

Test Laboratory: UL CCS SAR Lab B

**GSM850**

Communication System: GPRS-FDD(TDMA,GMSK, 1 slot); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042  
 Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.891$  mho/m;  $\epsilon_r = 41.244$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Left Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(9.81, 9.81, 9.81); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM; Type: QD000P40CD; Serial: 1629
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

**Left/Touch\_M ch/Area Scan (10x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.464 mW/g

**Left/Touch\_M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

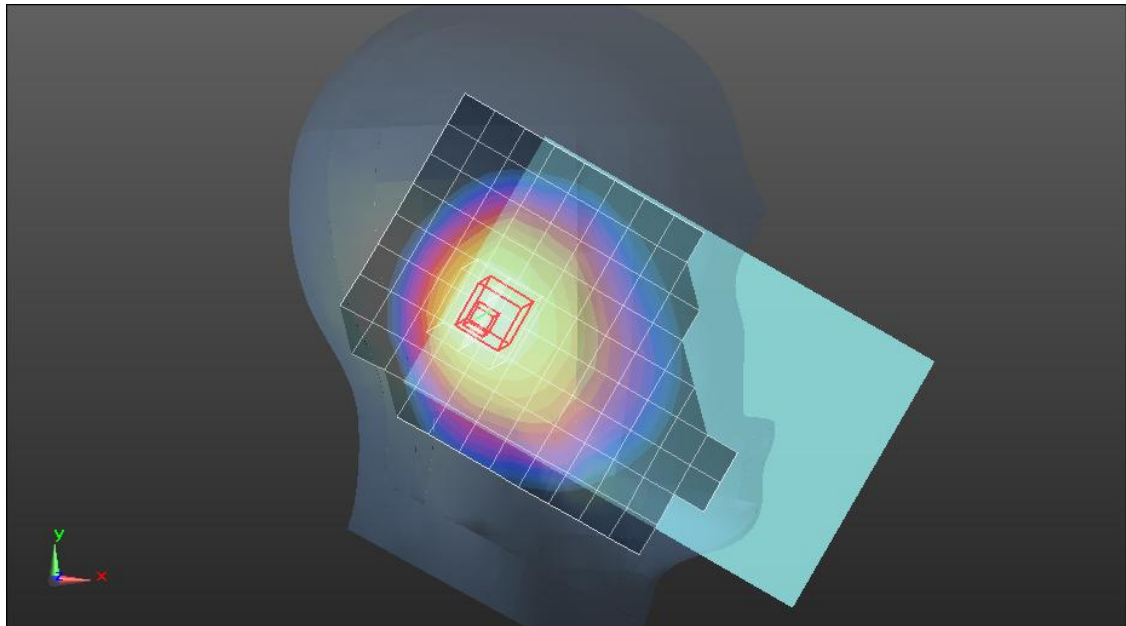
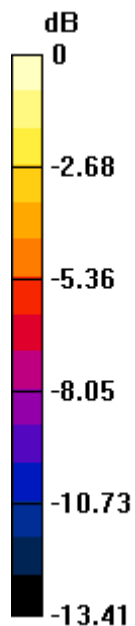
Reference Value = 22.926 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.6090

**SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.291 mW/g**

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

Maximum value of SAR (measured) = 0.503 mW/g



0 dB = 0.500mW/g = -6.02 dB mW/g

Test Laboratory: UL CCS SAR Lab B

## GSM850

Communication System: GPRS-FDD (TDMA, GMSK, 1 slot); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.891$  mho/m;  $\epsilon_r = 41.244$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(9.81, 9.81, 9.81); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM; Type: QD000P40CD; Serial: 1629
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Left/Tilt\_M ch/Area Scan (10x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.537 mW/g

**Left/Tilt\_M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

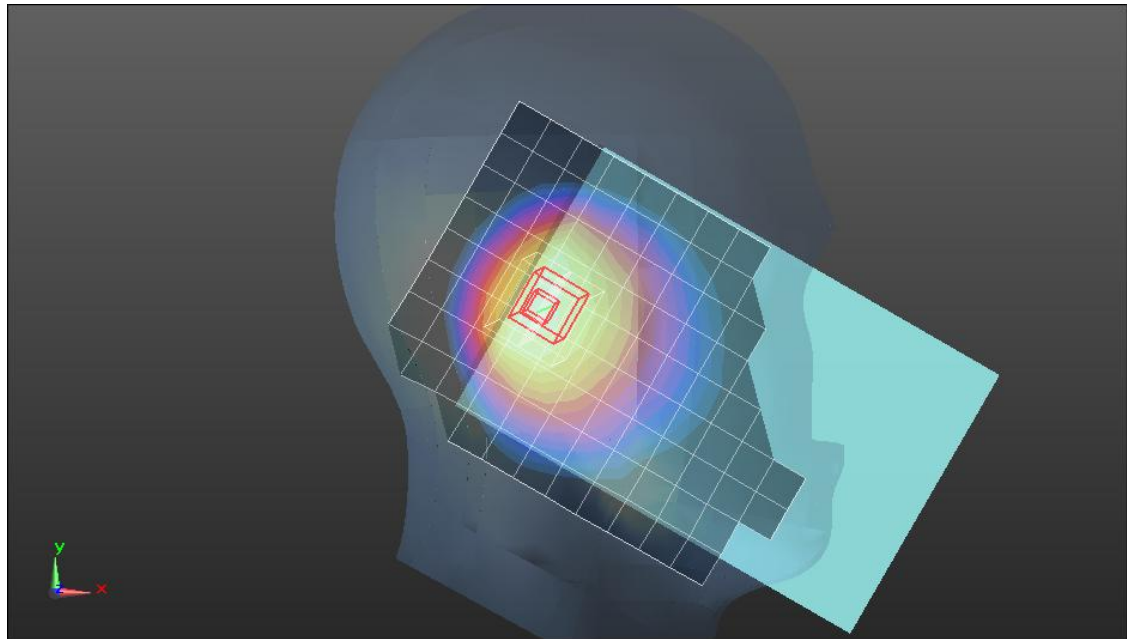
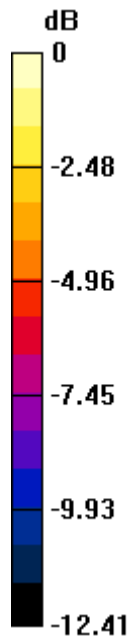
Reference Value = 24.872 V/m; Power Drift = 0.0059 dB

Peak SAR (extrapolated) = 0.6810

**SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.321 mW/g**

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

Maximum value of SAR (measured) = 0.568 mW/g



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

Test Laboratory: UL CCS SAR Lab B

## GSM850

Communication System: GPRS-FDD(TDMA,GMSK, 1 slot); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.891$  mho/m;  $\epsilon_r = 41.244$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(9.81, 9.81, 9.81); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM; Type: QD000P40CD; Serial: 1629
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

**Right/Touch\_M ch/Area Scan (10x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.908 mW/g

**Right/Touch\_M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

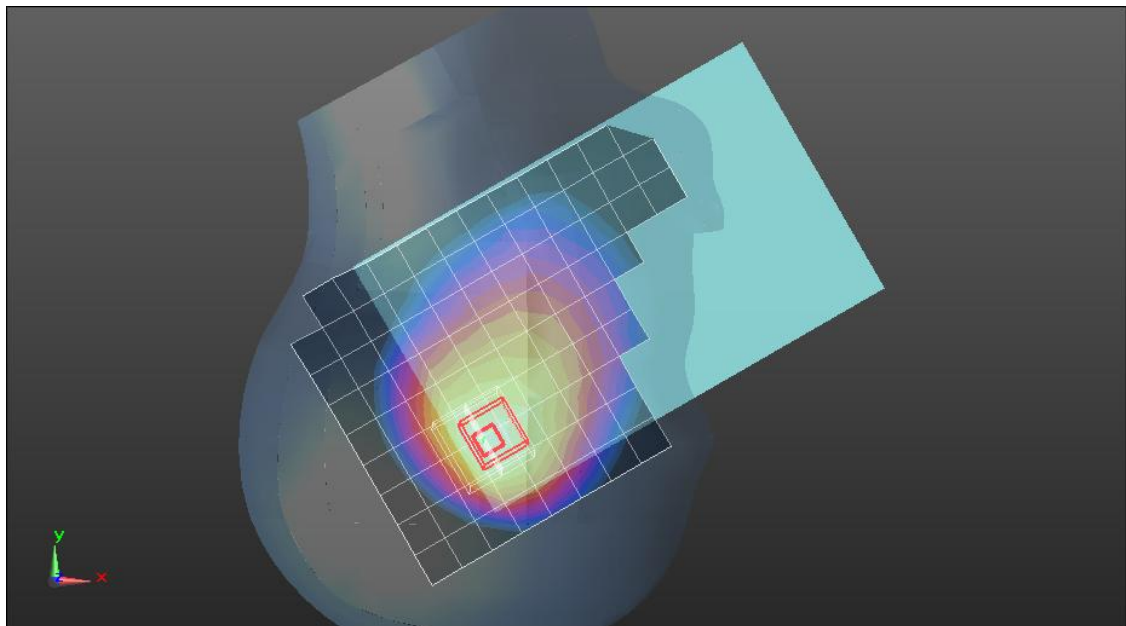
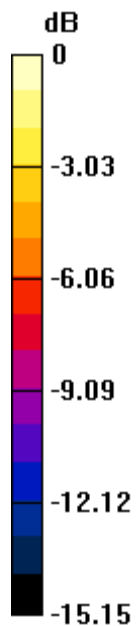
Reference Value = 32.577 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.2360

**SAR(1 g) = 0.795 mW/g; SAR(10 g) = 0.512 mW/g**

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

Maximum value of SAR (measured) = 0.973 mW/g



0 dB = 0.970mW/g = -0.26 dB mW/g

Test Laboratory: UL CCS SAR Lab B

## GSM850

Communication System: GPRS-FDD(TDMA,GMSK, 1 slot); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.891$  mho/m;  $\epsilon_r = 41.244$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(9.81, 9.81, 9.81); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: SAM; Type: QD000P40CD; Serial: 1629
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

**Right/Tilt\_M ch/Area Scan (10x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.941 mW/g

**Right/Tilt\_M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

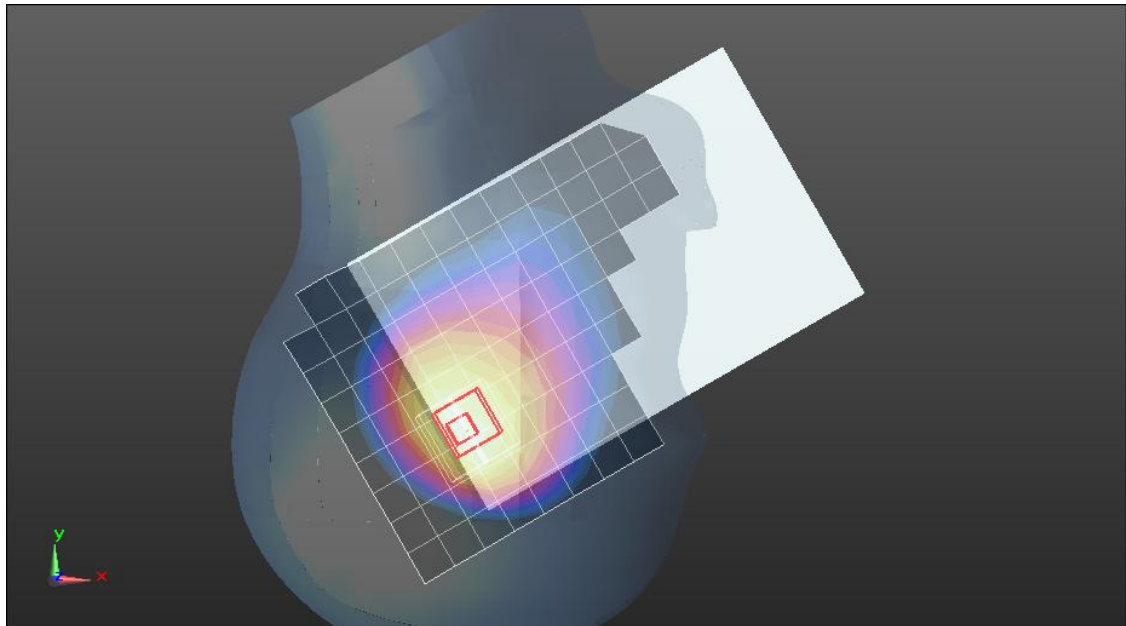
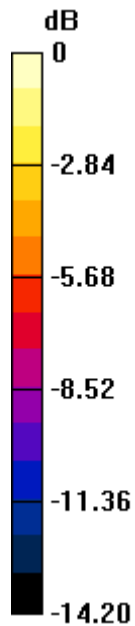
Reference Value = 32.867 V/m; Power Drift = 0.00059 dB

Peak SAR (extrapolated) = 1.2100

**SAR(1 g) = 0.765 mW/g; SAR(10 g) = 0.492 mW/g**

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

Maximum value of SAR (measured) = 0.935 mW/g



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

Test Laboratory: UL CCS SAR Lab B

**GSM850**

Communication System: GPRS-FDD (TDMA, GMSK, 3 slot); Frequency: 836.6 MHz; Duty Cycle: 1:2.60016  
 Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.994$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10, 10, 10); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Rear 8mm\_GPRS\_3 slots/M-Ch/Area Scan (11x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.445 mW/g

**Rear 8mm\_GPRS\_3 slots /M-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

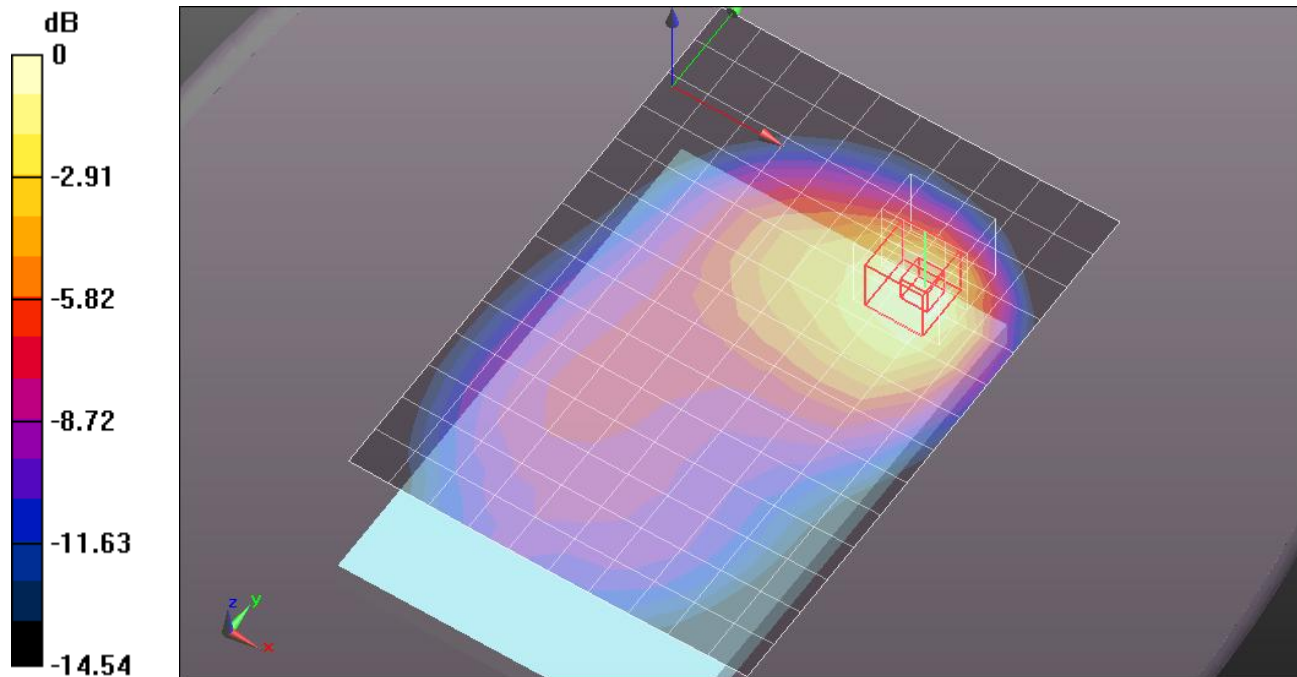
Reference Value = 21.627 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.6250

**SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.267 mW/g**

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

Maximum value of SAR (measured) = 0.514 mW/g



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

Test Laboratory: UL CCS SAR Lab B

## GSM850

Communication System: GPRS-FDD (TDMA, GMSK, 3 slot); Frequency: 836.6 MHz; Duty Cycle: 1:2.60016  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.994$  mho/m;  $\epsilon_r = 53.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10, 10, 10); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Edge 1 5mm\_GPRS\_3 slots/M-Ch/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

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

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

**Edge 1 5mm\_GPRS\_3 slots /M-Ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

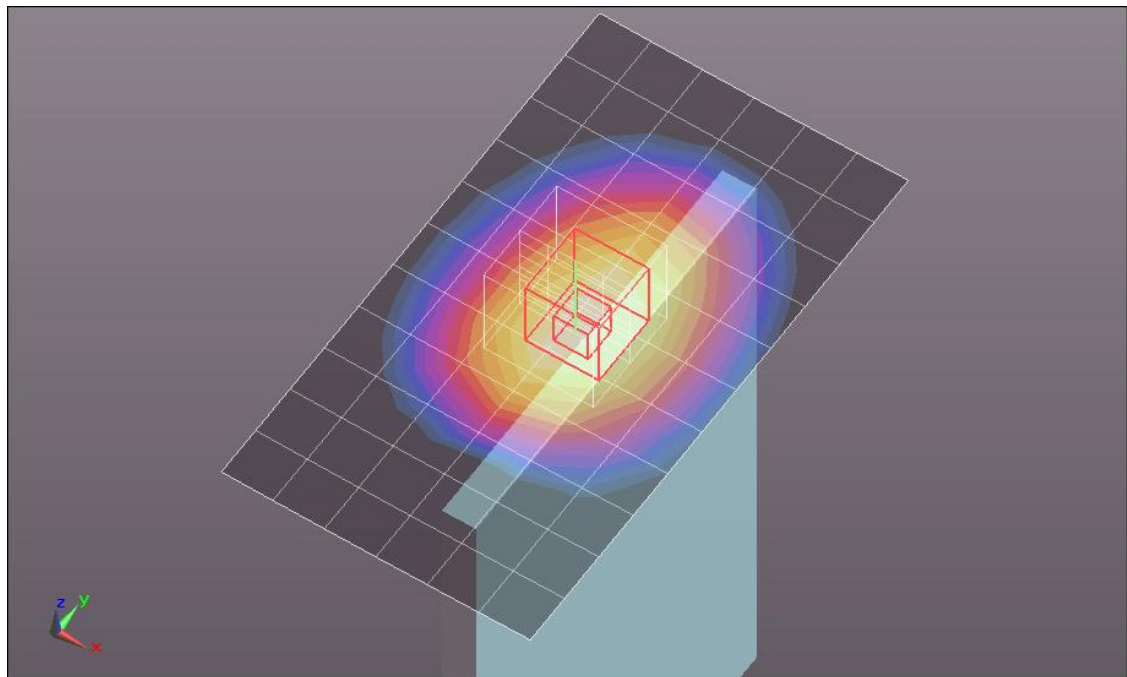
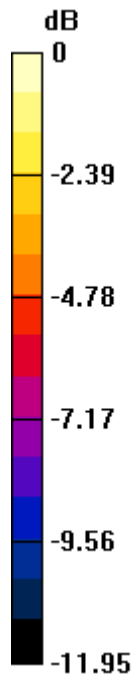
Reference Value = 23.822 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.6990

**SAR(1 g) = 0.487 mW/g; SAR(10 g) = 0.322 mW/g**

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

Maximum value of SAR (measured) = 0.584 mW/g



0 dB = 0.580mW/g = -4.73 dB mW/g

Test Laboratory: UL CCS SAR Lab B

**GSM850**

Communication System: GPRS-FDD (TDMA, GMSK, 3 slot); Frequency: 836.6 MHz; Duty Cycle: 1:2.60016  
 Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.975$  mho/m;  $\epsilon_r = 53.354$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10, 10, 10); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Edge 1 at 45deg\_GPRS\_3 slots/M ch/Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.300 mW/g

**Edge 1 at 45deg\_GPRS\_3 slots/M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm,

dy=8mm, dz=5mm

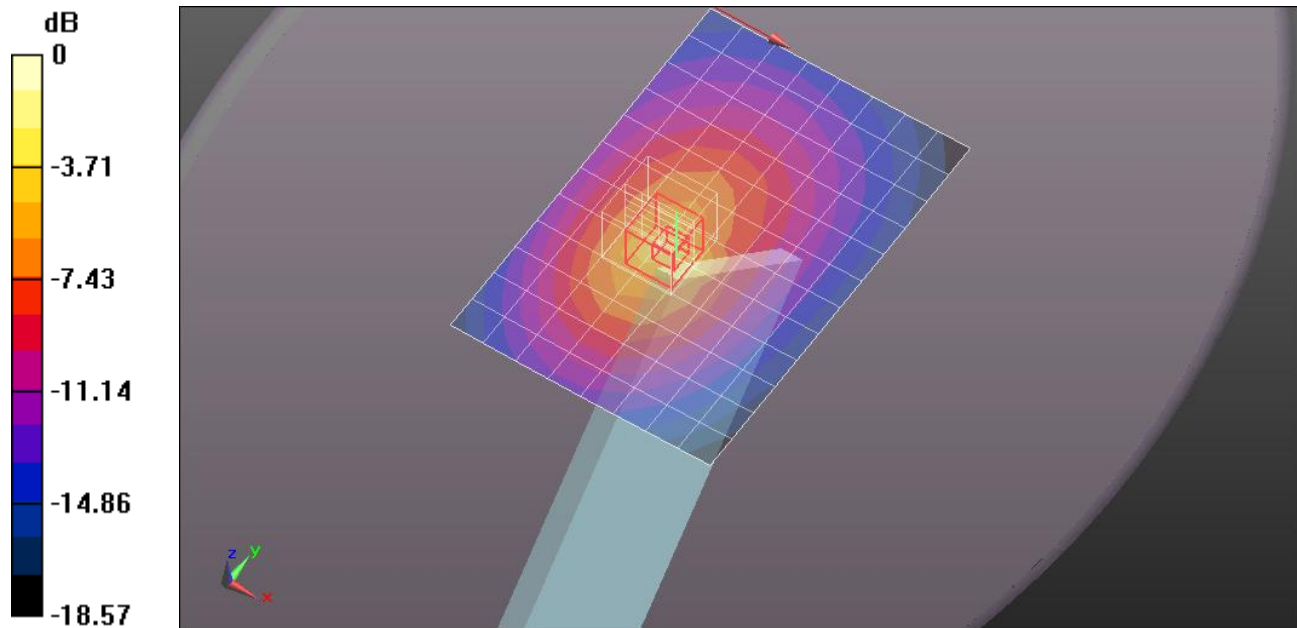
Reference Value = 17.757 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.8250

**SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.125 mW/g**

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

Maximum value of SAR (measured) = 0.443 mW/g



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

Test Laboratory: UL CCS SAR Lab B

## GSM850

Communication System: GPRS-FDD (TDMA, GMSK, 3 slot); Frequency: 836.6 MHz; Duty Cycle: 1:2.60016  
 Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.998$  mho/m;  $\epsilon_r = 54.381$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10, 10, 10); Calibrated: 12/19/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

**Edge 4\_GPRS\_3 slots/M-Ch/Area Scan (8x16x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.449 mW/g

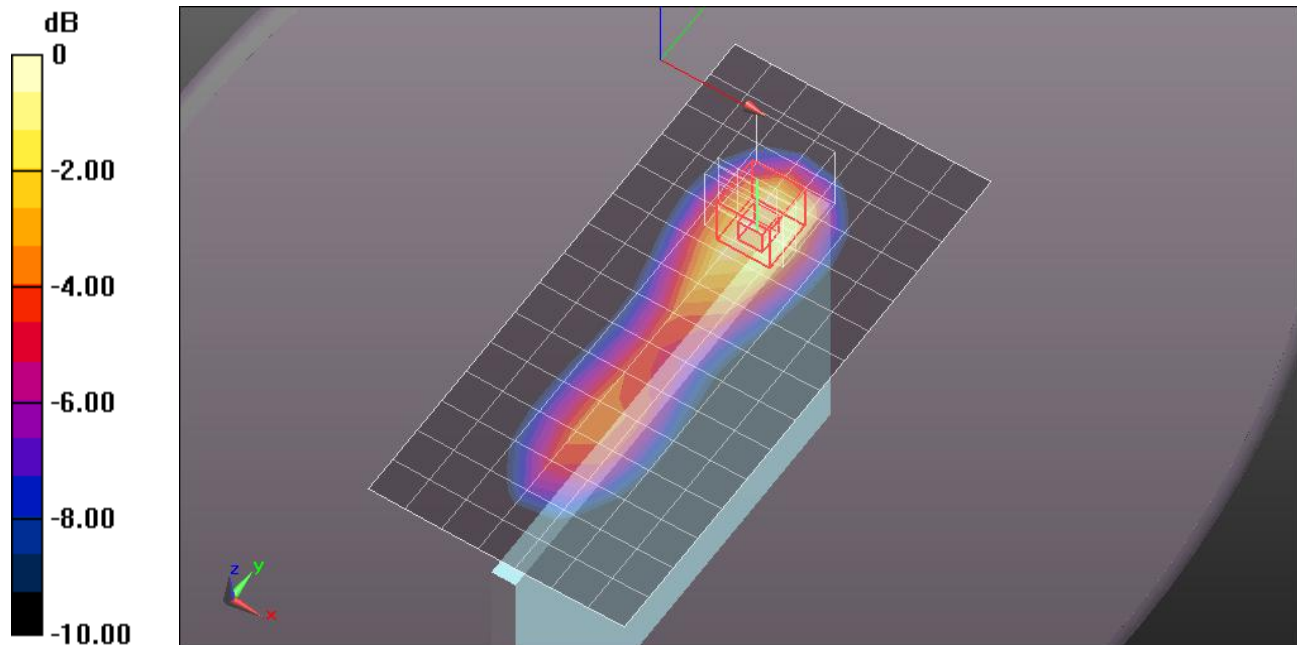
**Edge 4\_GPRS\_3 slots/M-Ch /Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.364 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.7150

**SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.277 mW/g**

Maximum value of SAR (measured) = 0.494 mW/g



0 dB = 0.490mW/g = -6.20 dB mW/g

Test Laboratory: UL CCS SAR Lab B

**GSM850**

Communication System: GPRS-FDD (TDMA, GMSK, 3 slot); Frequency: 836.6 MHz; Duty Cycle: 1:2.60016  
 Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.998$  mho/m;  $\epsilon_r = 54.381$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10, 10, 10); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Rear with power back off\_GPRS\_3 slots/M ch/Area Scan (11x13x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (measured) = 0.665 mW/g

**Rear with power back off\_GPRS\_3 slots/M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

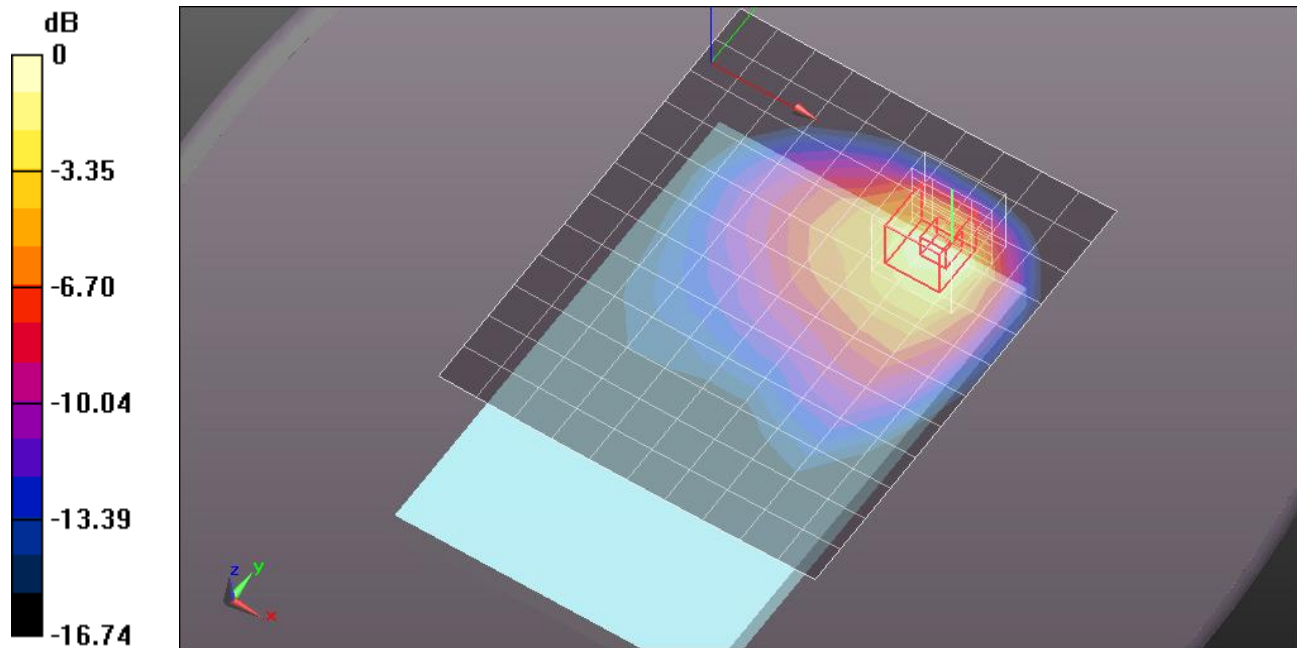
Reference Value = 26.341 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.1090

**SAR(1 g) = 0.569 mW/g; SAR(10 g) = 0.314 mW/g**

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

Maximum value of SAR (measured) = 0.737 mW/g



0 dB = 0.740mW/g = -2.62 dB mW/g

Test Laboratory: UL CCS SAR Lab B

**GSM850**

Communication System: GPRS-FDD (TDMA, GMSK, 3 slot); Frequency: 836.6 MHz; Duty Cycle: 1:2.60016  
 Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.998$  mho/m;  $\epsilon_r = 54.381$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10, 10, 10); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

**Rear with power back off\_GPRS\_3 slots/M ch w/Headset/Area Scan (11x13x1):**

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (measured) = 0.733 mW/g

**Rear with power back off\_GPRS\_3 slots/M ch w/Headset/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=8mm, dy=8mm, dz=5mm

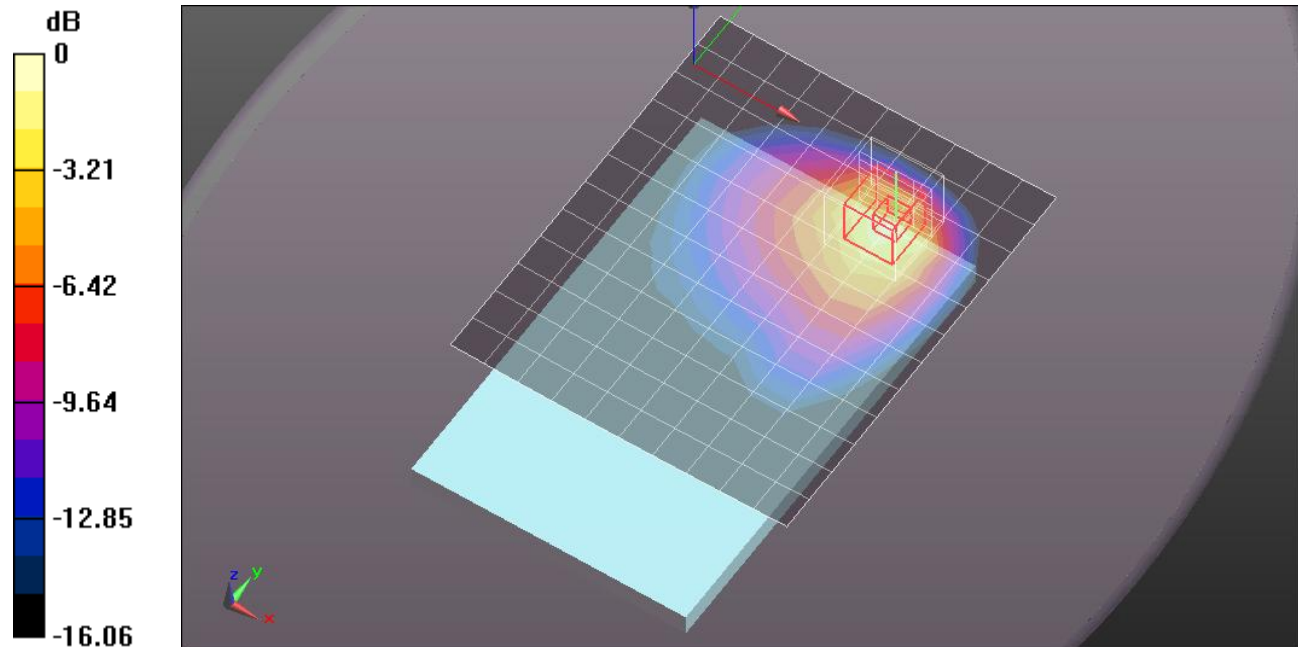
Reference Value = 27.400 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.1220

**SAR(1 g) = 0.620 mW/g; SAR(10 g) = 0.346 mW/g**

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

Maximum value of SAR (measured) = 0.842 mW/g



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

Test Laboratory: UL CCS SAR Lab B

## GSM850

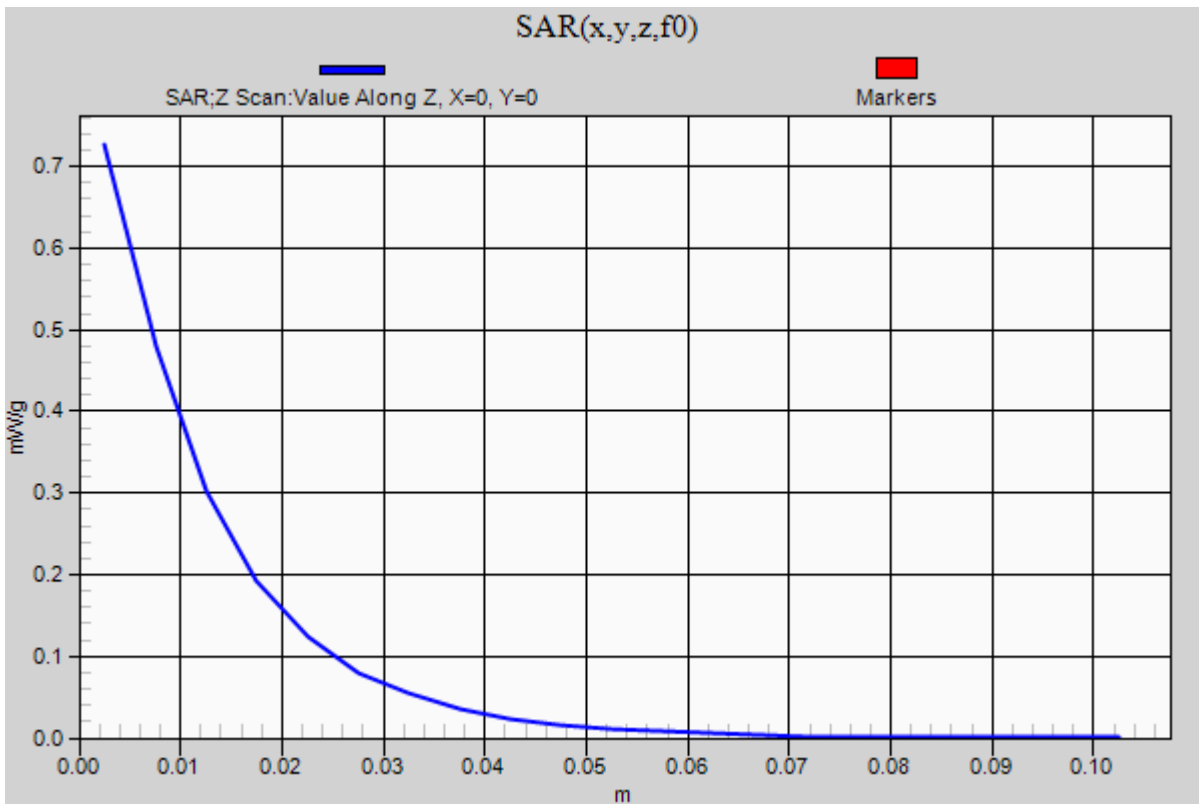
Communication System: GPRS-FDD (TDMA, GMSK, 3 slot); Frequency: 836.6 MHz; Duty Cycle: 1:2.60016

**Rear with power back off\_GPRS\_3 slots/M ch w/Headset/Z Scan (1x1x21):** Measurement grid:

$dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=5\text{mm}$

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

Maximum value of SAR (measured) = 0.727 mW/g



Test Laboratory: UL CCS SAR Lab B

## GSM850

Communication System: GPRS-FDD (TDMA, GMSK, 3 slot); Frequency: 836.6 MHz; Duty Cycle: 1:2.60016  
 Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.998$  mho/m;  $\epsilon_r = 54.381$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(10, 10, 10); Calibrated: 12/19/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118
- Measurement SW: DASY52, Version 52.8 (0); SEMCAD X Version 14.6.4 (4989)

### Edge 1 with power back off\_GPRS\_3 slots/M ch/Area Scan (6x11x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (measured) = 0.547 mW/g

### Edge 1 with power back off\_GPRS\_3 slots/M ch/Zoom Scan (5x5x7)/Cube 0: Measurement

grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

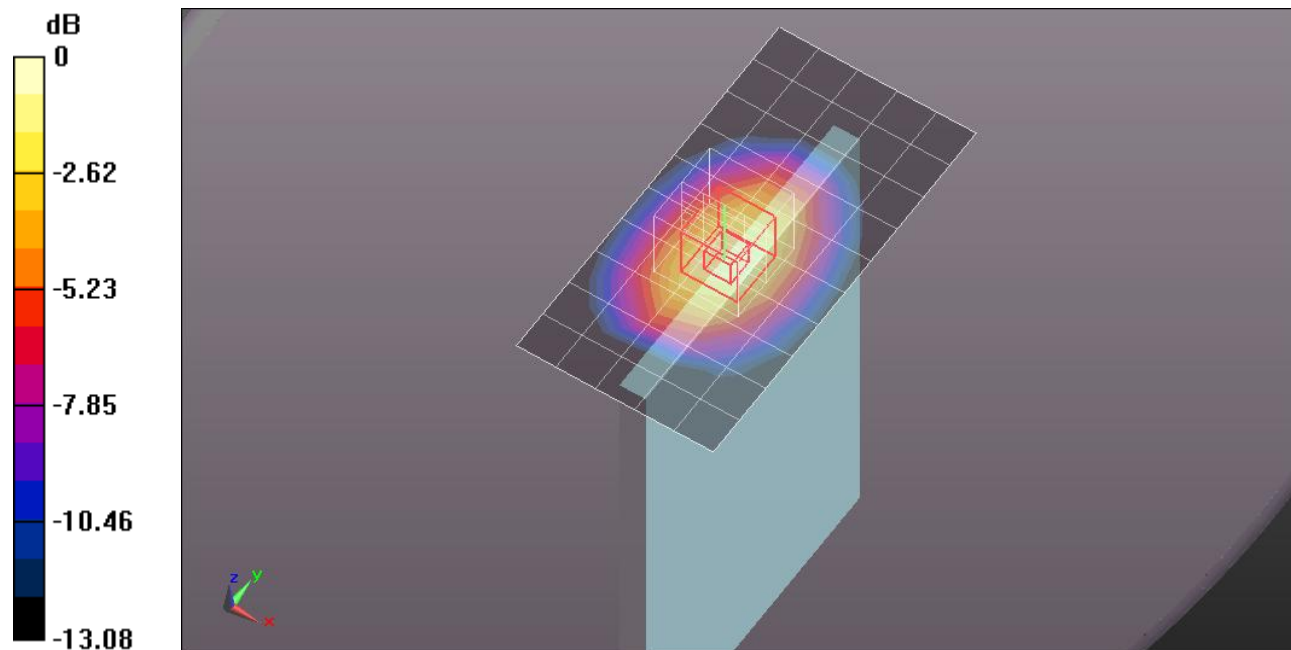
Reference Value = 23.736 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.8420

**SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.320 mW/g**

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

Maximum value of SAR (measured) = 0.674 mW/g



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