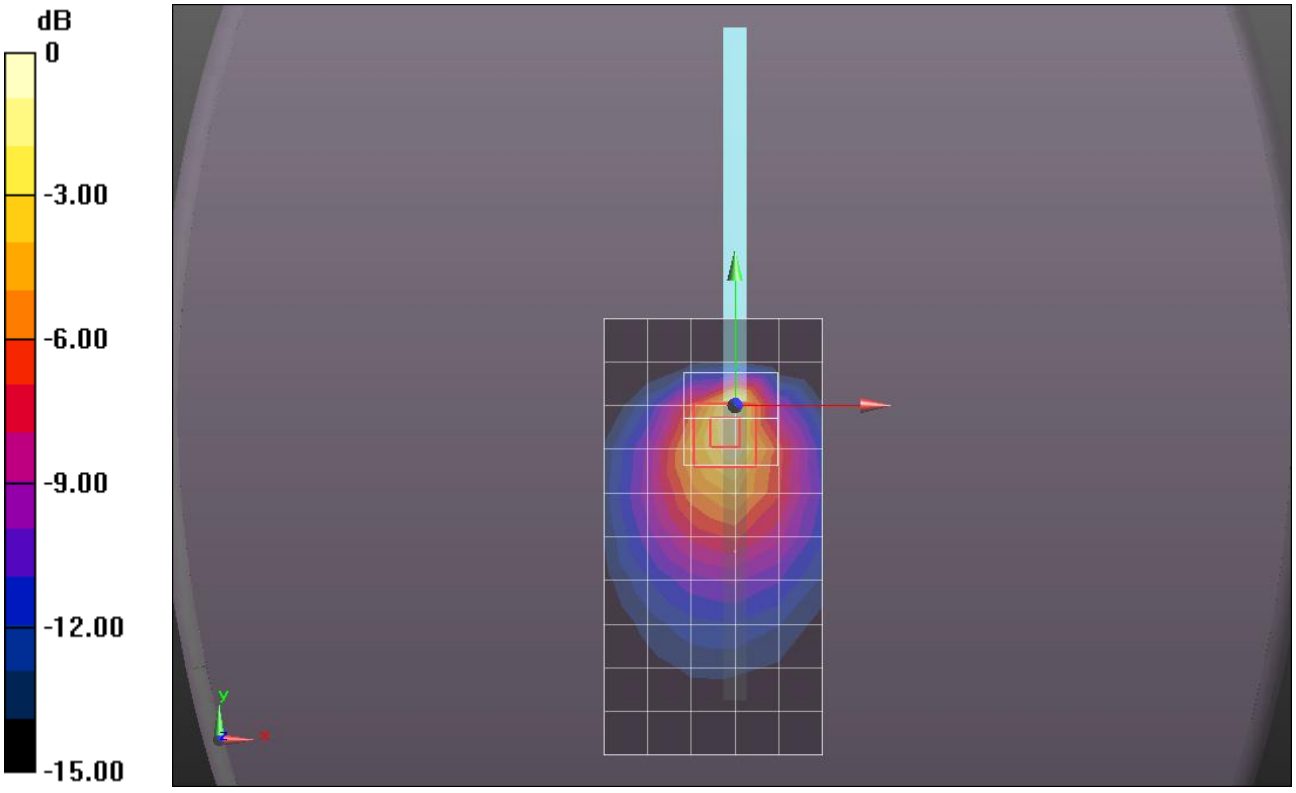
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.497 mho/m; ε_r = 53.338; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 100, 0_Ch 20050 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.786 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 100, 0_Ch 20050 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.138 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.2960
SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.317 mW/g
Maximum value of SAR (measured) = 0.897 mW/g



0 dB = 0.900mW/g = -0.92 dB mW/g

LTE Band 4

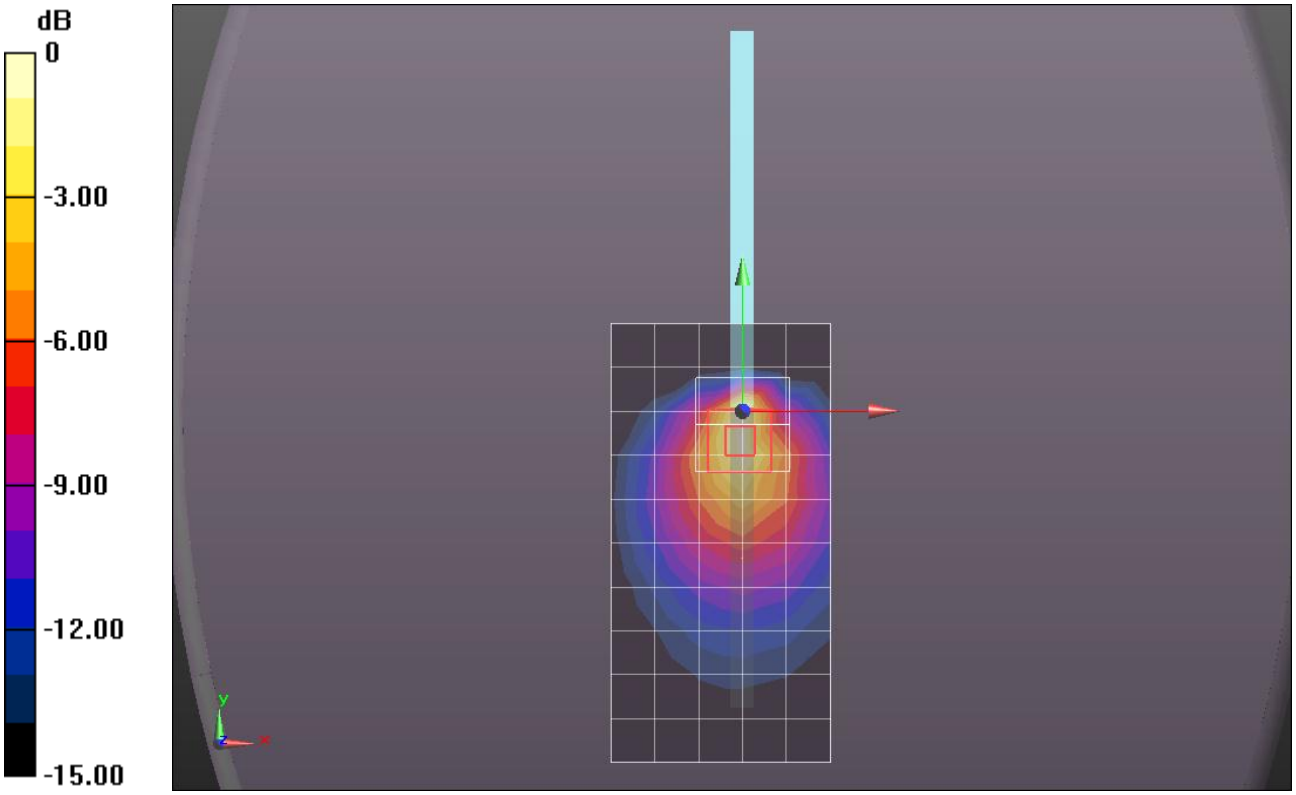
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.032 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.433 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.5620
SAR(1 g) = 0.744 mW/g; SAR(10 g) = 0.366 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.085 mW/g



0 dB = 1.080mW/g = 0.67 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

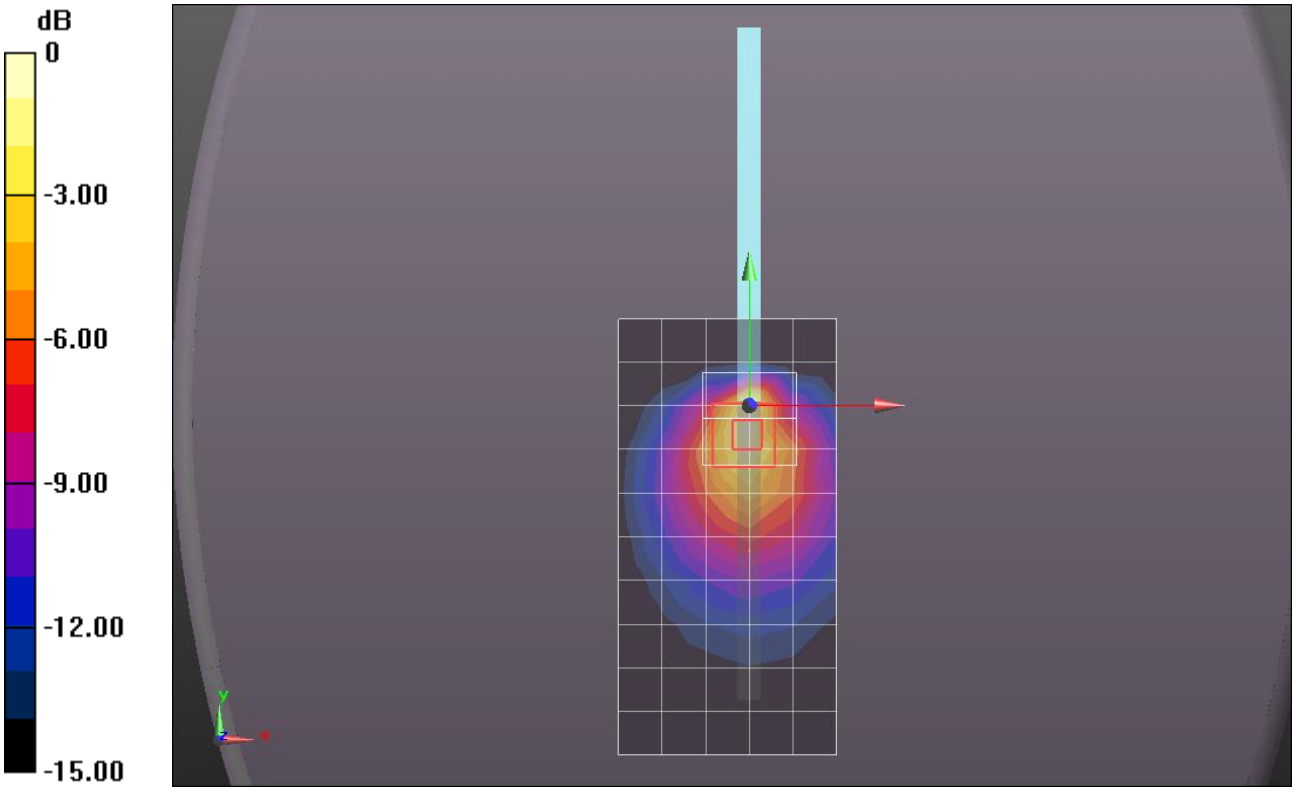
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.132 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.847 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.7610
SAR(1 g) = 0.837 mW/g; SAR(10 g) = 0.411 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.224 mW/g



0 dB = 1.220mW/g = 1.73 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

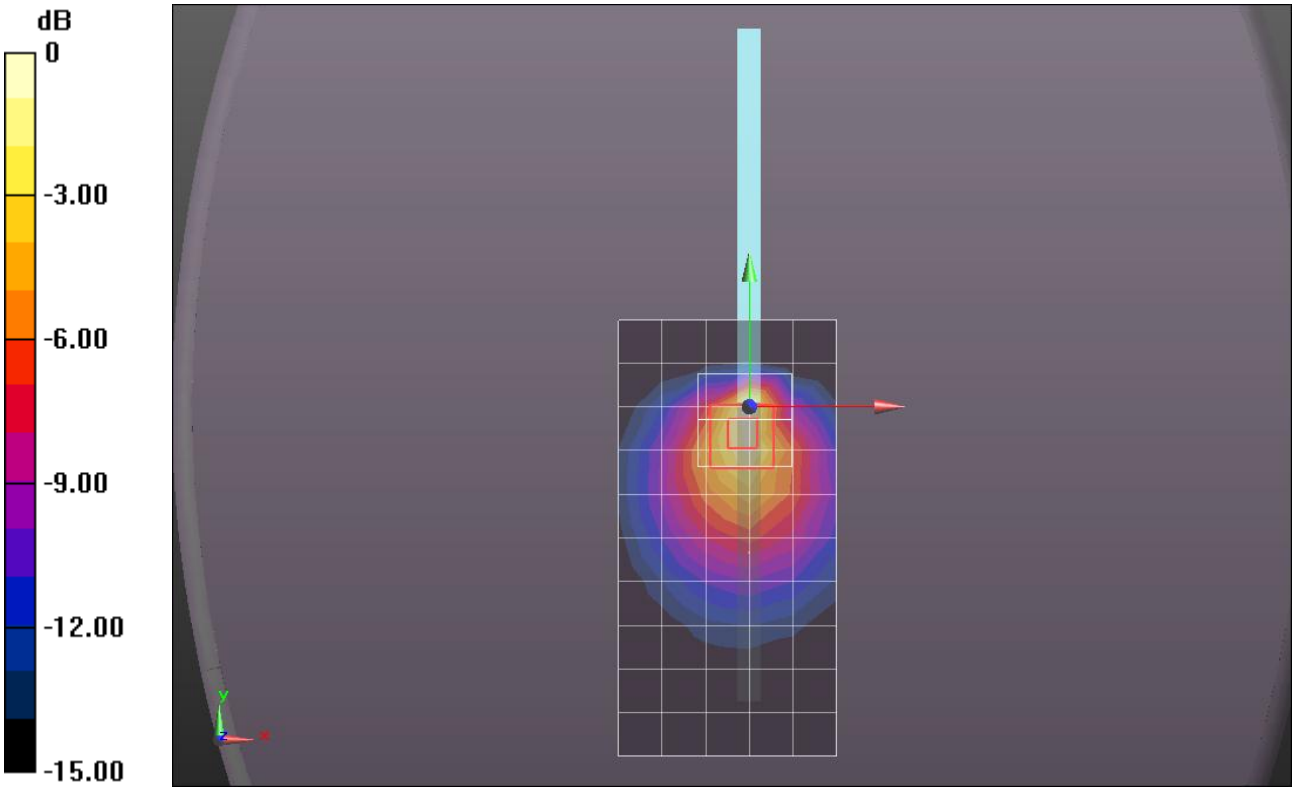
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.013 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.655 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.4700
SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.346 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.025 mW/g



0 dB = 1.030mW/g = 0.26 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

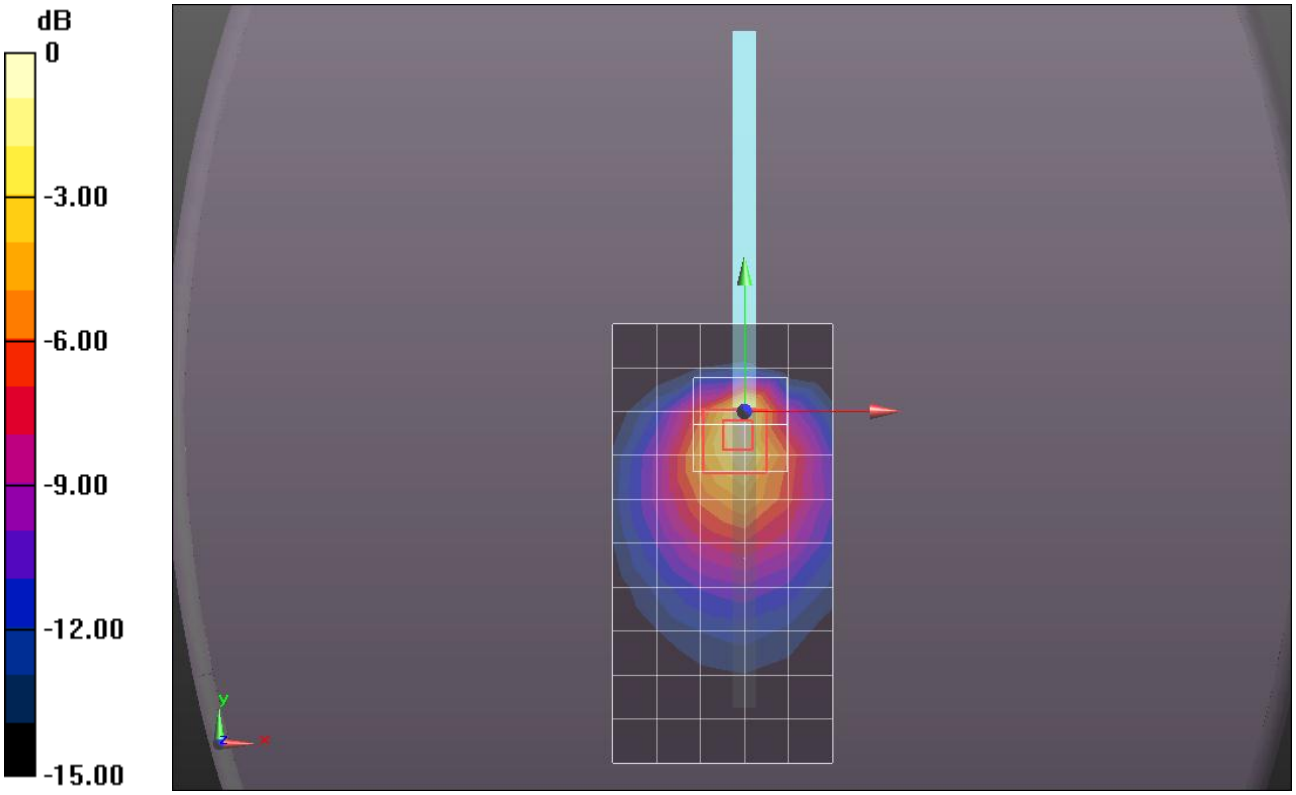
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.016 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.023 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.5430
SAR(1 g) = 0.755 mW/g; SAR(10 g) = 0.381 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.088 mW/g



0 dB = 1.090mW/g = 0.75 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

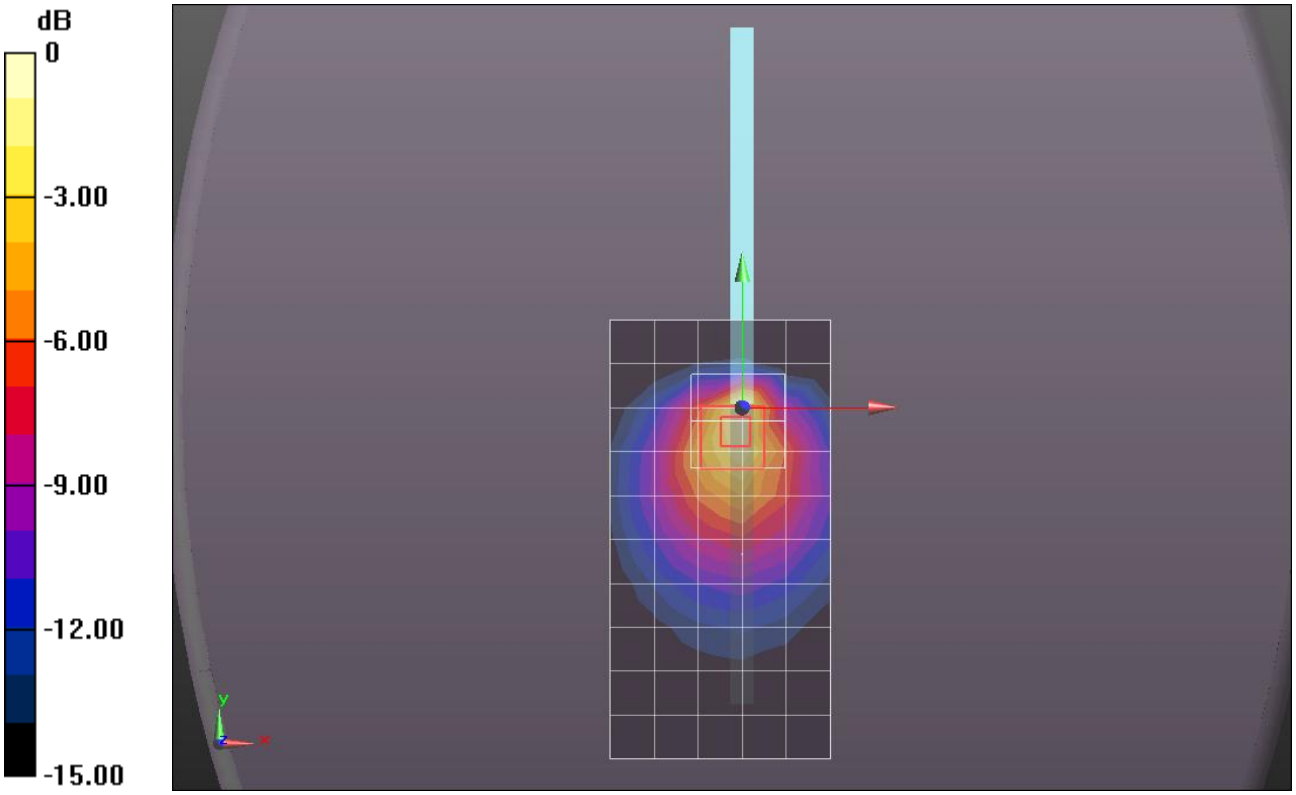
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.984 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.085 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.5610
SAR(1 g) = 0.764 mW/g; SAR(10 g) = 0.385 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.098 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

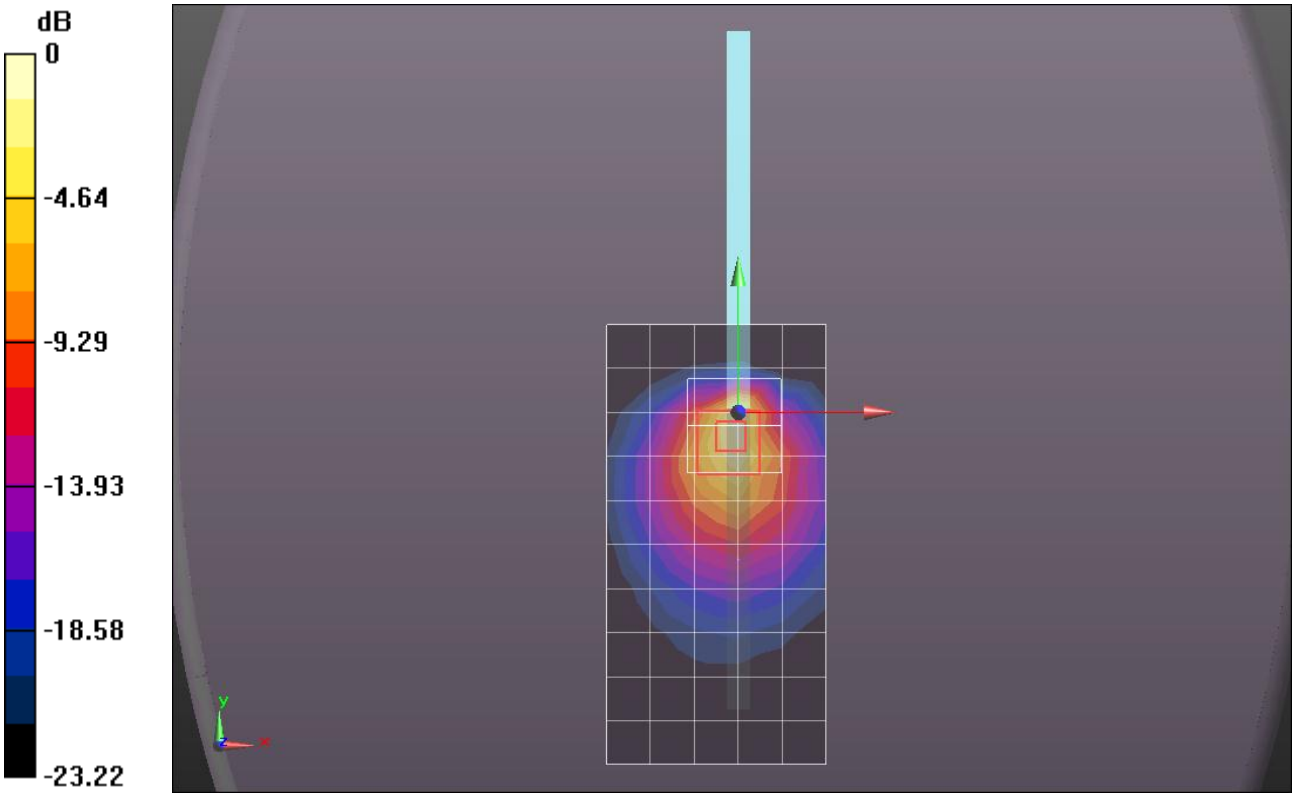
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.909 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.035 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.4310
SAR(1 g) = 0.702 mW/g; SAR(10 g) = 0.354 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.009 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

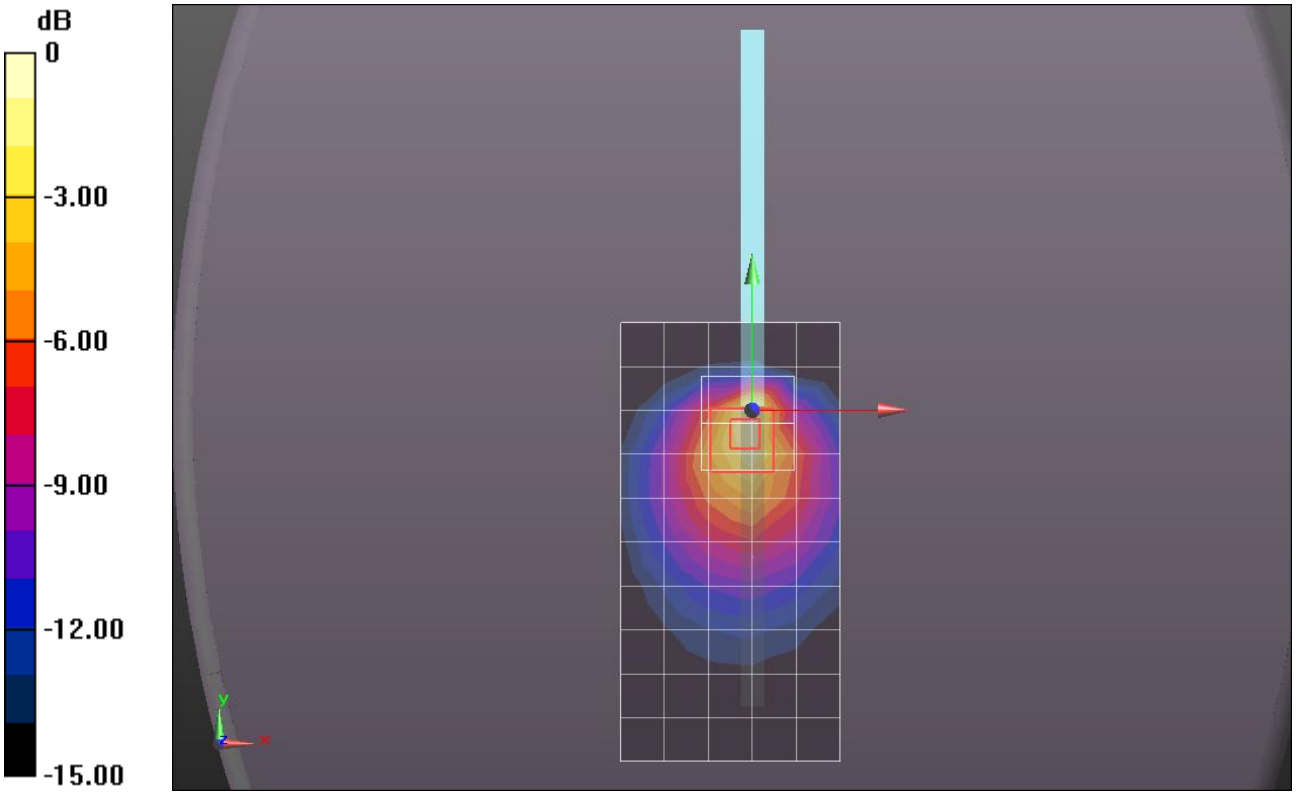
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.953 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.713 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.5110
SAR(1 g) = 0.740 mW/g; SAR(10 g) = 0.373 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
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 A Date: 9/17/2012

LTE Band 4

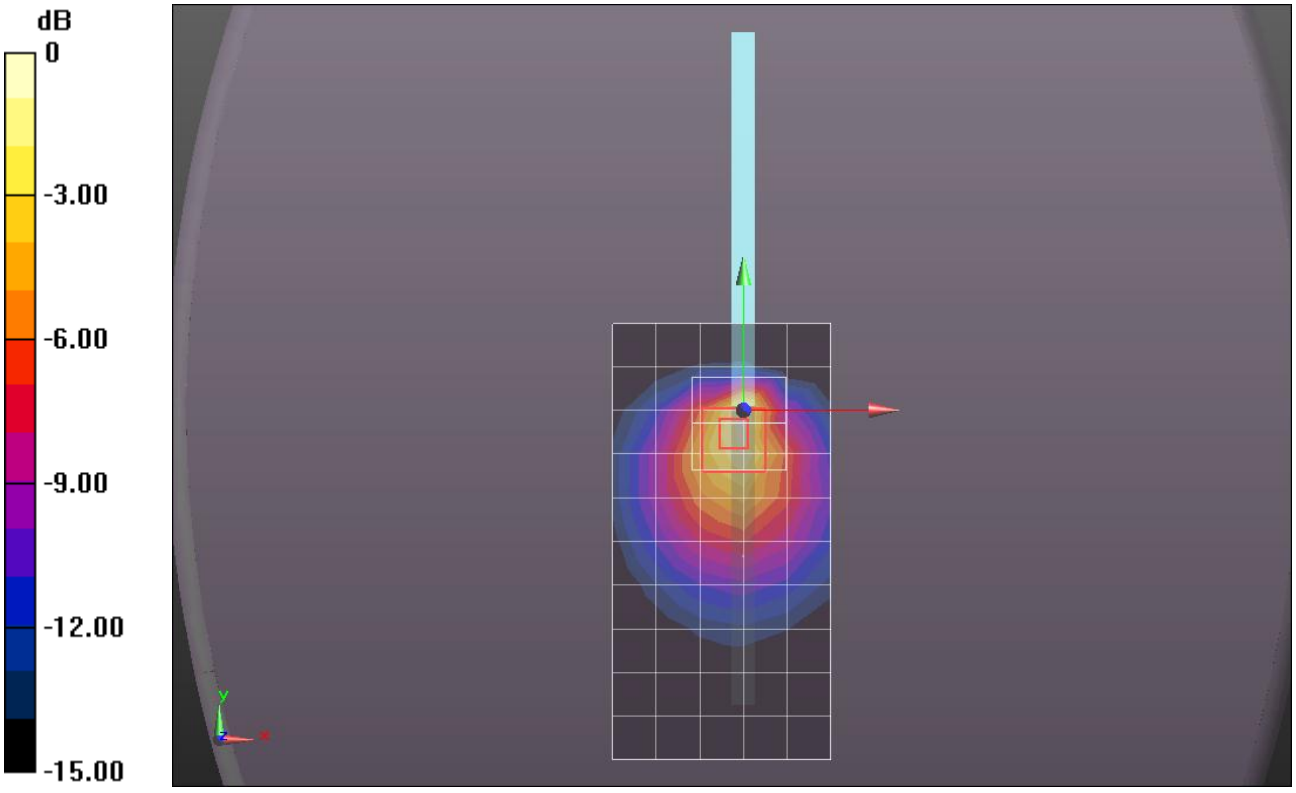
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.539 mho/m; ε_r = 53.308; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 99_Ch 20300 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.040 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 1, 99_Ch 20300 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.243 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.5580
SAR(1 g) = 0.766 mW/g; SAR(10 g) = 0.387 mW/g
Maximum value of SAR (measured) = 1.076 mW/g



0 dB = 1.080mW/g = 0.67 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

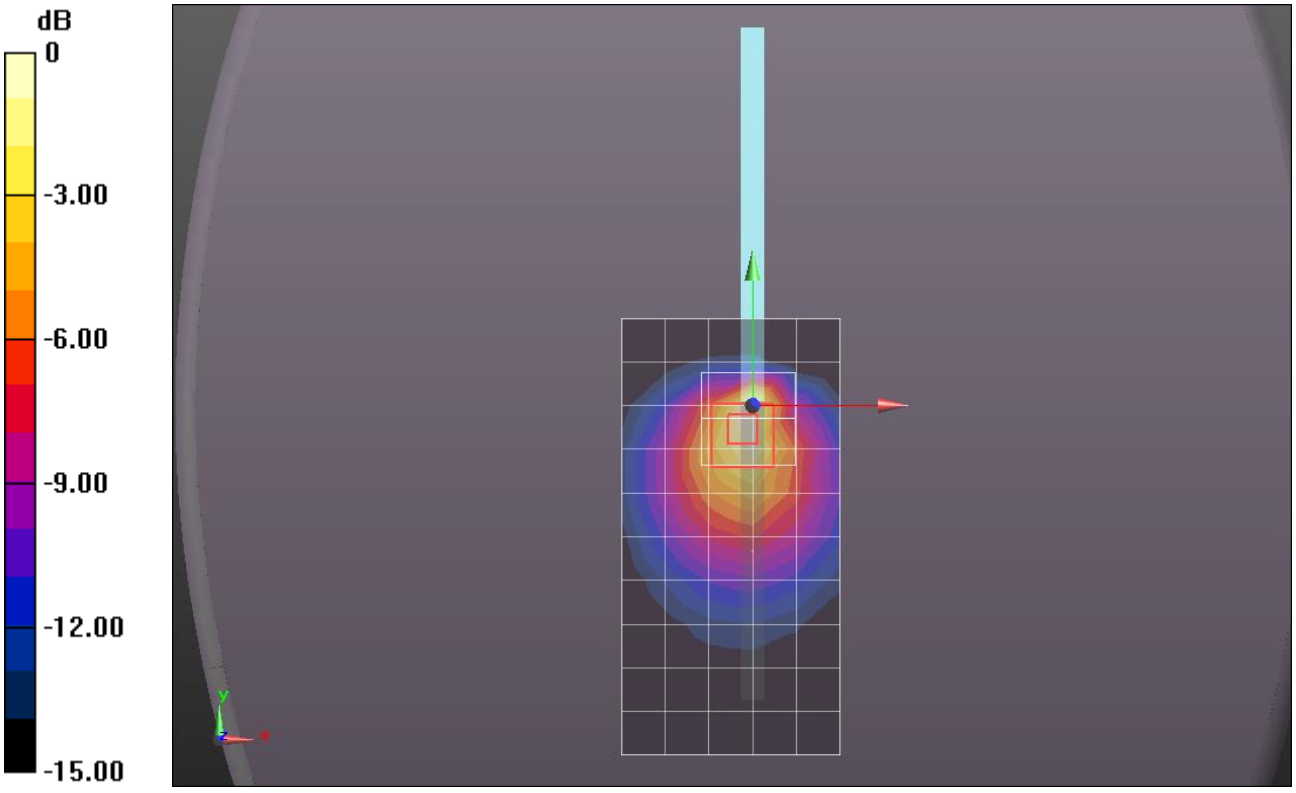
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.539 mho/m; ε_r = 53.308; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 0_Ch 20300 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.179 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 50, 0_Ch 20300 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.221 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.5150
SAR(1 g) = 0.746 mW/g; SAR(10 g) = 0.377 mW/g
Maximum value of SAR (measured) = 1.047 mW/g



0 dB = 1.050mW/g = 0.42 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

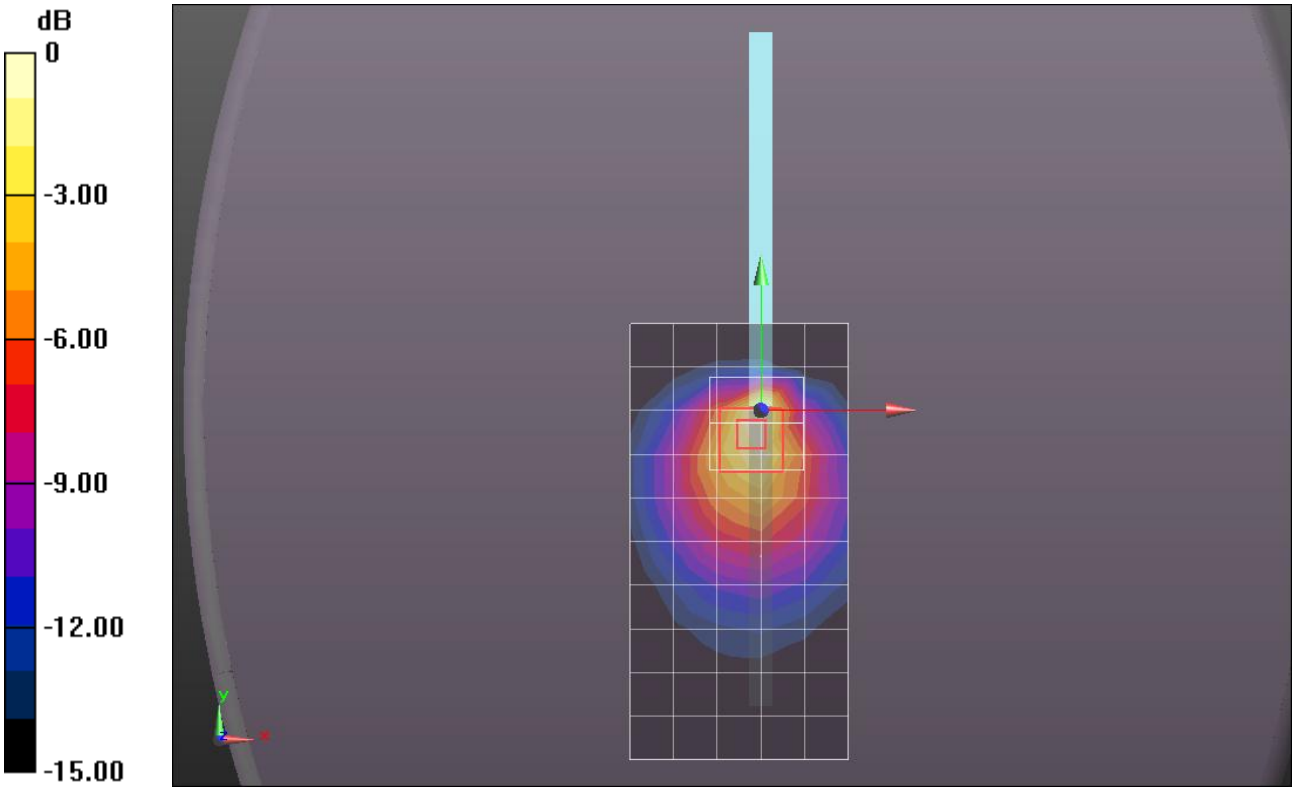
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.539 mho/m; ε_r = 53.308; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 100, 0_Ch 20300 w/ Pwr back-off (0 mm)/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.090 mW/g

Edge 1 and Edge 2 Tilt 40 deg/QPSK_RB# 100, 0_Ch 20300 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.391 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.4210
SAR(1 g) = 0.700 mW/g; SAR(10 g) = 0.354 mW/g
Maximum value of SAR (measured) = 0.982 mW/g



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

LTE Band 4

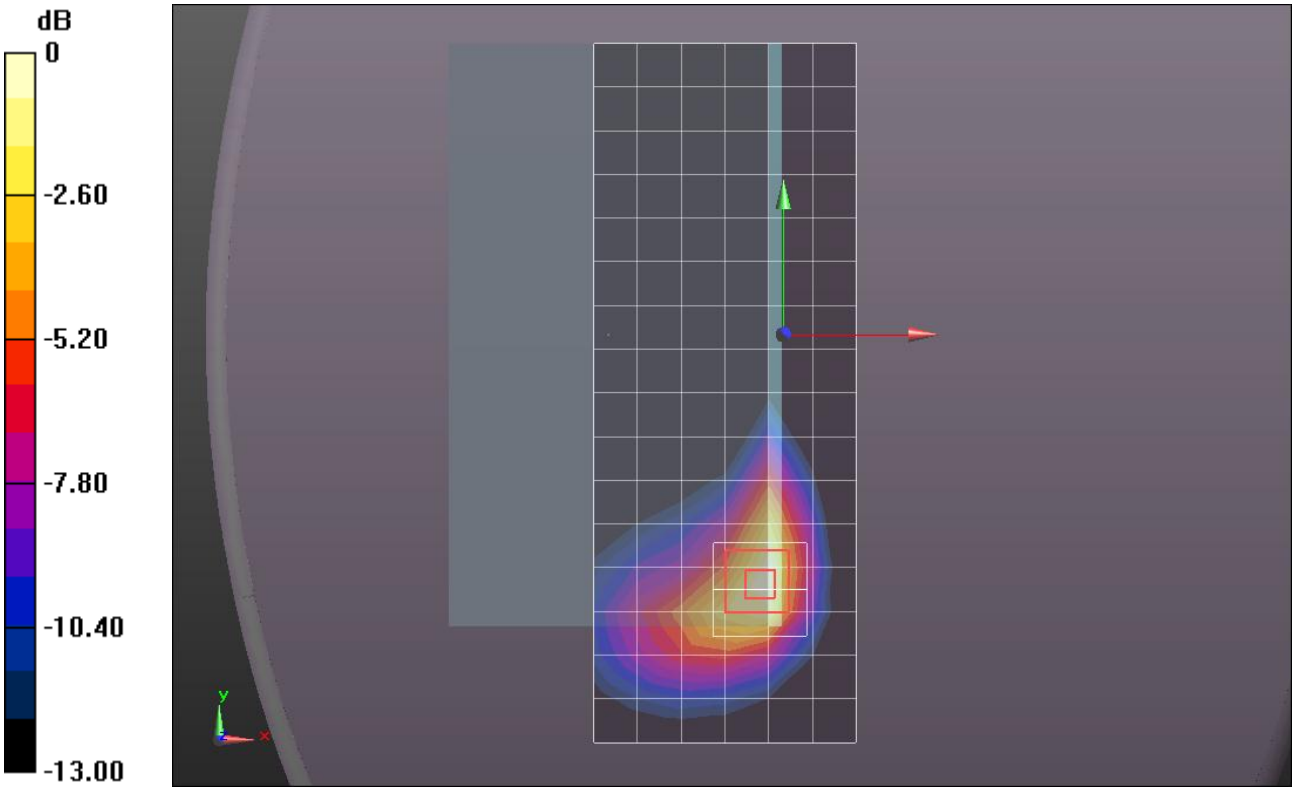
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2 Tilt 35 deg/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.963 mW/g

Edge 2 Tilt 35 deg/QPSK_RB# 1, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.707 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.3670
SAR(1 g) = 0.771 mW/g; SAR(10 g) = 0.413 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.998 mW/g



0 dB = 1.000mW/g = 0 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

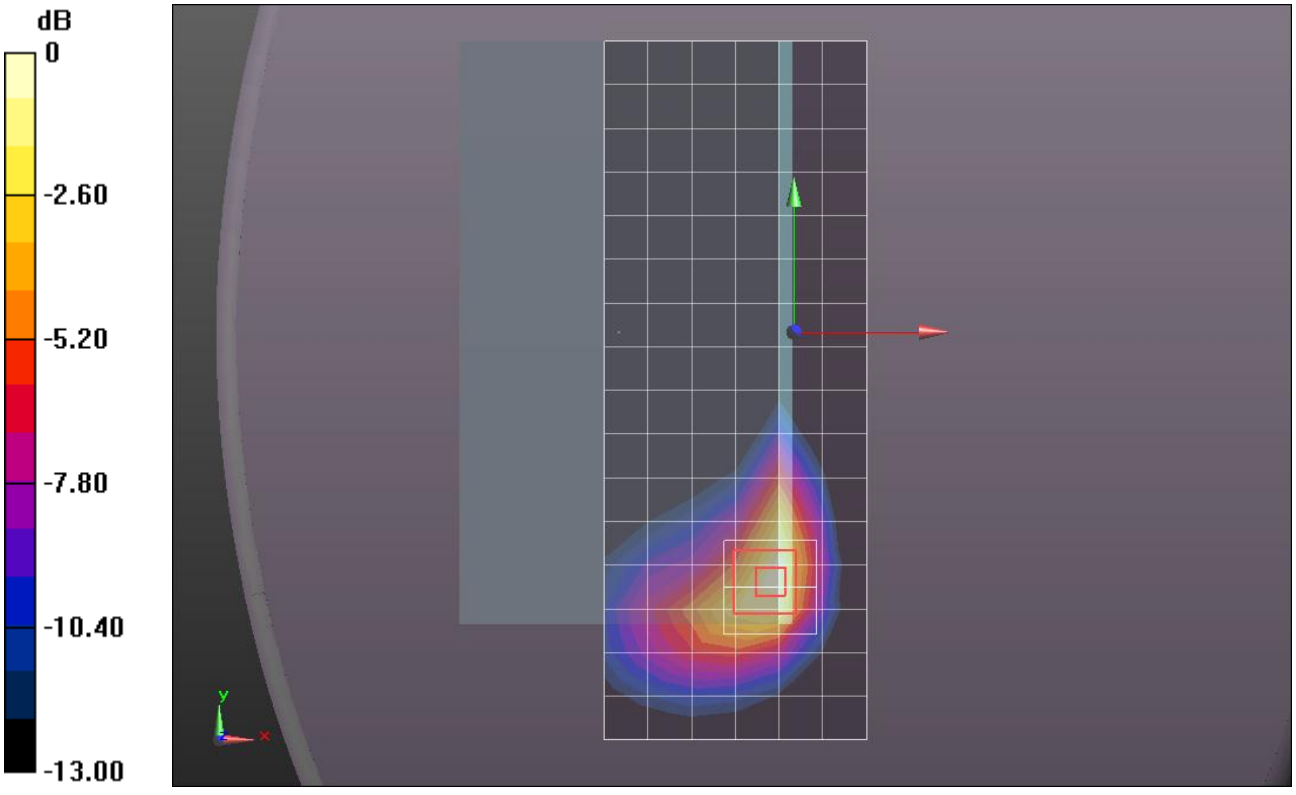
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2 Tilt 35 deg/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.849 mW/g

Edge 2 Tilt 35 deg/QPSK_RB# 1, 49_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.246 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.2160
SAR(1 g) = 0.687 mW/g; SAR(10 g) = 0.366 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
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 A Date: 9/17/2012

LTE Band 4

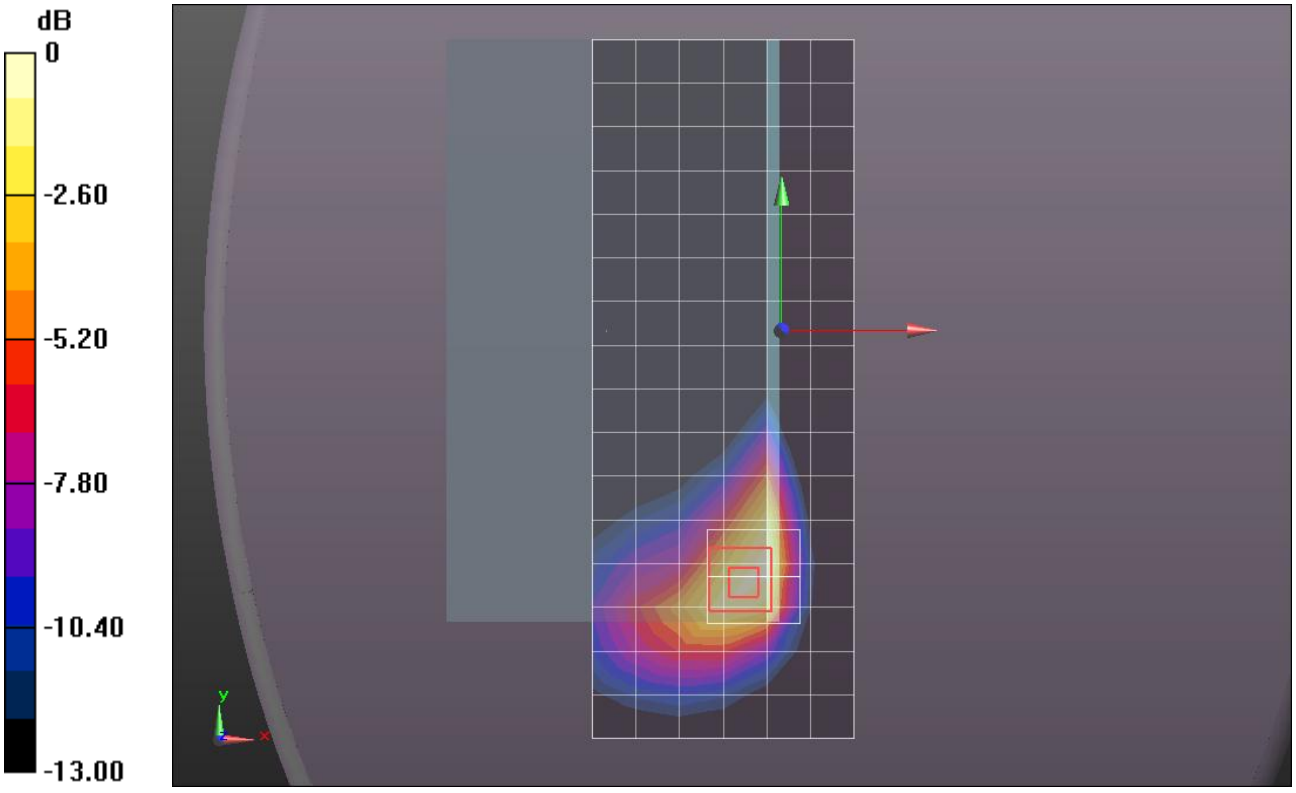
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2 Tilt 35 deg/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.761 mW/g

Edge 2 Tilt 35 deg/QPSK_RB# 1, 99_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.852 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.1050
SAR(1 g) = 0.609 mW/g; SAR(10 g) = 0.318 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.788 mW/g



0 dB = 0.790mW/g = -2.05 dB mW/g

LTE Band 4

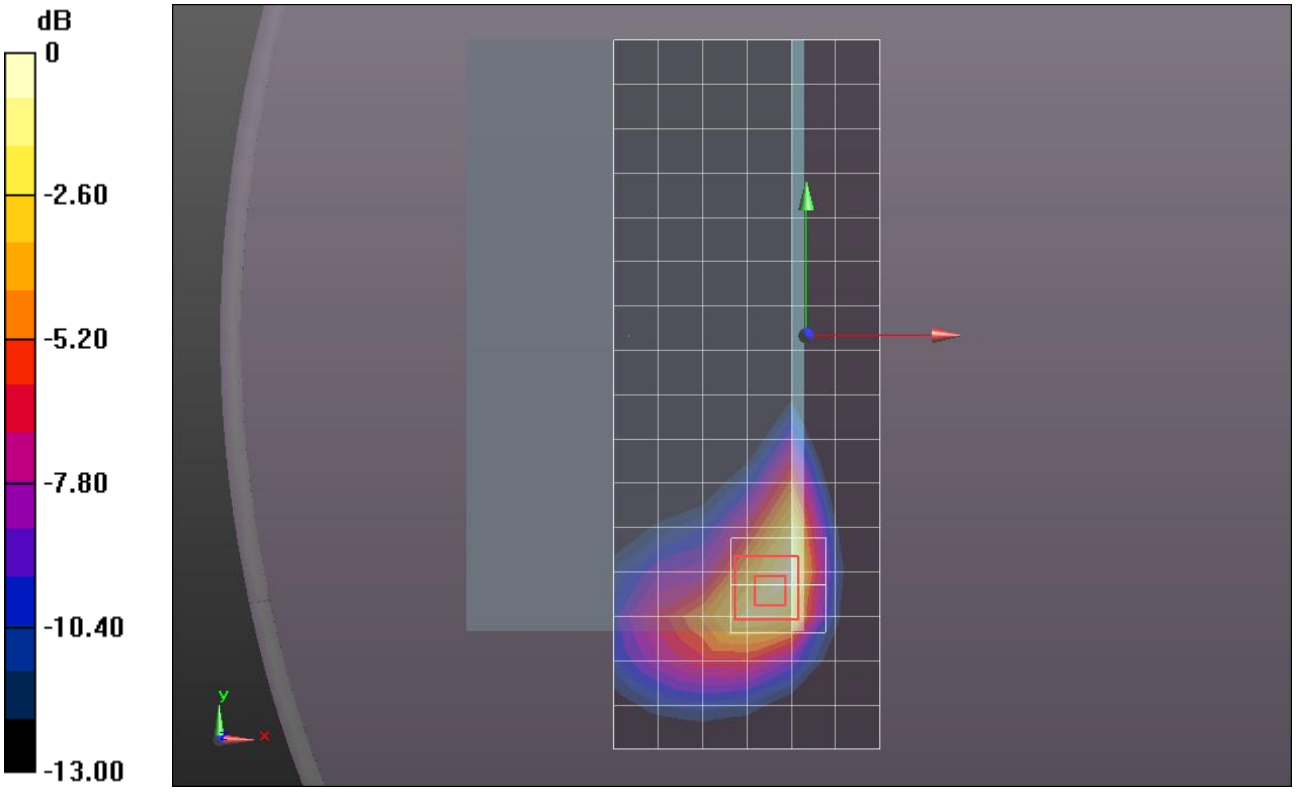
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2 Tilt 35 deg/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.791 mW/g

Edge 2 Tilt 35 deg/QPSK_RB# 50, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.395 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 1.1450
SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.338 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.840 mW/g



0 dB = 0.840mW/g = -1.51 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

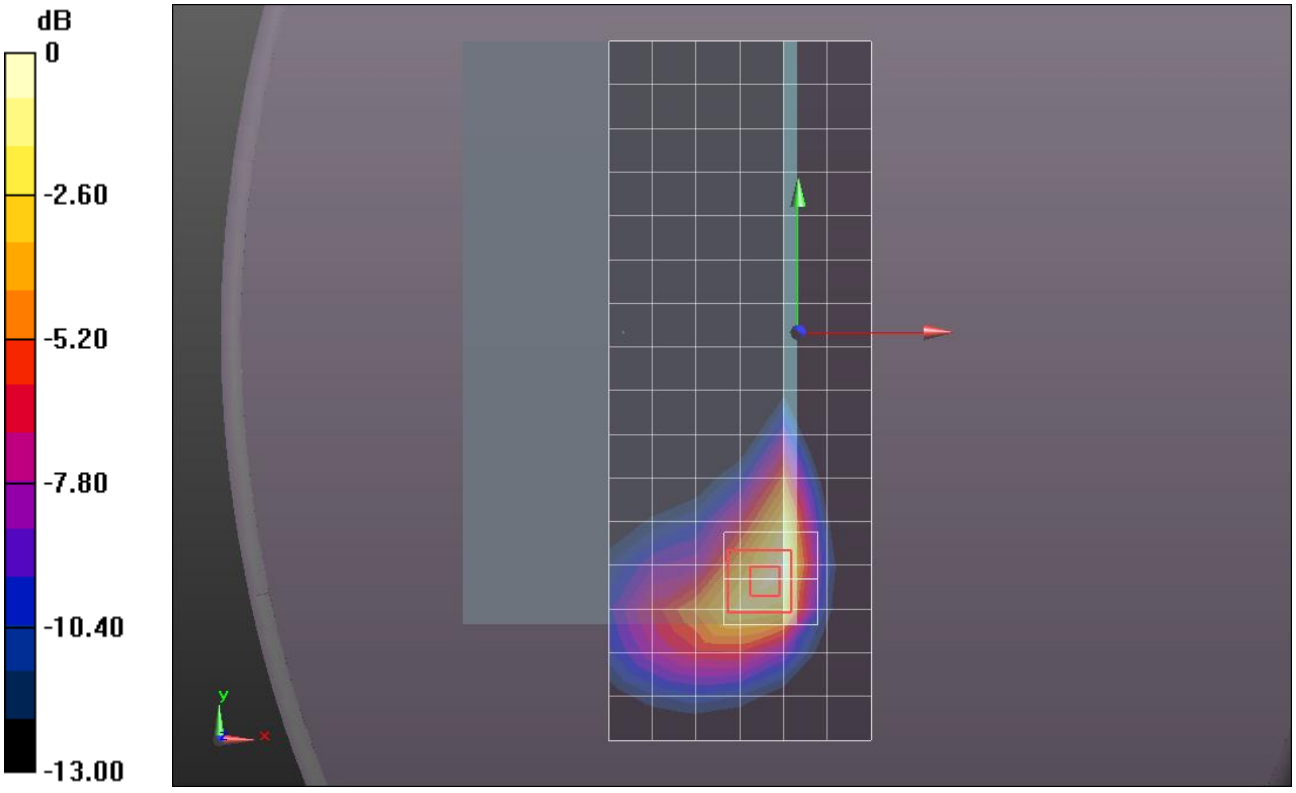
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2 Tilt 35 deg/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.711 mW/g

Edge 2 Tilt 35 deg/QPSK_RB# 50, 24_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.185 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.0180
SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.300 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.748 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

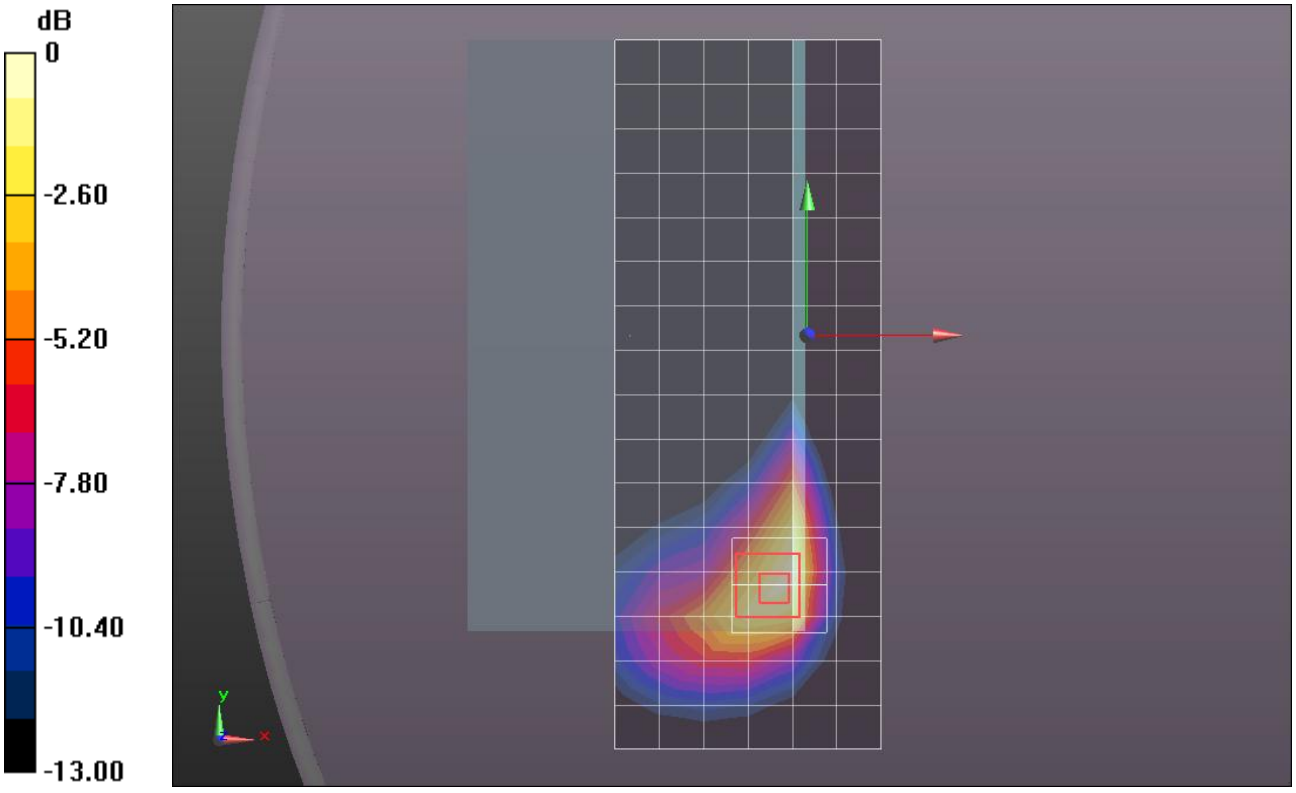
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2 Tilt 35 deg/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.718 mW/g

Edge 2 Tilt 35 deg/QPSK_RB# 50, 49_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.273 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.0300
SAR(1 g) = 0.576 mW/g; SAR(10 g) = 0.304 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.755 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

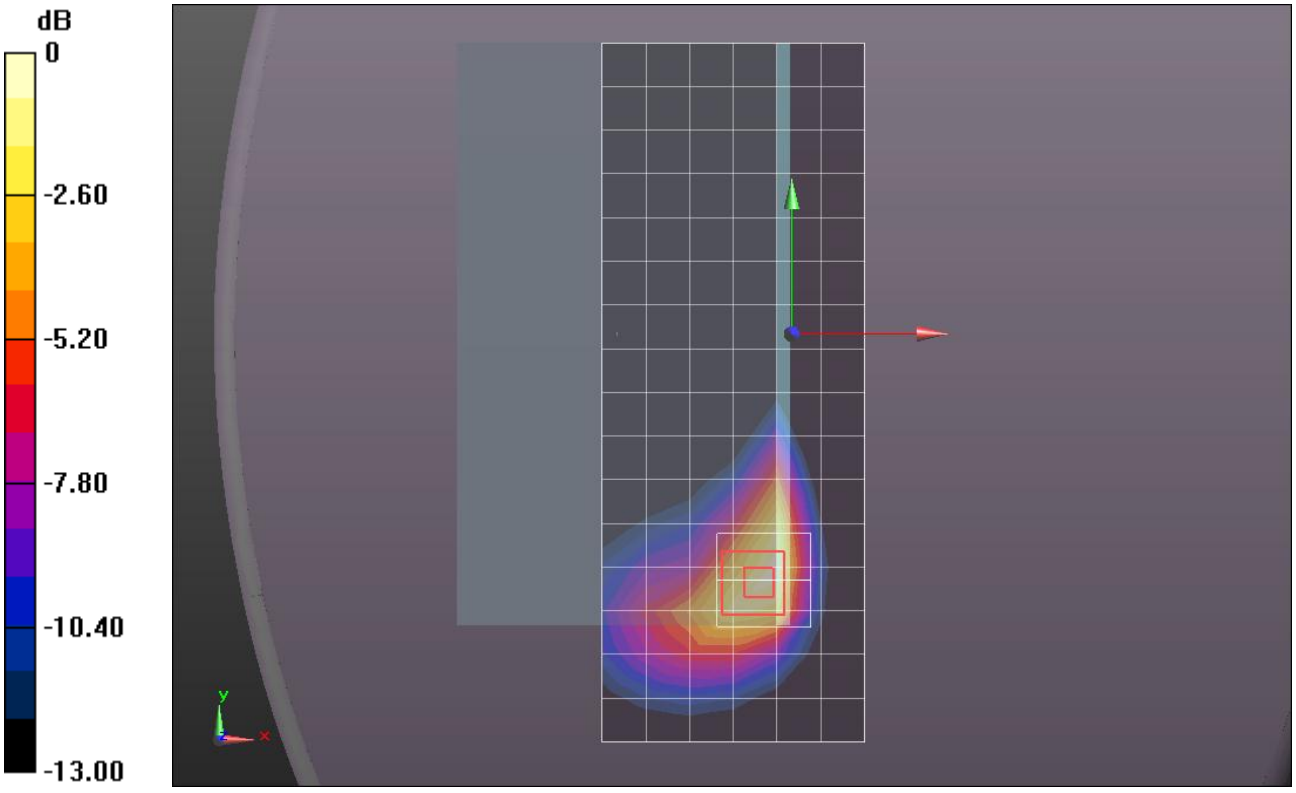
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 2 Tilt 35 deg/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (0 mm)/Area Scan (7x17x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.776 mW/g

Edge 2 Tilt 35 deg/QPSK_RB# 100, 0_Ch 20175 w/ Pwr back-off (0 mm)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.201 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.1140
SAR(1 g) = 0.622 mW/g; SAR(10 g) = 0.328 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.818 mW/g



0 dB = 0.820mW/g = -1.72 dB mW/g

LTE Band 4

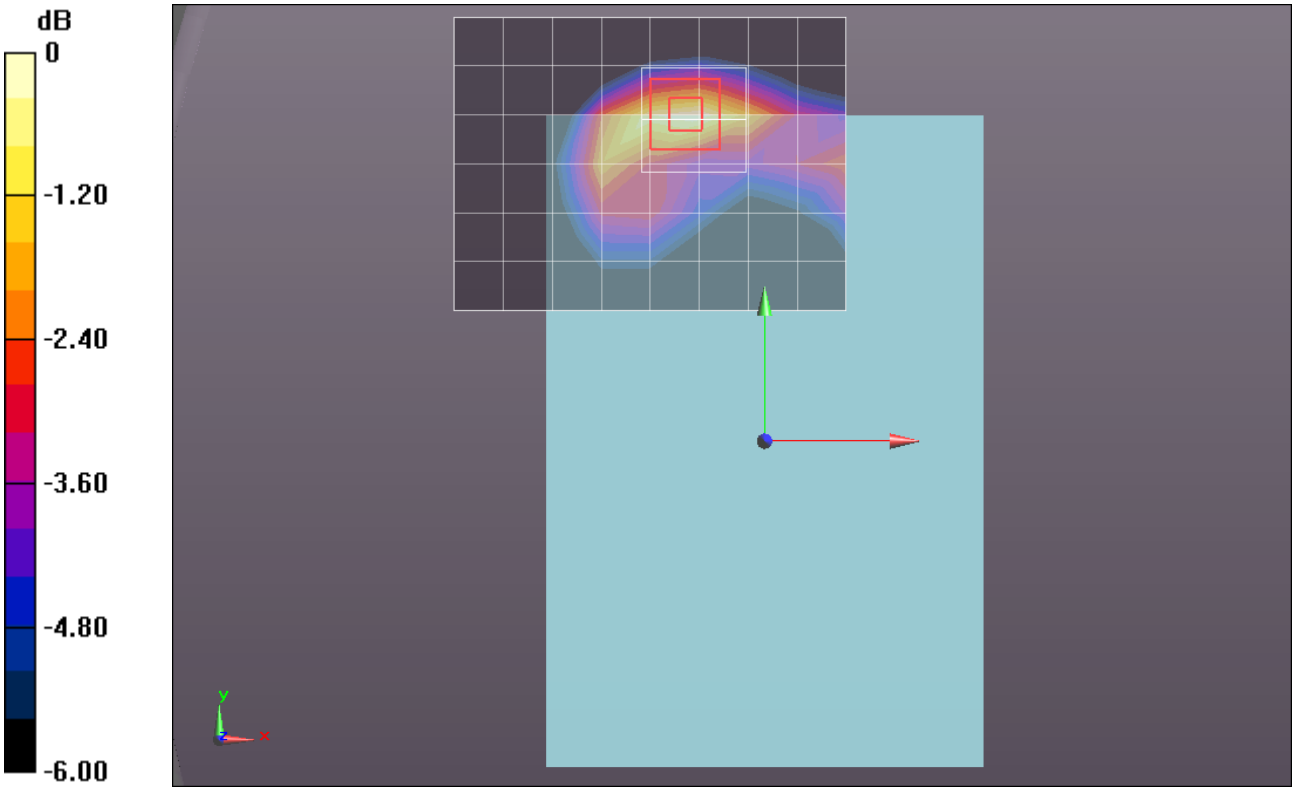
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.497 mho/m; ε_r = 53.338; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 99_Ch 20050 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.162 mW/g

Rear/QPSK_RB# 1, 99_Ch 20050 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.248 V/m; Power Drift = 0.0068 dB
Peak SAR (extrapolated) = 1.4570
SAR(1 g) = 0.925 mW/g; SAR(10 g) = 0.536 mW/g
Maximum value of SAR (measured) = 1.163 mW/g



0 dB = 1.160mW/g = 1.29 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/18/2012

LTE Band 4

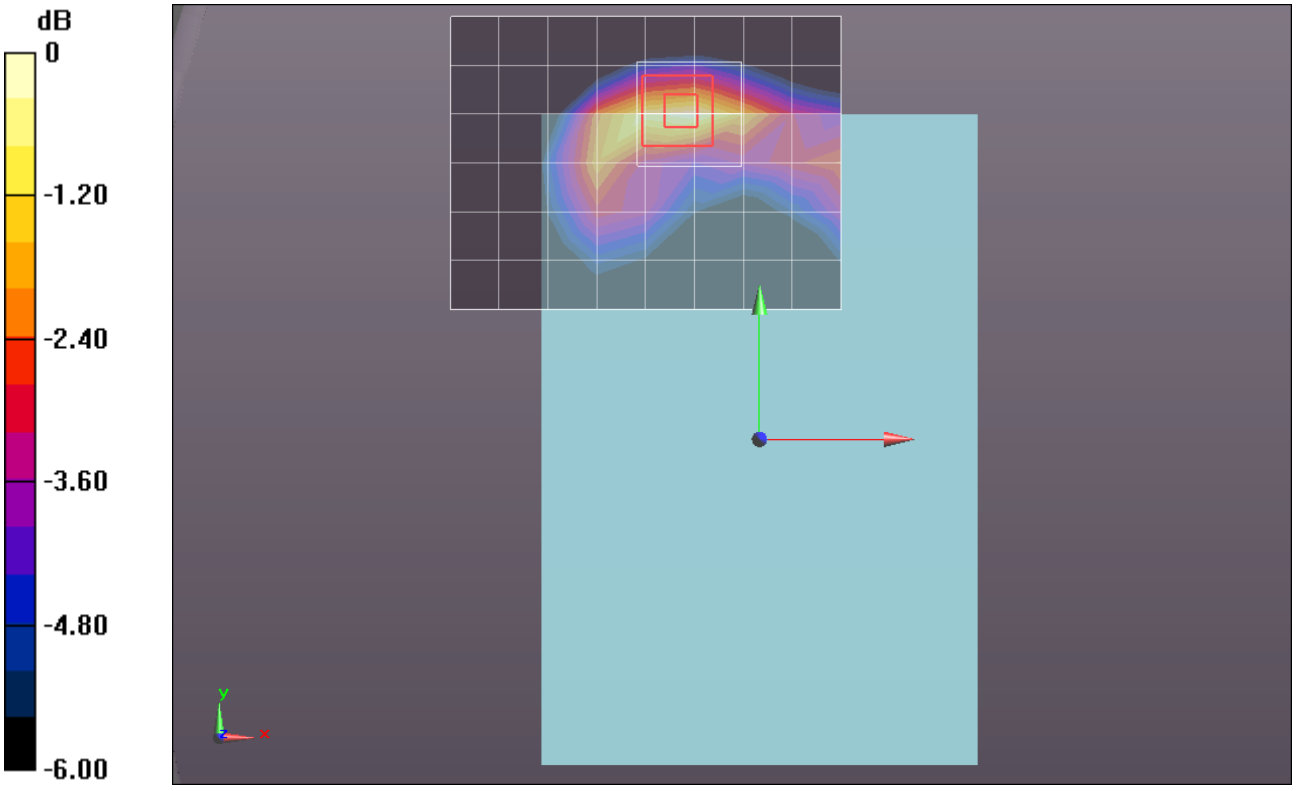
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.447 mho/m; ε_r = 51.831; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 24_Ch 20050 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.785 mW/g

Rear/QPSK_RB# 50, 24_Ch 20050 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.681 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.9870
SAR(1 g) = 0.635 mW/g; SAR(10 g) = 0.372 mW/g
Maximum value of SAR (measured) = 0.800 mW/g



0 dB = 0.800mW/g = -1.94 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/18/2012

LTE Band 4

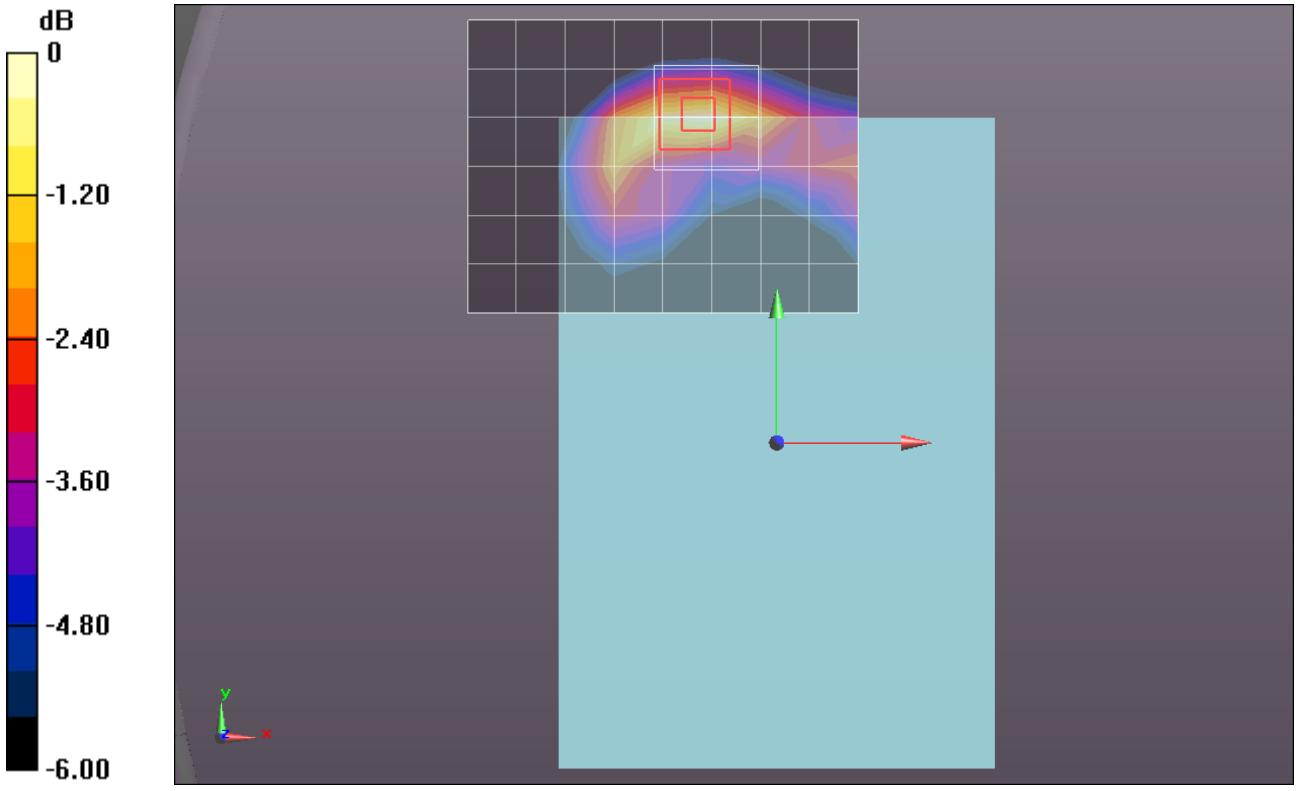
Frequency: 1720 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1720 MHz; σ = 1.447 mho/m; ε_r = 51.831; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 100, 0_Ch 20050 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.760 mW/g

Rear/QPSK_RB# 100, 0_Ch 20050 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.177 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.9460
SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.356 mW/g
Maximum value of SAR (measured) = 0.766 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

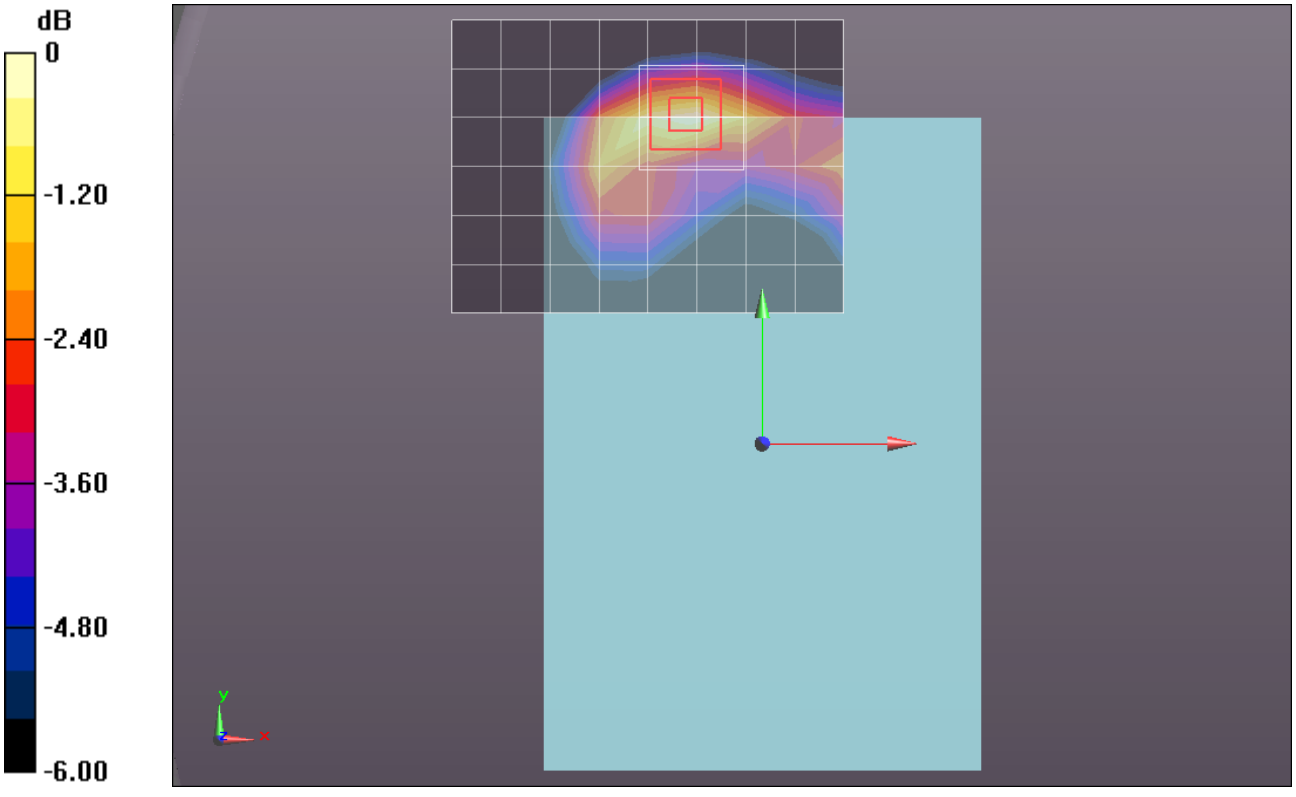
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 0_Ch 20175 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.003 mW/g

Rear/QPSK_RB# 1, 0_Ch 20175 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.017 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.2360
SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.470 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.005 mW/g



0 dB = 1.000mW/g = 0 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/17/2012

LTE Band 4

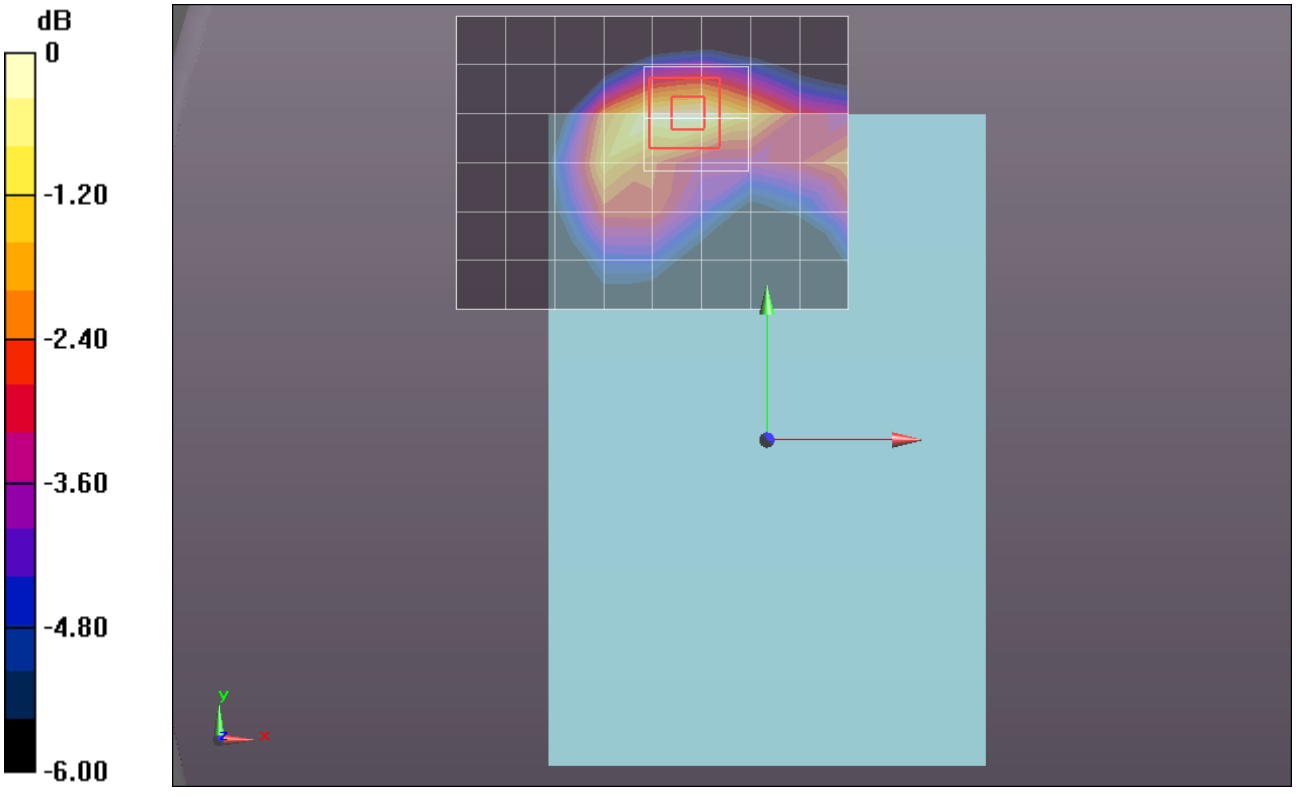
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.512 mho/m; ε_r = 53.278; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 49_Ch 20175 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.861 mW/g

Rear/QPSK_RB# 1, 49_Ch 20175 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.301 V/m; Power Drift = -0.0015 dB
Peak SAR (extrapolated) = 1.0830
SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.410 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.863 mW/g



0 dB = 0.860mW/g = -1.31 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/18/2012

LTE Band 4

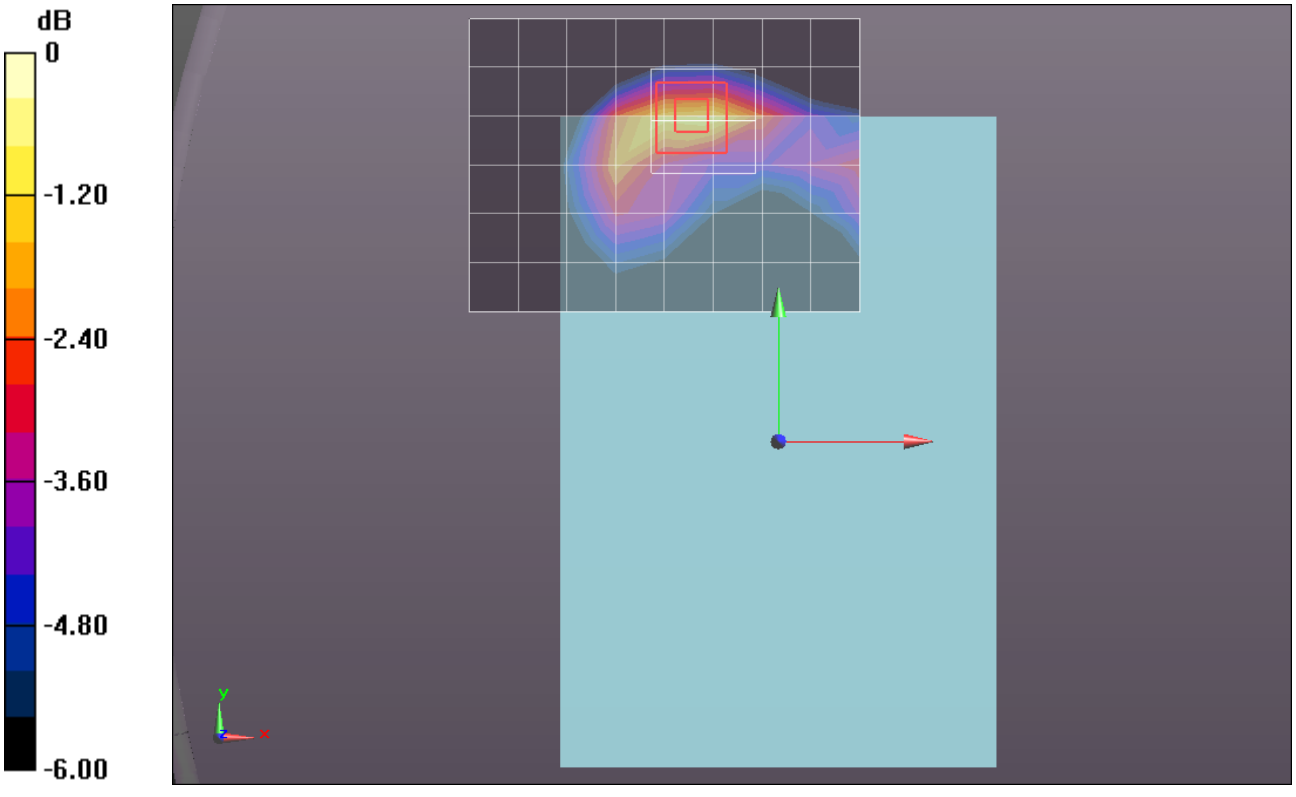
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 99_Ch 20175 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.693 mW/g

Rear/QPSK_RB# 1, 99_Ch 20175 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.673 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.0090
SAR(1 g) = 0.643 mW/g; SAR(10 g) = 0.372 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.810 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/18/2012

LTE Band 4

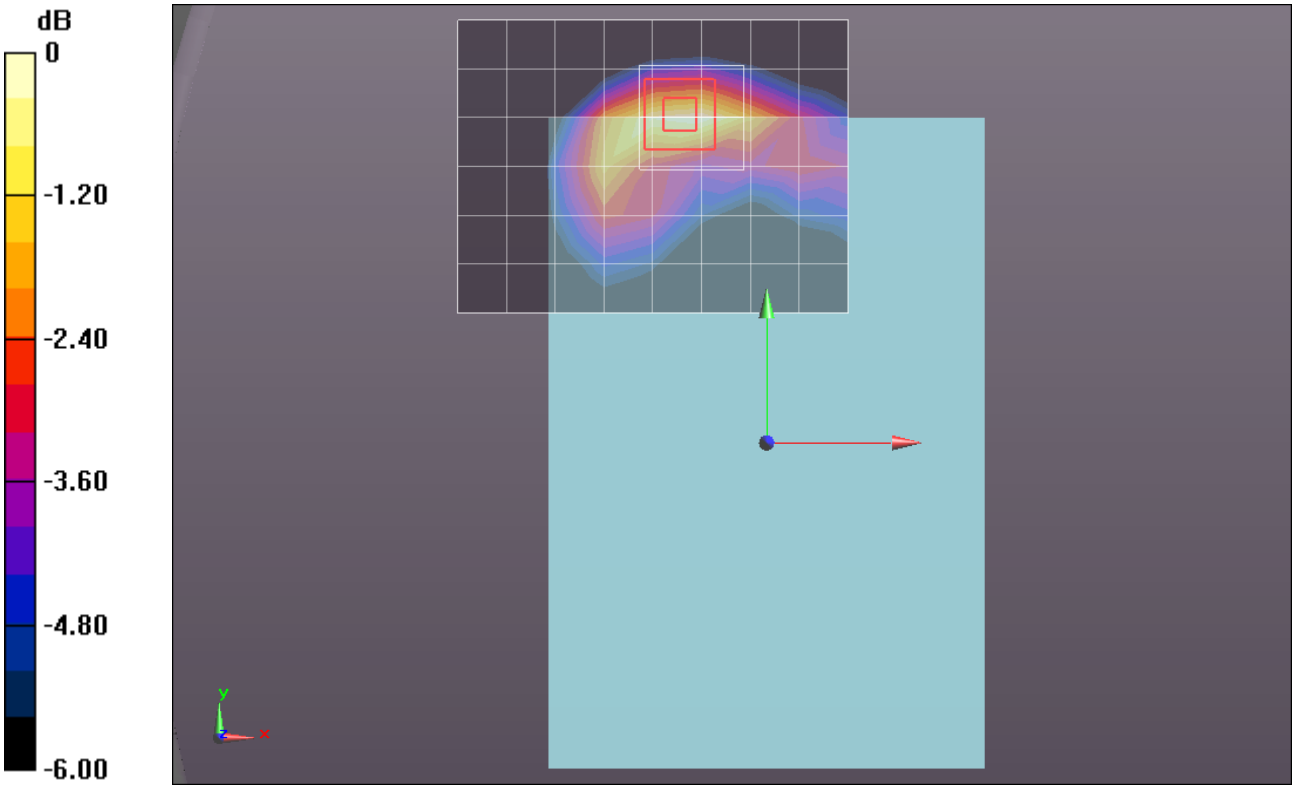
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 0_Ch 20175 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.787 mW/g

Rear/QPSK_RB# 50, 0_Ch 20175 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.496 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.9630
SAR(1 g) = 0.626 mW/g; SAR(10 g) = 0.371 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.785 mW/g



0 dB = 0.790mW/g = -2.05 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/18/2012

LTE Band 4

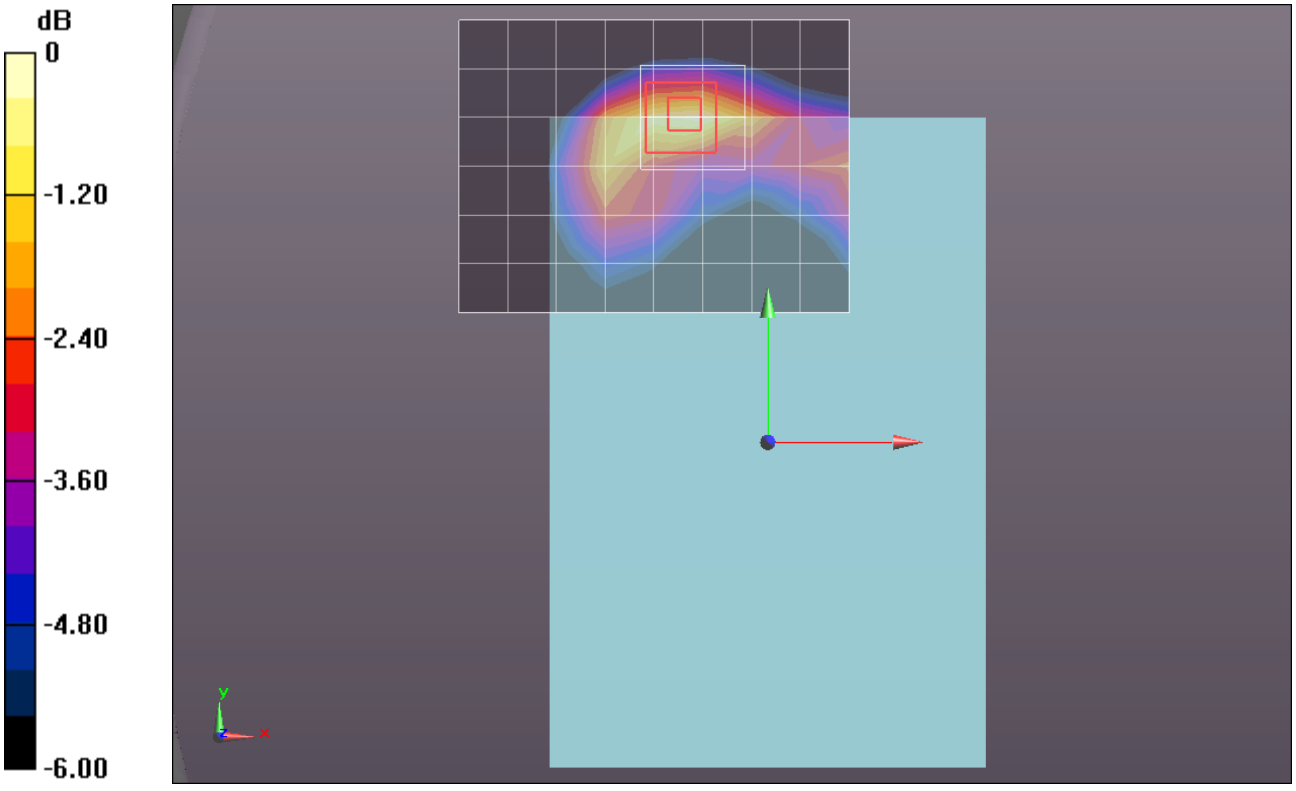
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 24_Ch 20175 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.697 mW/g

Rear/QPSK_RB# 50, 24_Ch 20175 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.416 V/m; Power Drift = -0.004 dB
Peak SAR (extrapolated) = 0.8880
SAR(1 g) = 0.573 mW/g; SAR(10 g) = 0.339 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.726 mW/g



0 dB = 0.730mW/g = -2.73 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/18/2012

LTE Band 4

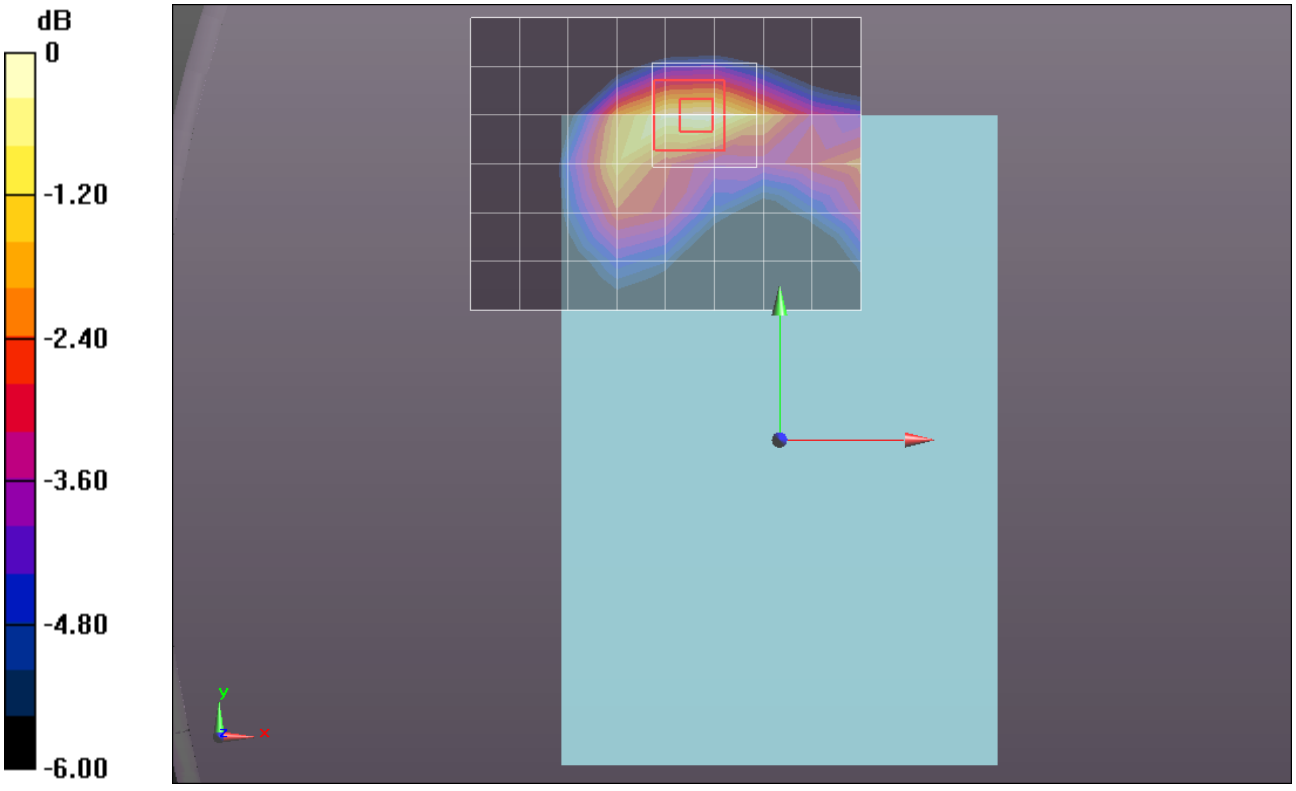
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 49_Ch 20175 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.617 mW/g

Rear/QPSK_RB# 50, 49_Ch 20175 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.886 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.7760
SAR(1 g) = 0.500 mW/g; SAR(10 g) = 0.297 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.630 mW/g



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

Test Laboratory: UL CCS SAR Lab A Date: 9/18/2012

LTE Band 4

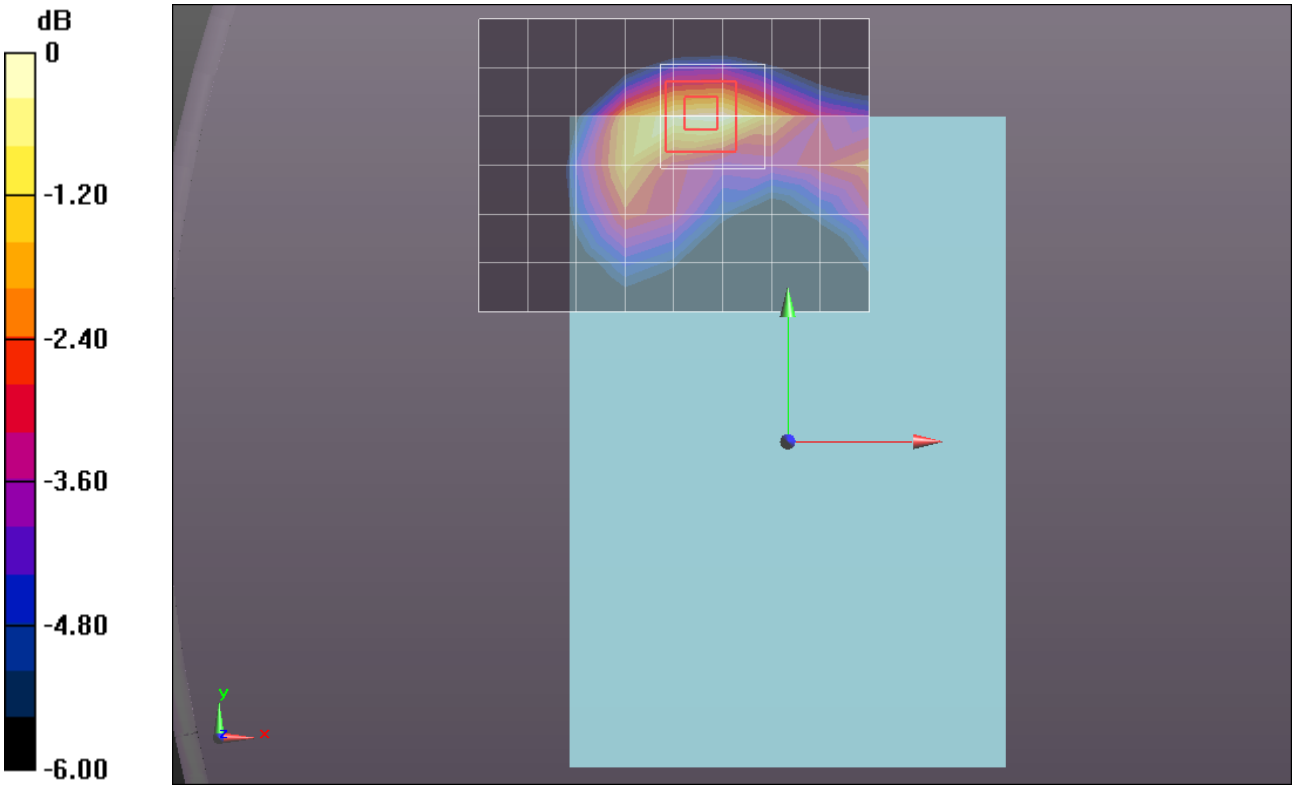
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 100, 0_Ch 20175 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.721 mW/g

Rear/QPSK_RB# 100, 0_Ch 20175 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.649 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.8980
SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.345 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.725 mW/g



0 dB = 0.730mW/g = -2.73 dB mW/g

LTE Band 4

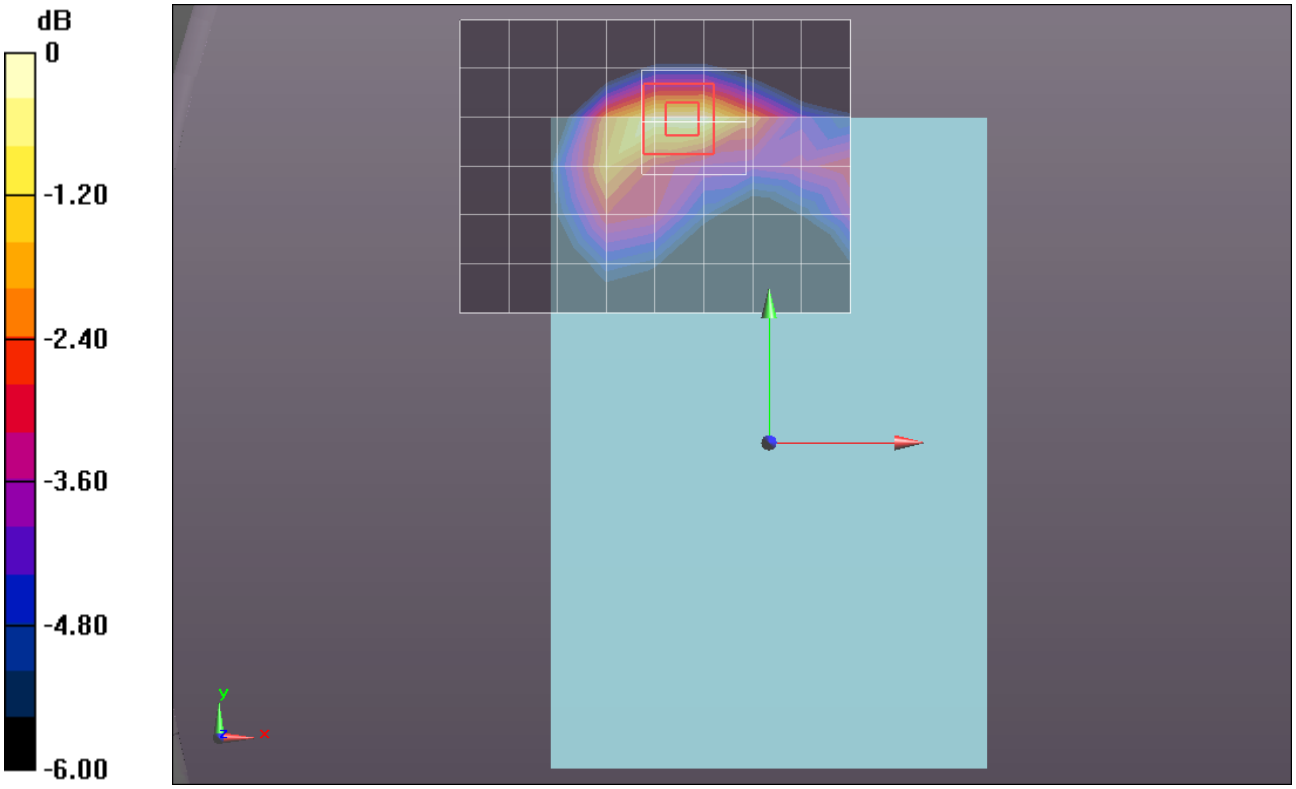
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.469 mho/m; ε_r = 51.7; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 1, 99_Ch 20300 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.985 mW/g

Rear/QPSK_RB# 1, 99_Ch 20300 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.293 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.2830
SAR(1 g) = 0.821 mW/g; SAR(10 g) = 0.478 mW/g
Maximum value of SAR (measured) = 1.033 mW/g



0 dB = 1.030mW/g = 0.26 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/18/2012

LTE Band 4

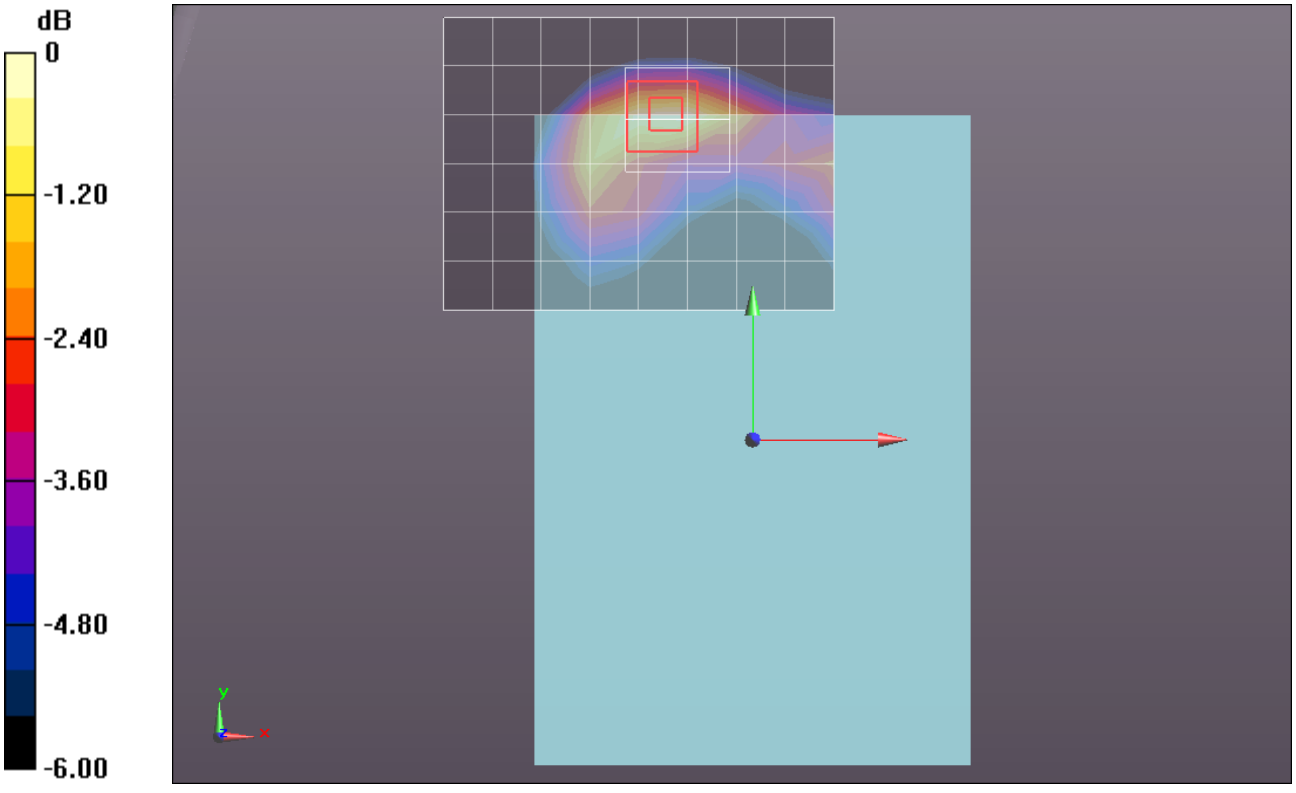
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.469 mho/m; ε_r = 51.7; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 50, 0_Ch 20300 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.630 mW/g

Rear/QPSK_RB# 50, 0_Ch 20300 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.995 V/m; Power Drift = 0.0023 dB
Peak SAR (extrapolated) = 0.7990
SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.301 mW/g
Maximum value of SAR (measured) = 0.642 mW/g



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

LTE Band 4

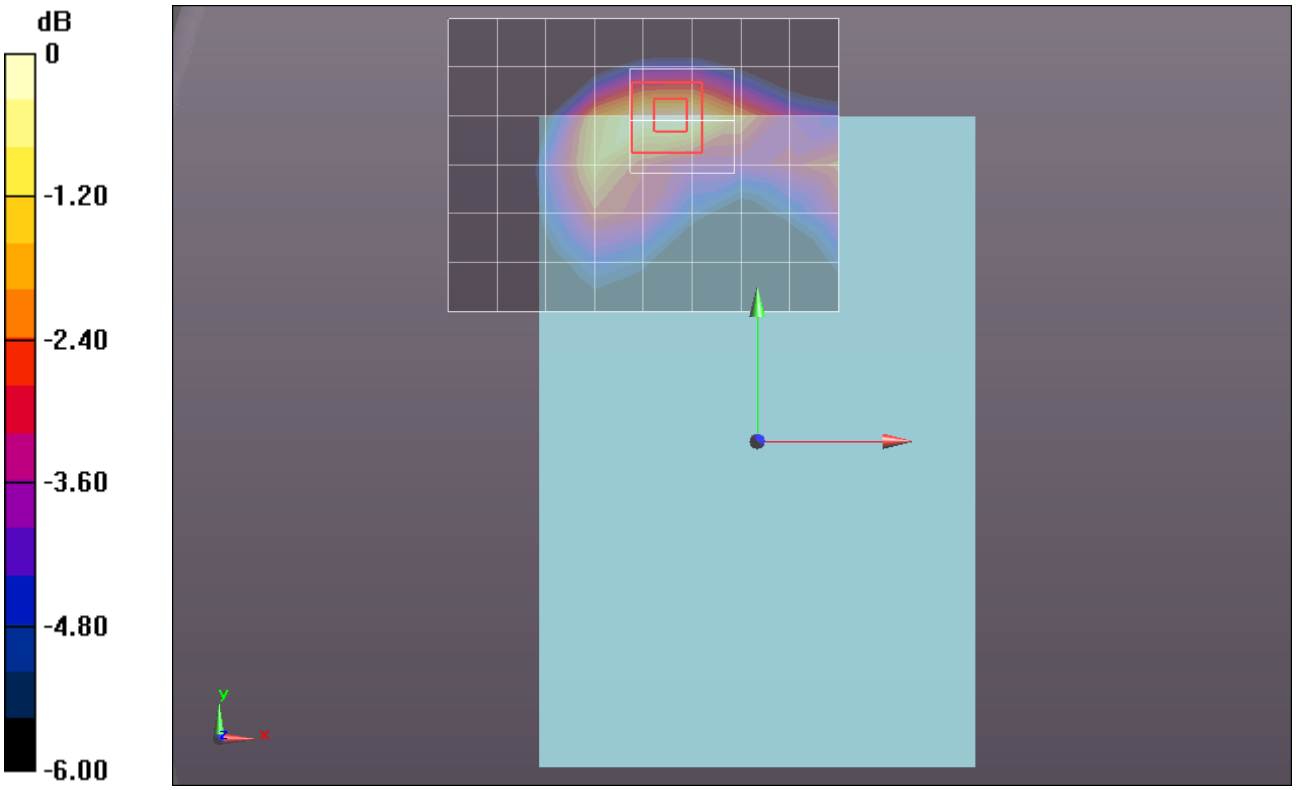
Frequency: 1745 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used: f = 1745 MHz; σ = 1.469 mho/m; ε_r = 51.7; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

Rear/QPSK_RB# 100, 0_Ch 20300 w/o Pwr back-off (14 mm)/Area Scan (9x7x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.656 mW/g

Rear/QPSK_RB# 100, 0_Ch 20300 w/o Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.264 V/m; Power Drift = -0.0025 dB
Peak SAR (extrapolated) = 0.8160
SAR(1 g) = 0.529 mW/g; SAR(10 g) = 0.311 mW/g
Maximum value of SAR (measured) = 0.658 mW/g



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

LTE Band 4

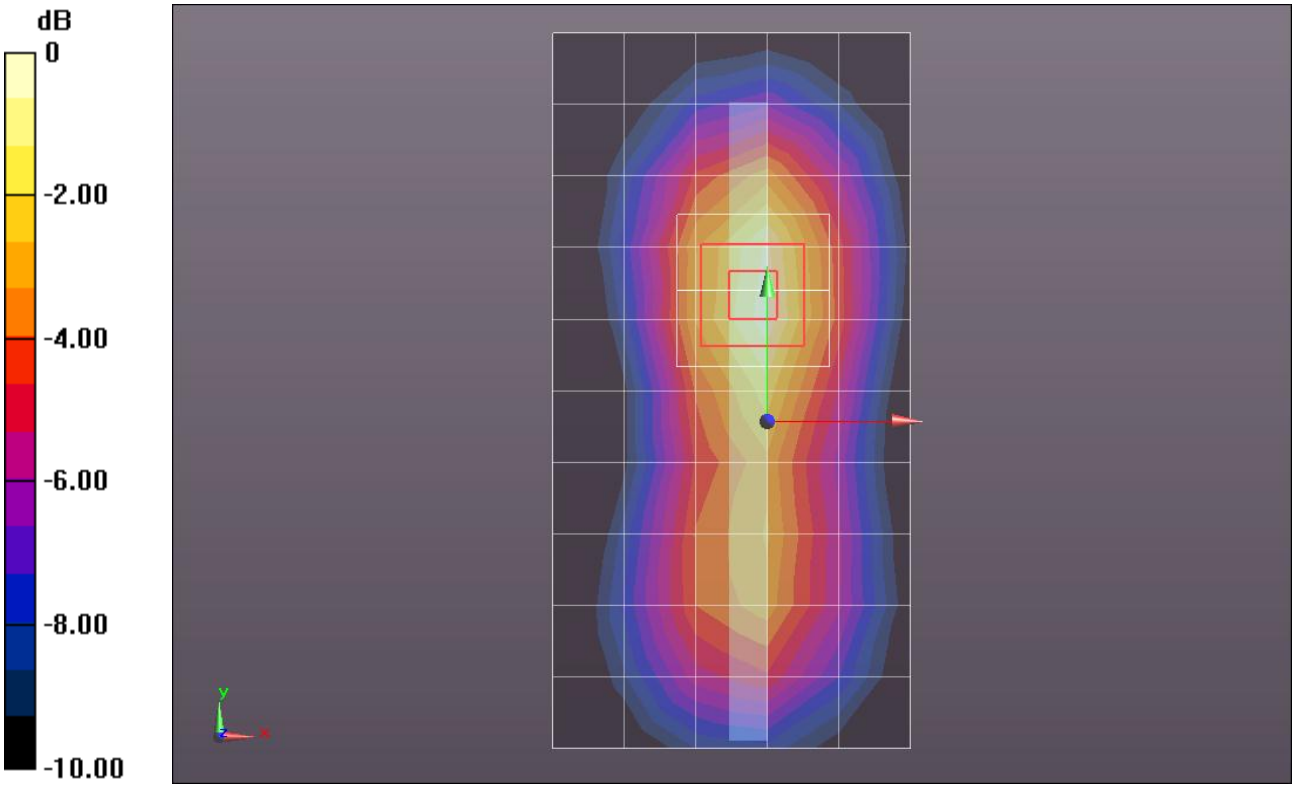
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 1,0_Ch 20175 w/Pwr back -off (14mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.899 mW/g

Edge 1/QPSK_RB# 1,0_Ch 20175 w/Pwr back -off (14mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.949 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.1640
SAR(1 g) = 0.750 mW/g; SAR(10 g) = 0.449 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.939 mW/g



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

LTE Band 4

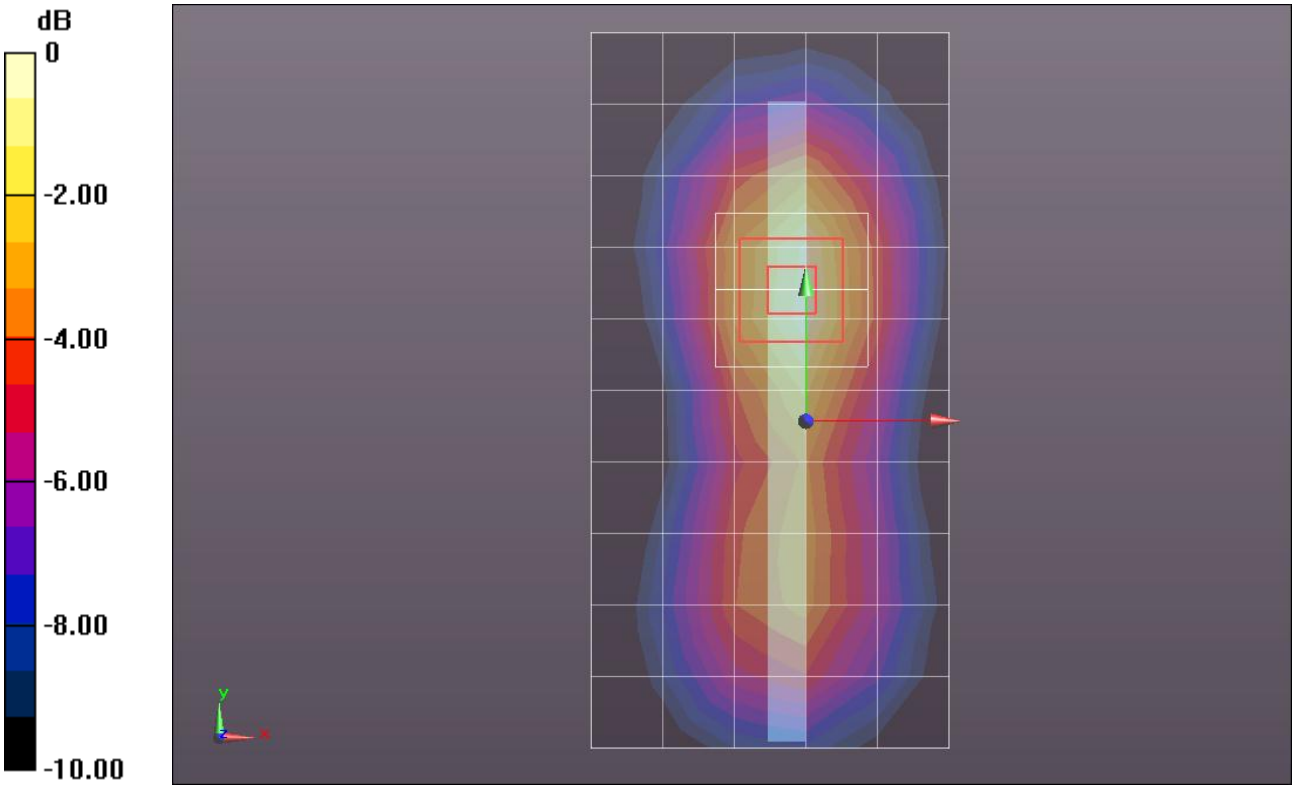
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 1,49 _Ch 20175 w/ Pwr back-off (14 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.817 mW/g

Edge 1/QPSK_RB# 1,49 _Ch 20175 w/ Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.844 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.0730
SAR(1 g) = 0.690 mW/g; SAR(10 g) = 0.413 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.864 mW/g



0 dB = 0.860mW/g = -1.31 dB mW/g

LTE Band 4

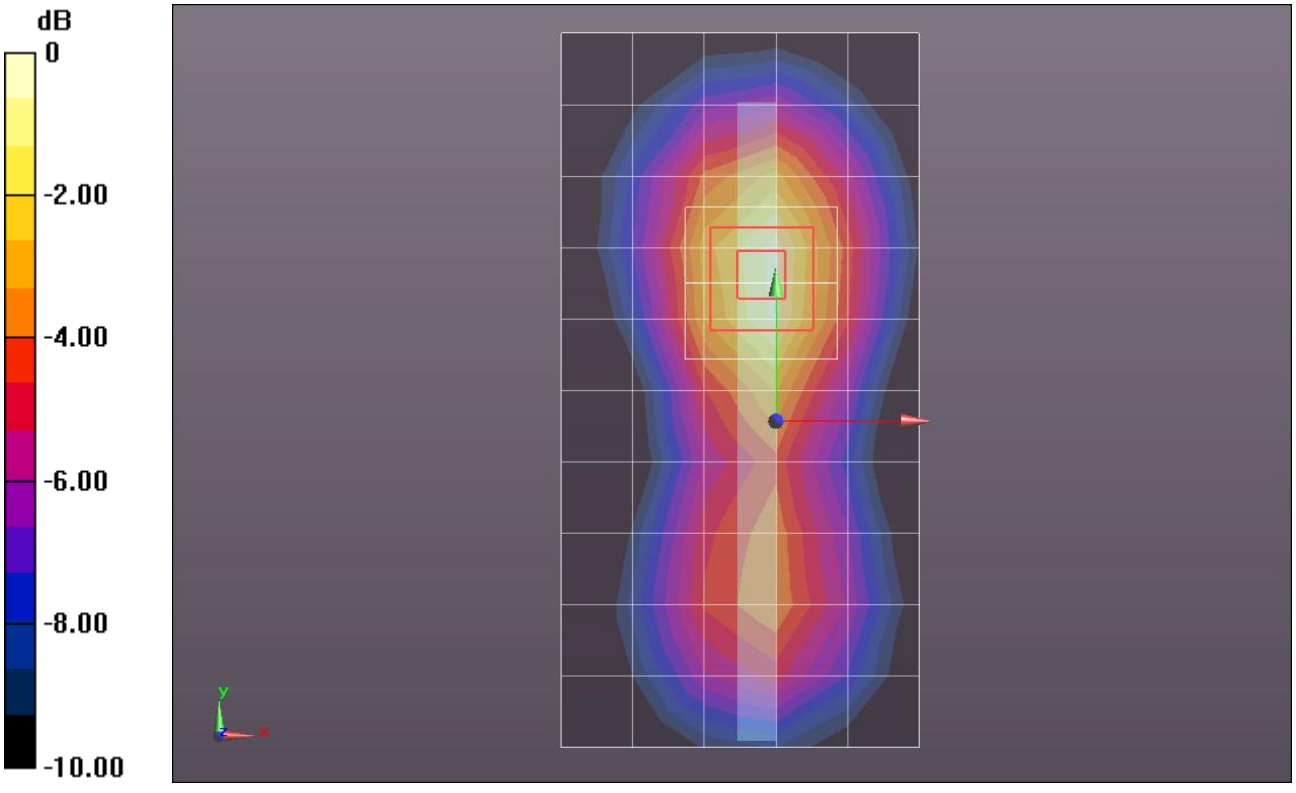
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 1,99 _Ch 20175 w/ Pwr back-off (14 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.849 mW/g

Edge 1/QPSK_RB# 1,99 _Ch 20175 w/ Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.381 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.1360
SAR(1 g) = 0.726 mW/g; SAR(10 g) = 0.434 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.906 mW/g



0 dB = 0.910mW/g = -0.82 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 9/18/2012

LTE Band 4

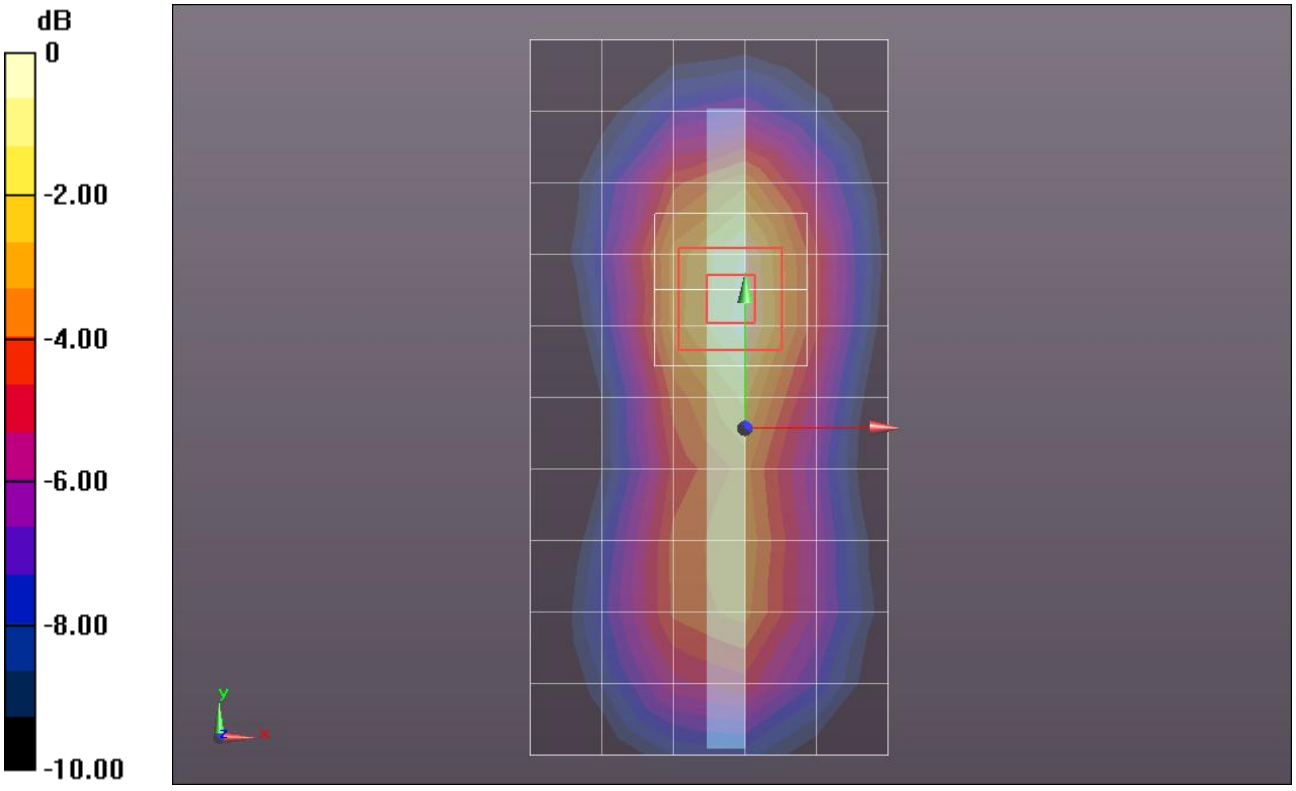
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 50,0 _Ch 20175 w/ Pwr back-off (14 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.761 mW/g

Edge 1/QPSK_RB# 50,0 _Ch 20175 w/ Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.283 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.0090
SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.388 mW/g
Maximum value of SAR (measured) = 0.809 mW/g



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

LTE Band 4

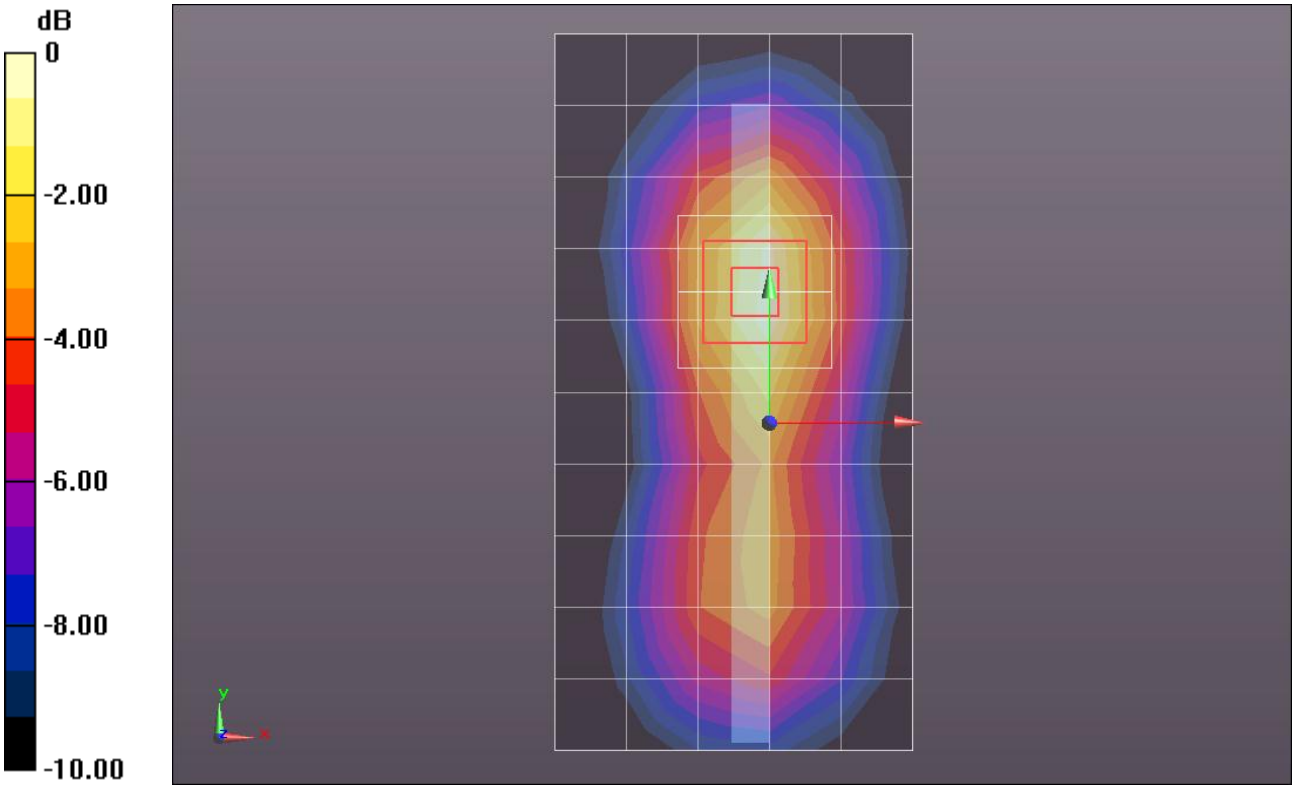
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 50,24_Ch 20175 w/ Pwr back-off (14 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.727 mW/g

Edge 1/QPSK_RB# 50,24_Ch 20175 w/ Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.482 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.9430
SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.360 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.756 mW/g



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

LTE Band 4

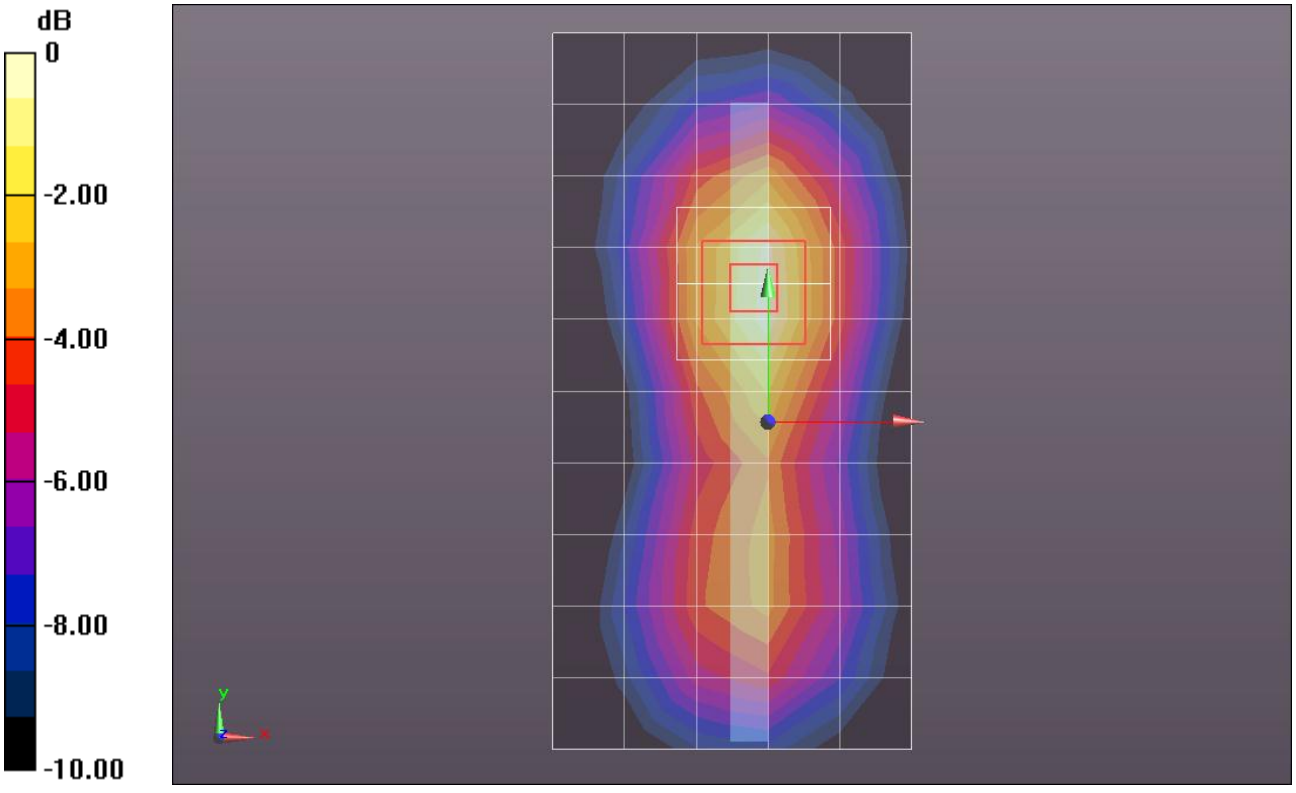
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 50,49 _Ch 20175 w/ Pwr back-off (14 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.634 mW/g

Edge 1/QPSK_RB# 50,49 _Ch 20175 w/ Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.966 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.8350
SAR(1 g) = 0.533 mW/g; SAR(10 g) = 0.318 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.669 mW/g



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

LTE Band 4

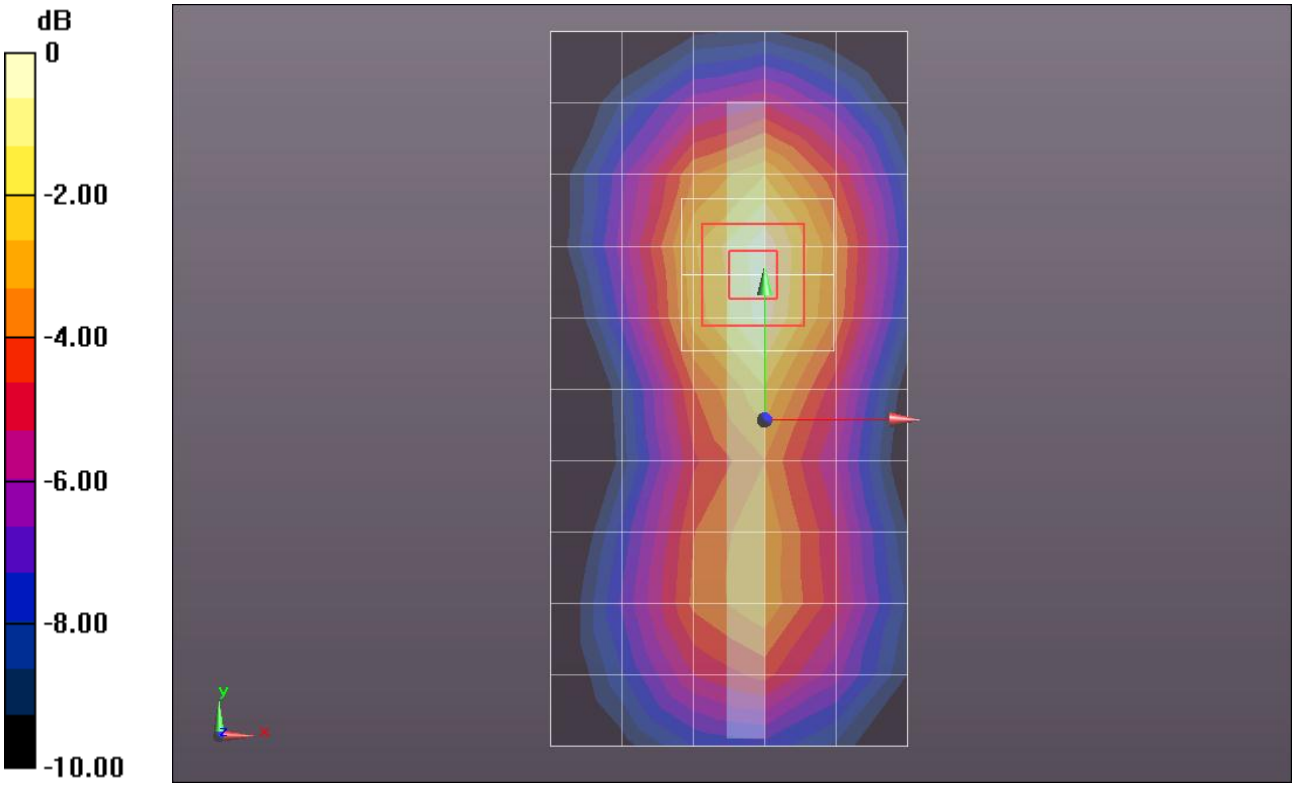
Frequency: 1732.5 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.451 mho/m; ε_r = 51.771; ρ = 1000 kg/m^3
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1258; Calibrated: 3/8/2012
- Probe: EX3DV4 - SN3772; ConvF(7.55, 7.55, 7.55); 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 (B); Type: QDOVA001BB; Serial: 1099

Edge 1/QPSK_RB# 100,0 _Ch 20175 w/ Pwr back-off (14 mm)/Area Scan (6x11x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.661 mW/g

Edge 1/QPSK_RB# 100,0 _Ch 20175 w/ Pwr back-off (14 mm)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.548 V/m; Power Drift = 0.00036 dB
Peak SAR (extrapolated) = 0.8580
SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.341 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.691 mW/g



0 dB = 0.690mW/g = -3.22 dB mW/g