

## W-CDMA Band V (Primary Antenna)

Frequency: 846.6 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 1.003$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1259; Calibrated: 2/13/2012
- Probe: EX3DV4 - SN3686; ConvF(8.73, 8.73, 8.73); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118

**Rear/R99\_ch 4233/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.093 mW/g

**Rear/R99\_ch 4233/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

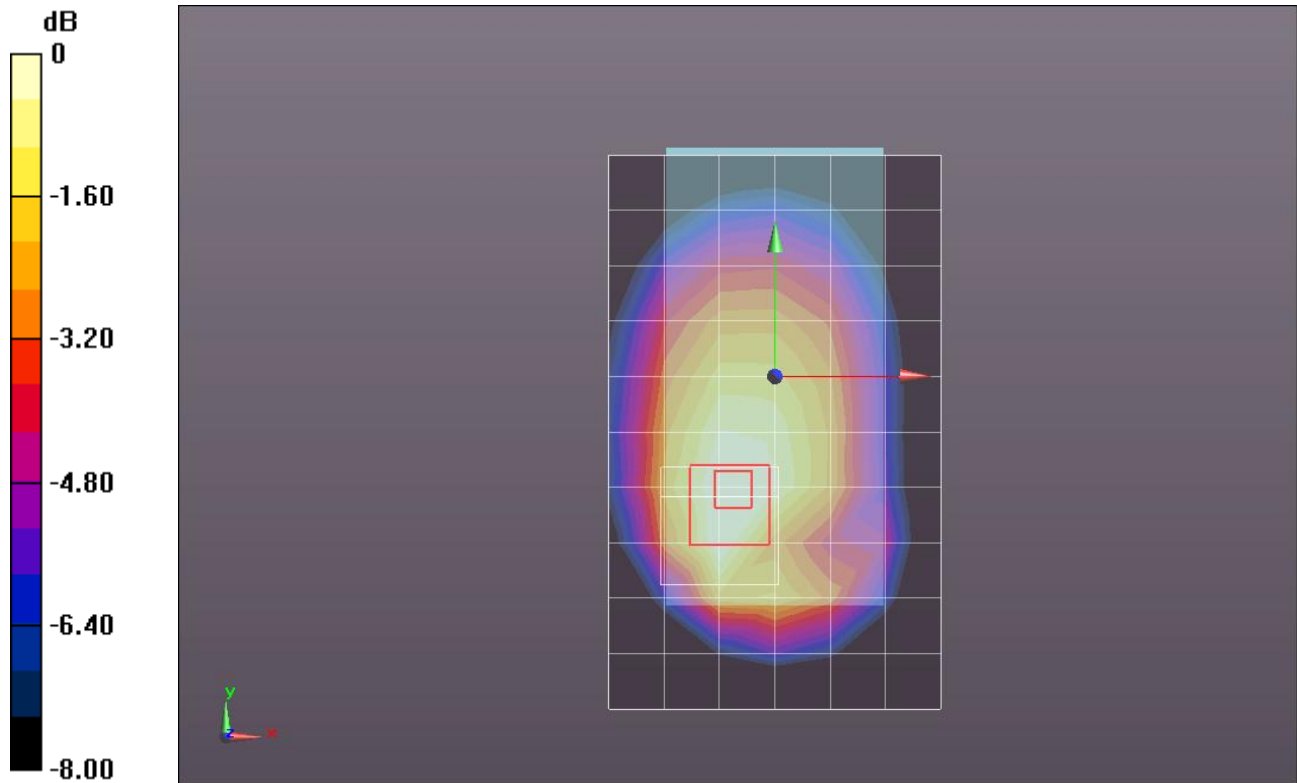
Reference Value = 32.621 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.2750

**SAR(1 g) = 0.904 mW/g; SAR(10 g) = 0.590 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.046 mW/g



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

## LTE Band 2 (Primary Antenna)

Frequency: 1880 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C  
 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 51.113$ ;  $\rho = 1000 \text{ kg/m}^3$

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(7.23, 7.23, 7.23); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (B); Type: QD000P40CD; Serial: 1628

**Rear/QPSK\_RB#1,49\_Ch 18900/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (measured) = 1.546 mW/g

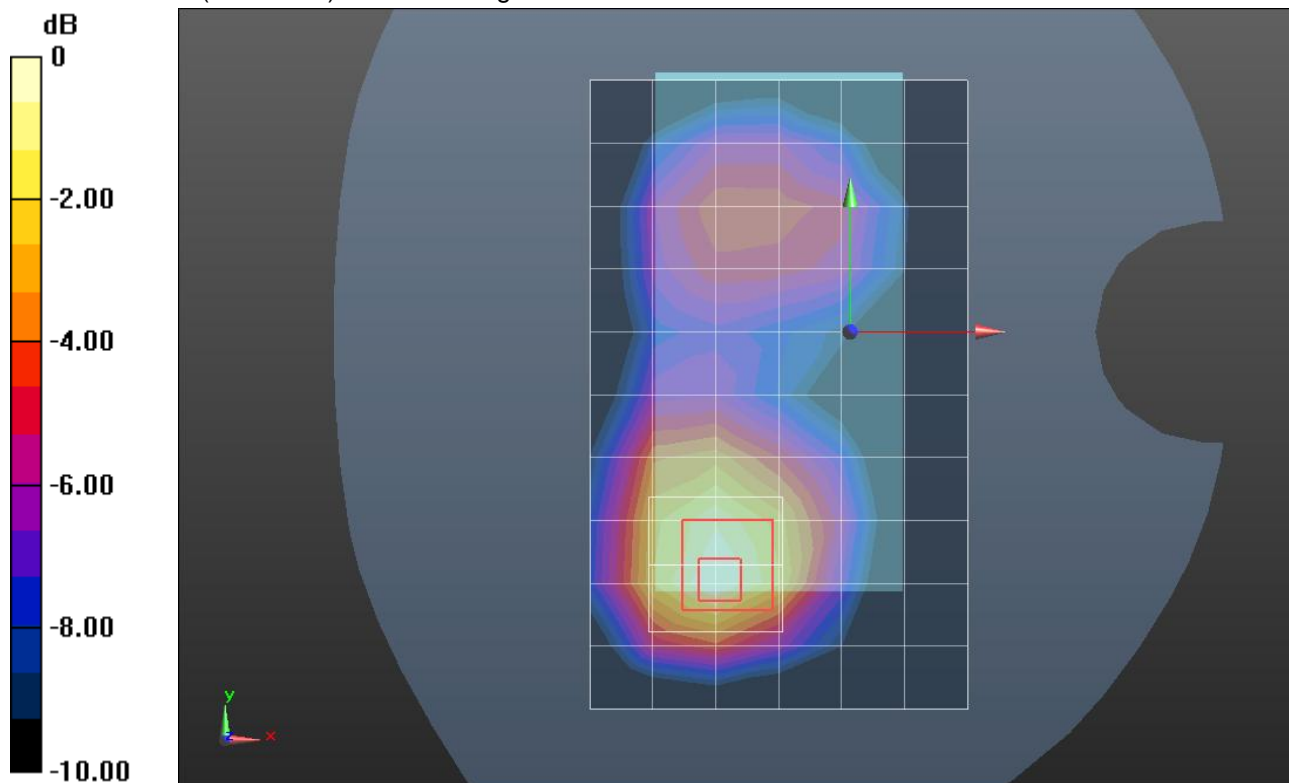
**Rear/QPSK\_RB#1,49\_Ch 18900/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 32.096 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.0680

**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.651 mW/g**

Maximum value of SAR (measured) = 1.474 mW/g



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

## LTE Band 4 (Primary Antenna)

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;  $\sigma = 1.439$  mho/m;  $\epsilon_r = 51.289$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 Sn1239; Calibrated: 6/6/2012
- Probe: EX3DV4 - SN3773; ConvF(7.37, 7.37, 7.37); Calibrated: 3/14/2012
- 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: 1121

**Rear/QPSK\_RB# 1, 49\_Ch 20175/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.131 mW/g

**Rear/QPSK\_RB# 1, 49\_Ch 20175/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

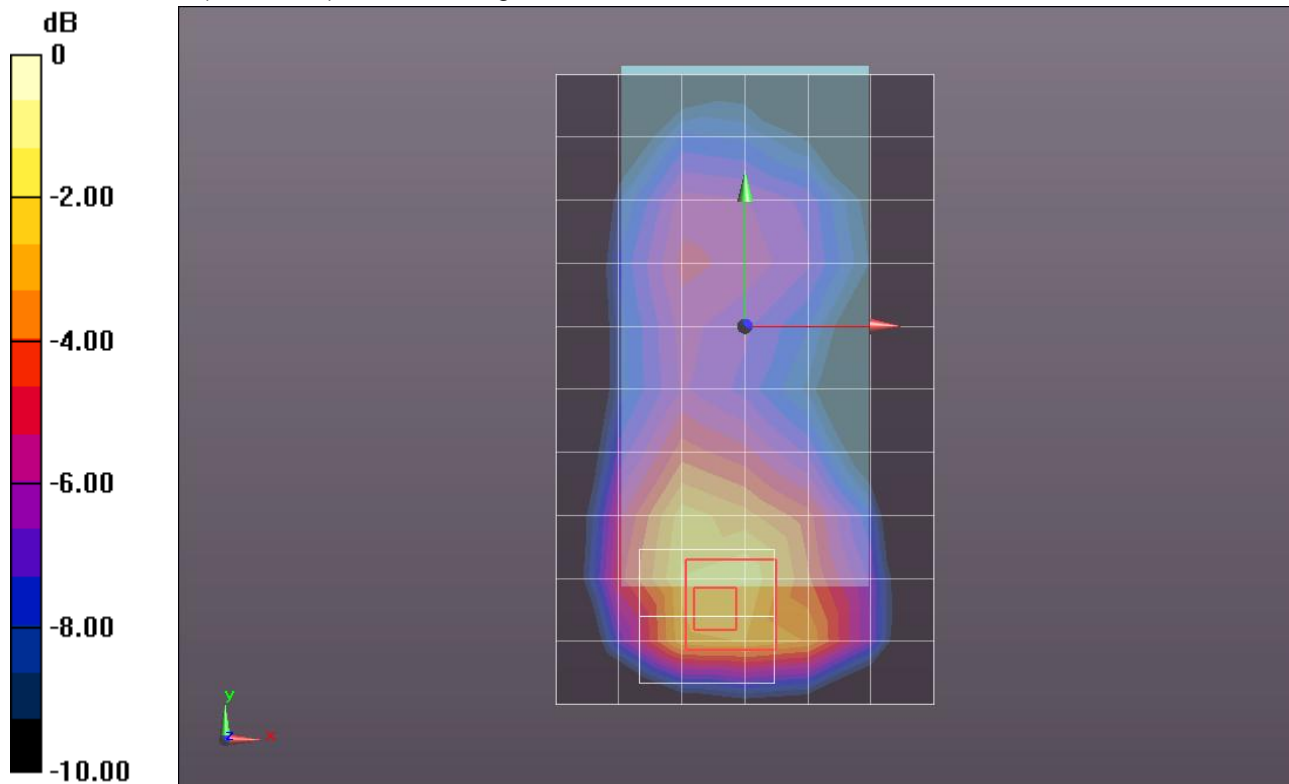
Reference Value = 28.302 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.0430

**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.659 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.517 mW/g



0 dB = 1.520mW/g = 3.64 dB mW/g

## LTE Band 17 (Primary Antenna)

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C  
 Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.907 \text{ mho/m}$ ;  $\epsilon_r = 54.838$ ;  $\rho = 1000 \text{ kg/m}^3$

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 Sn1239; Calibrated: 6/6/2012
- Probe: EX3DV4 - SN3773; ConvF(8.92, 8.92, 8.92); Calibrated: 3/14/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117

**Front/QPSK\_RB#1,24\_Ch 23790 2/Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
 Maximum value of SAR (measured) = 0.588 mW/g

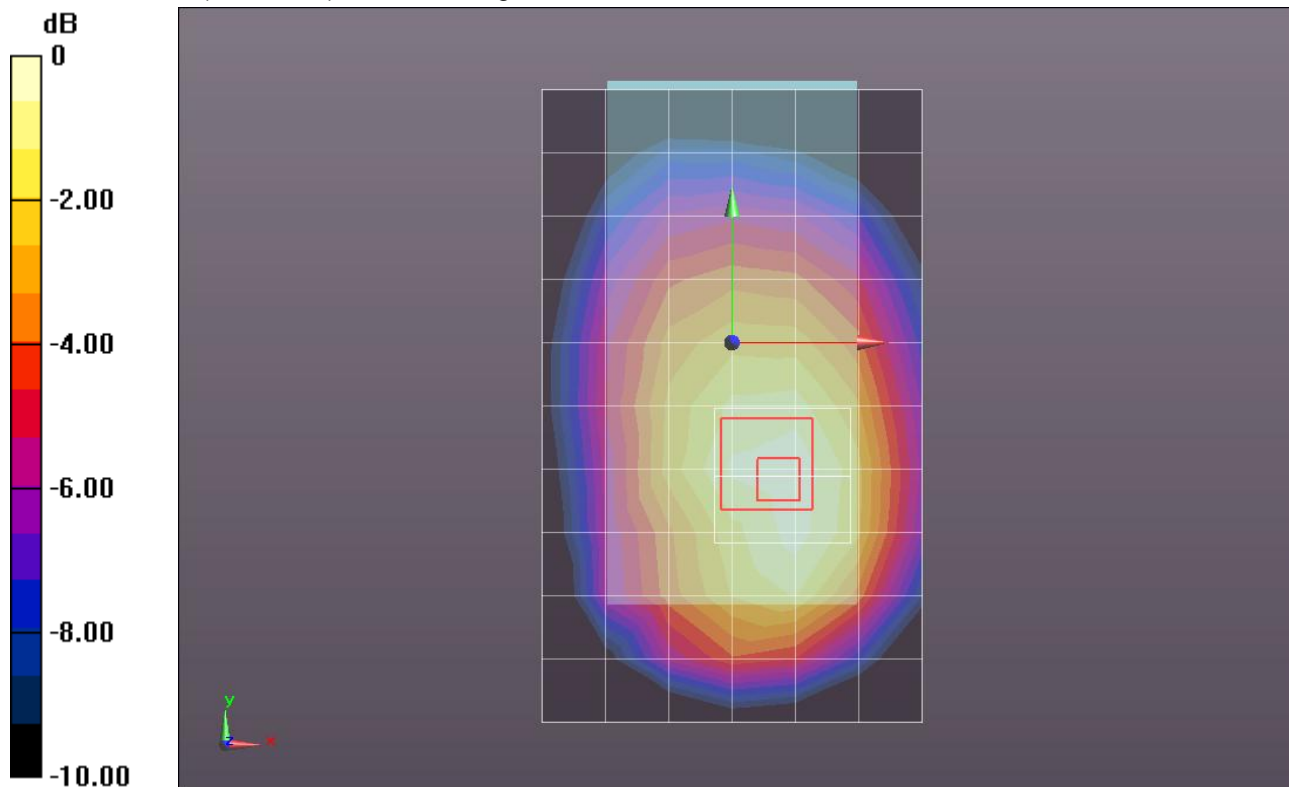
**Front/QPSK\_RB#1,24\_Ch 23790 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 25.691 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.7120

**SAR(1 g) = 0.521 mW/g; SAR(10 g) = 0.374 mW/g**

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



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

## WiFi 2.4GHz

Frequency: 2437 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C  
 Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.817$  mho/m;  $\epsilon_r = 39.751$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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(6.64, 6.64, 6.64); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

**RHS/Touch\_802.11b\_ch 6/Area Scan (8x13x1):** Measurement grid: dx=12mm, dy=12mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**RHS/Touch\_802.11b\_ch 6/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

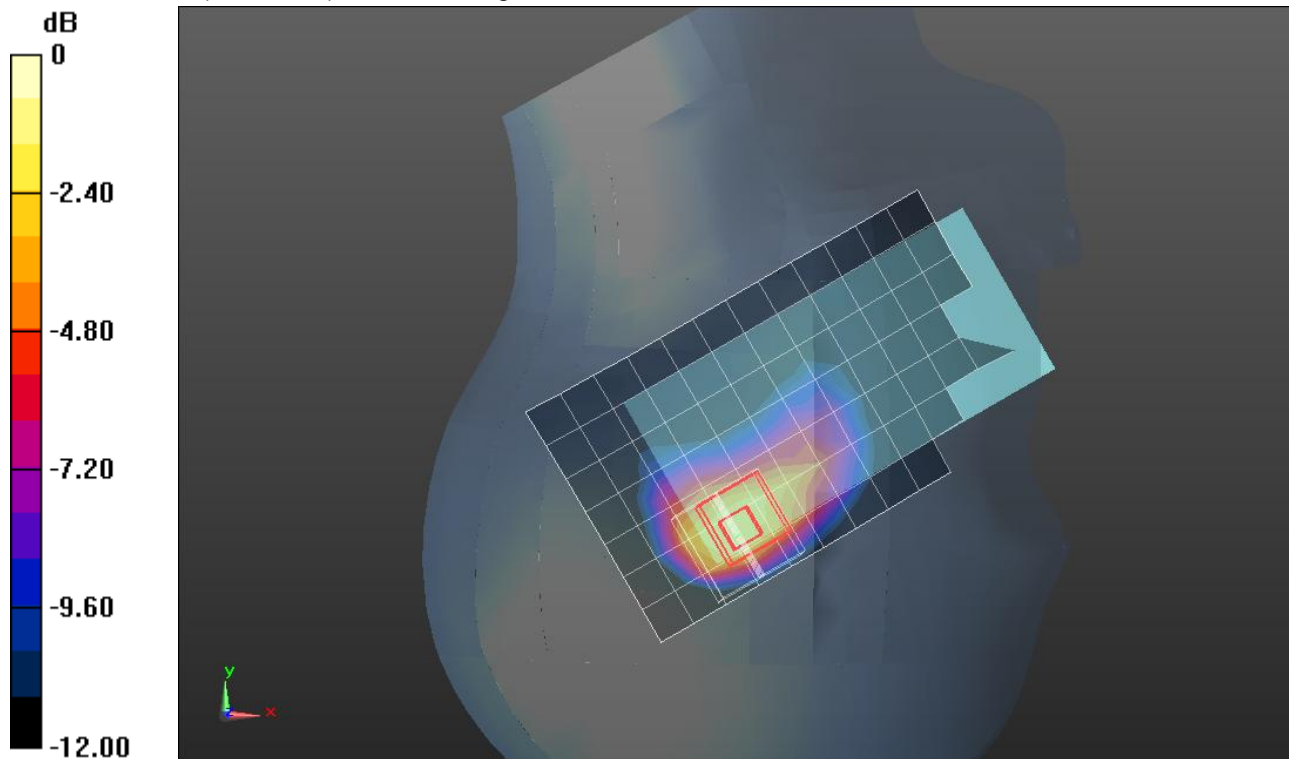
Reference Value = 17.930 V/m; Power Drift = 0.131 dB

Peak SAR (extrapolated) = 1.2620

**SAR(1 g) = 0.573 mW/g; SAR(10 g) = 0.259 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.836 mW/g



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

## WiFi 5 GHz band

Frequency: 5240 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C  
 Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 4.629 \text{ mho/m}$ ;  $\epsilon_r = 35.093$ ;  $\rho = 1000 \text{ kg/m}^3$

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(4.88, 4.88, 4.88); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

**RHS/Touch\_802.11a\_ch 48/Area Scan (9x16x1):** Measurement grid: dx=10mm, dy=10mm

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

**RHS/Touch\_802.11a\_ch 48/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm,

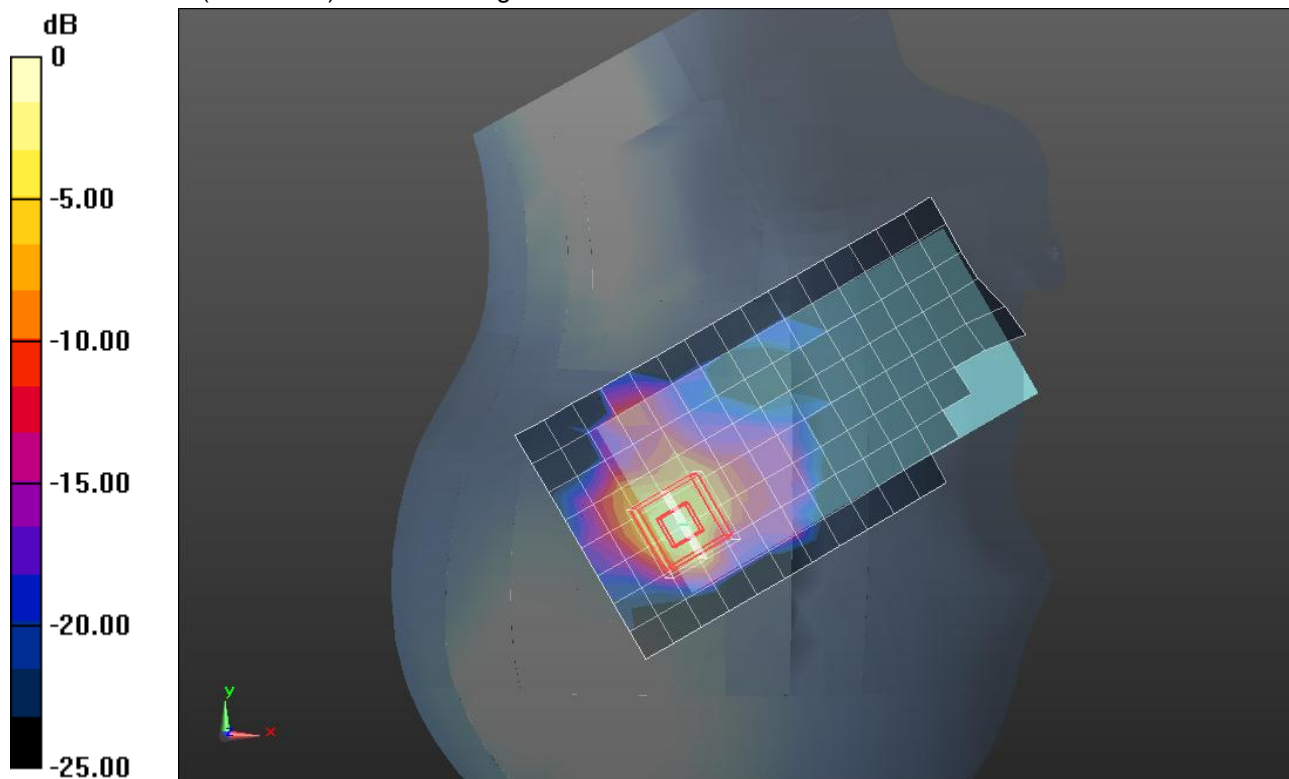
dz=2mm

Reference Value = 15.097 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.4610

**SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.156 mW/g**

Maximum value of SAR (measured) = 1.190 mW/g



0 dB = 1.190mW/g = 1.51 dB mW/g

## WiFi 5.3GHz

Frequency: 5260 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C  
 Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 4.563 \text{ mho/m}$ ;  $\epsilon_r = 35.162$ ;  $\rho = 1000 \text{ kg/m}^3$

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(4.62, 4.62, 4.62); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (B); Type: QD000P40CD; Serial: 1628

**RHS/Touch\_802.11a\_ch 52/Area Scan (9x16x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (measured) = 0.778 mW/g

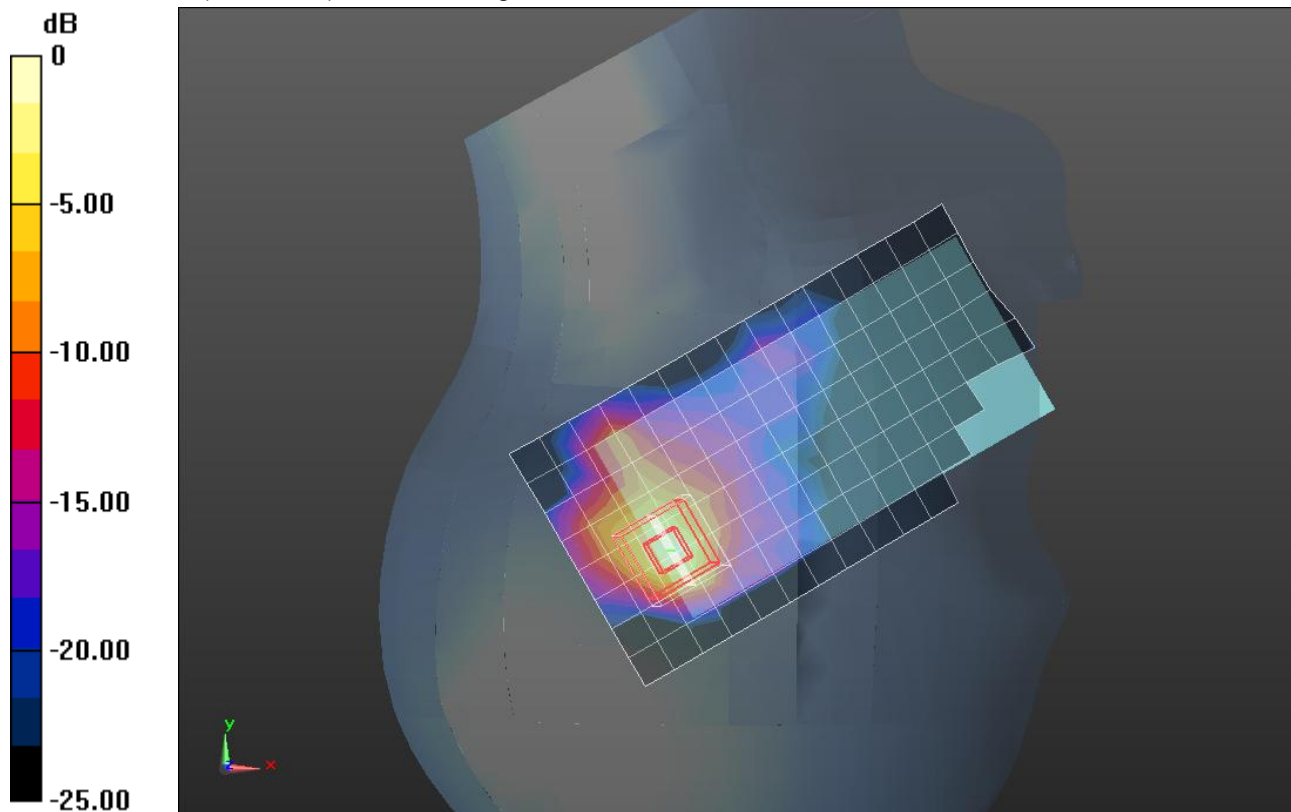
**RHS/Touch\_802.11a\_ch 52/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.996 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 2.0390

**SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.145 mW/g**

Maximum value of SAR (measured) = 1.034 mW/g



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



## WiFi 5 GHz band

Frequency: 5680 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C

Medium parameters used:  $f = 5680$  MHz;  $\sigma = 5.138$  mho/m;  $\epsilon_r = 34.789$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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(4.25, 4.25, 4.25); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

**RHS/Touch\_802.11a\_ch 136/Area Scan (9x16x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.839 mW/g

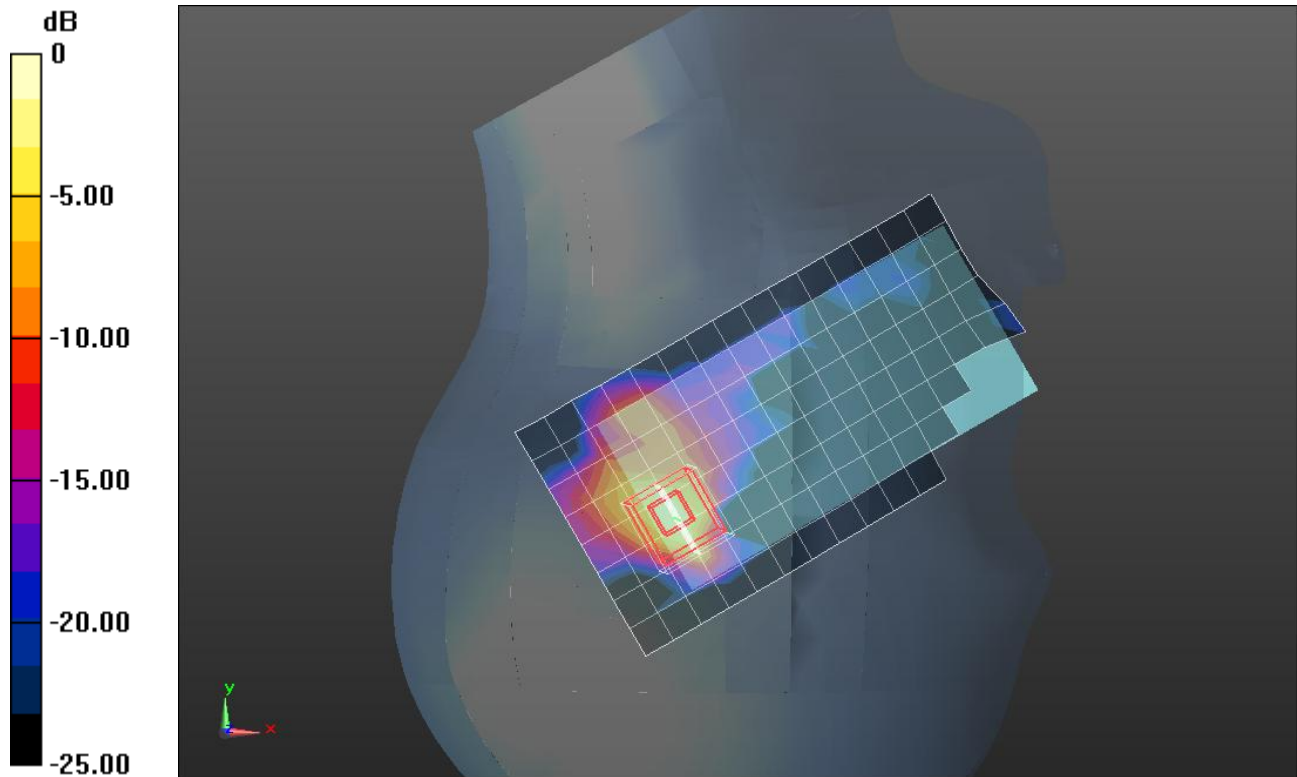
**RHS/Touch\_802.11a\_ch 136/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.221 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.3370

**SAR(1 g) = 0.556 mW/g; SAR(10 g) = 0.156 mW/g**

Maximum value of SAR (measured) = 1.160 mW/g



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



## WiFi 5 GHz band

Frequency: 5785 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 25.0°C; Liquid Temperature: 24.0°C  
 Medium parameters used:  $f = 5785 \text{ MHz}$ ;  $\sigma = 5.221 \text{ mho/m}$ ;  $\epsilon_r = 34.568$ ;  $\rho = 1000 \text{ kg/m}^3$

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(4.31, 4.31, 4.31); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

**RHS/Touch\_802.11a\_ch 157/Area Scan (9x16x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.893 mW/g

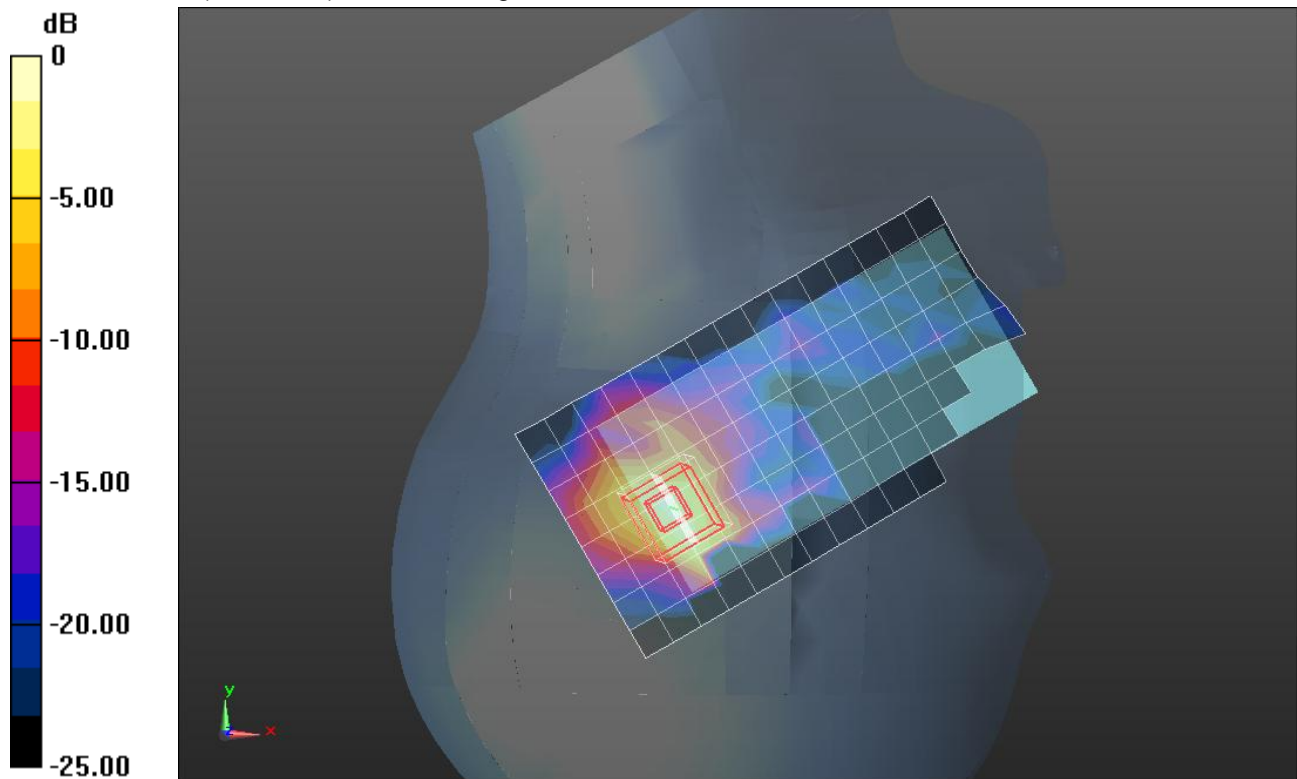
**RHS/Touch\_802.11a\_ch 157/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.767 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.4940

**SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.182 mW/g**

Maximum value of SAR (measured) = 1.095 mW/g



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