

DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:2.77
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.991 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Rear, GSM850 GPRS Class 11 Ch. 251, Ant Internal

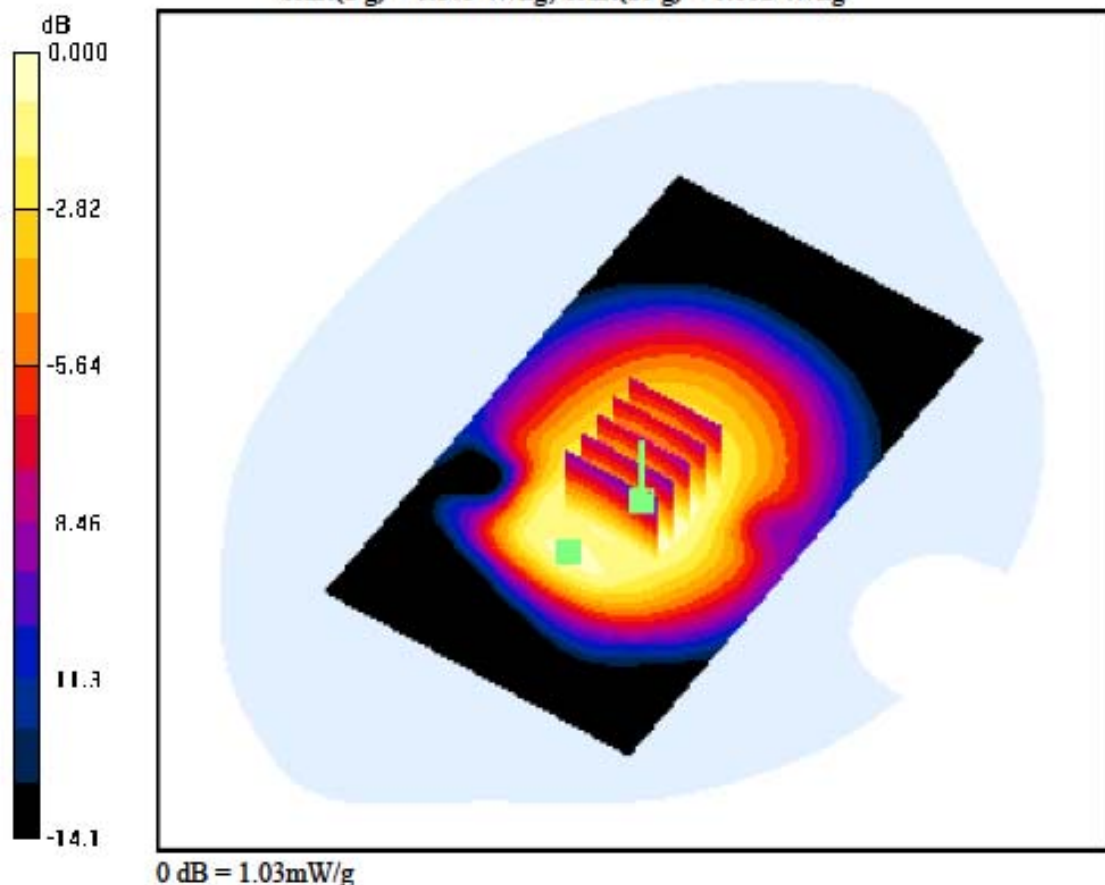
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.873 W/kg; SAR(10 g) = 0.602 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:2.77
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.991 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Rear, GSM850 GPRS Class 11 Ch. 251, Ant Internal

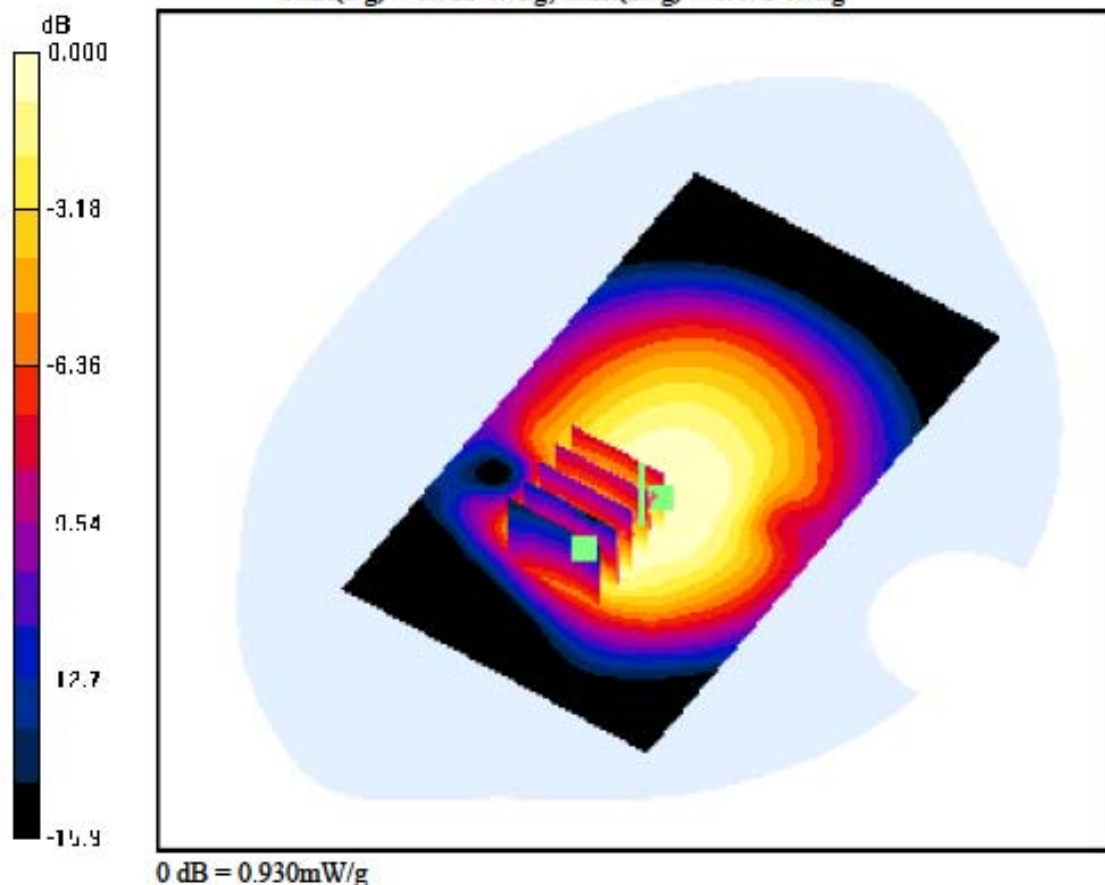
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.030 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.711 W/kg; SAR(10 g) = 0.471 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.937 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

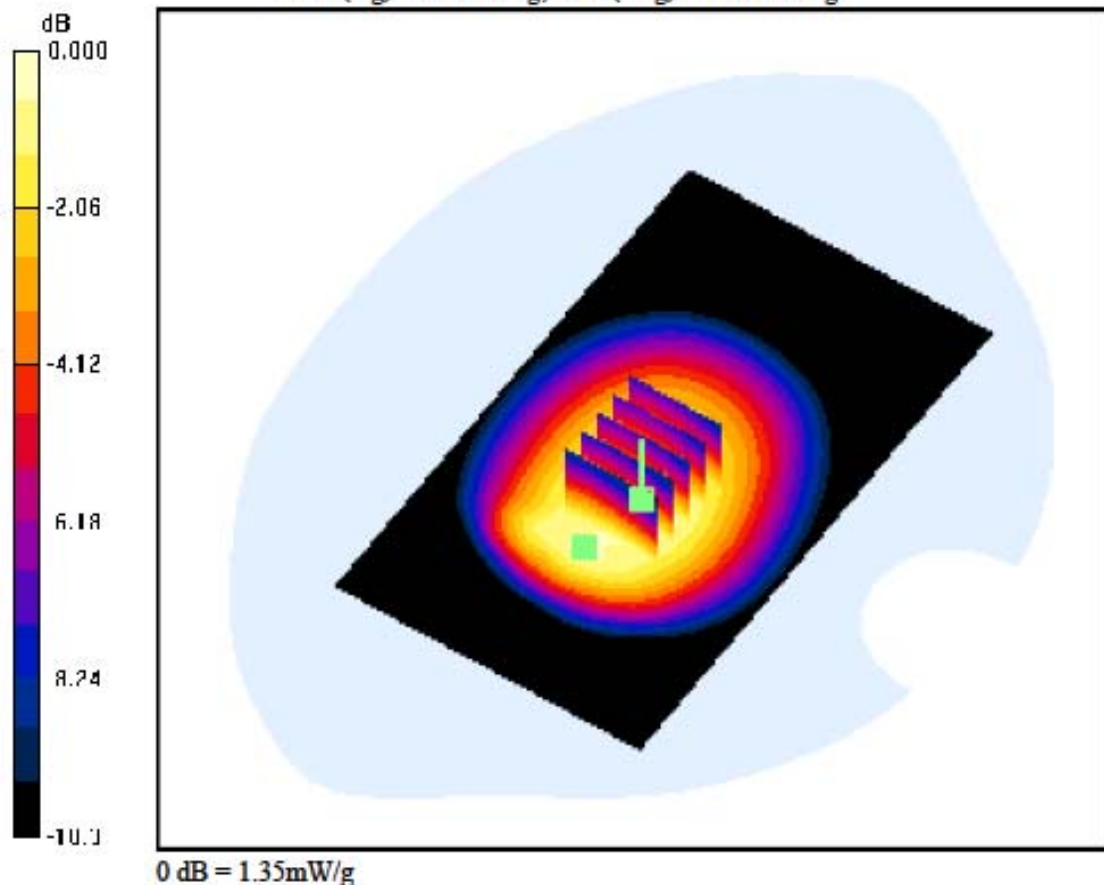
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Rear, GSM850 GPRS Class 12 Ch. 128, Ant Internal

Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Power Drift = -0.009 dB
Peak SAR (extrapolated) = 1.57 W/kg
SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.850 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.937 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519

Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Rear, GSM850 GPRS Class 12 Ch. 128, Ant Internal

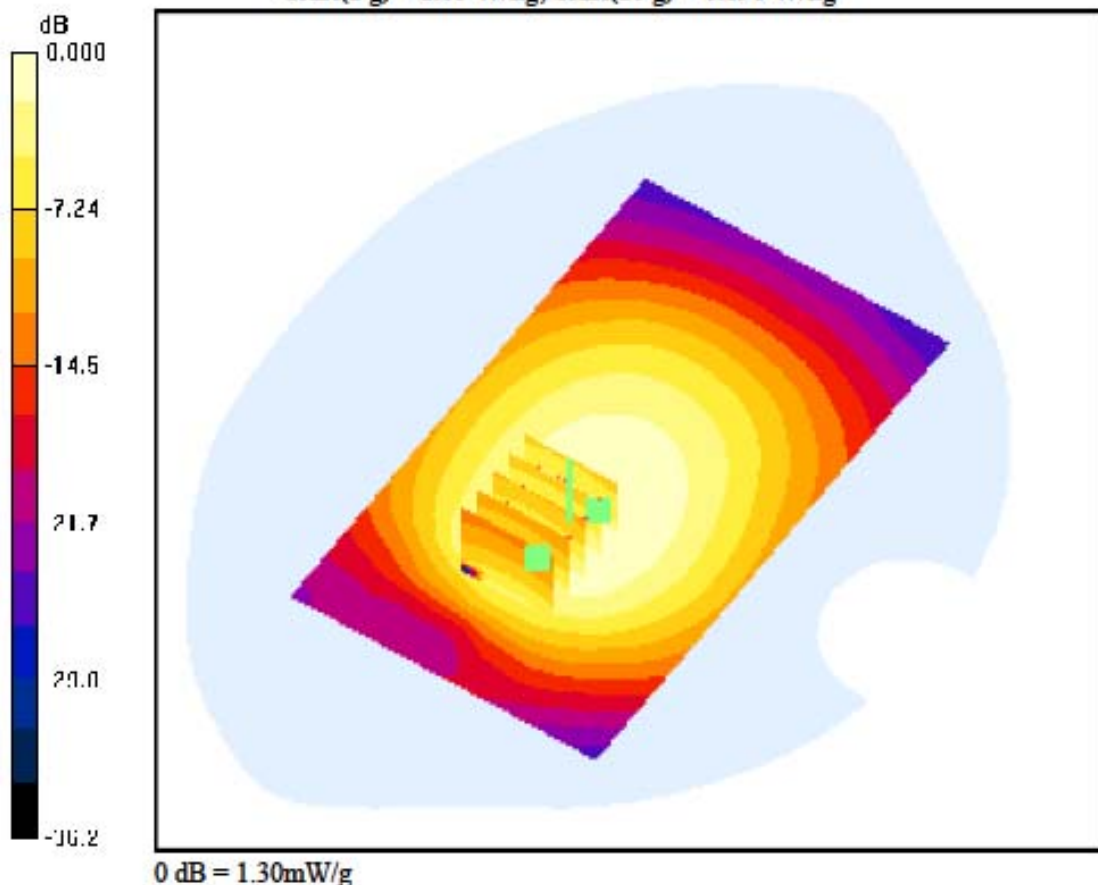
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.009 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.696 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.971 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section**DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519

Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Rear, GSM850 GPRS Class 12 Ch. 190, Ant Internal

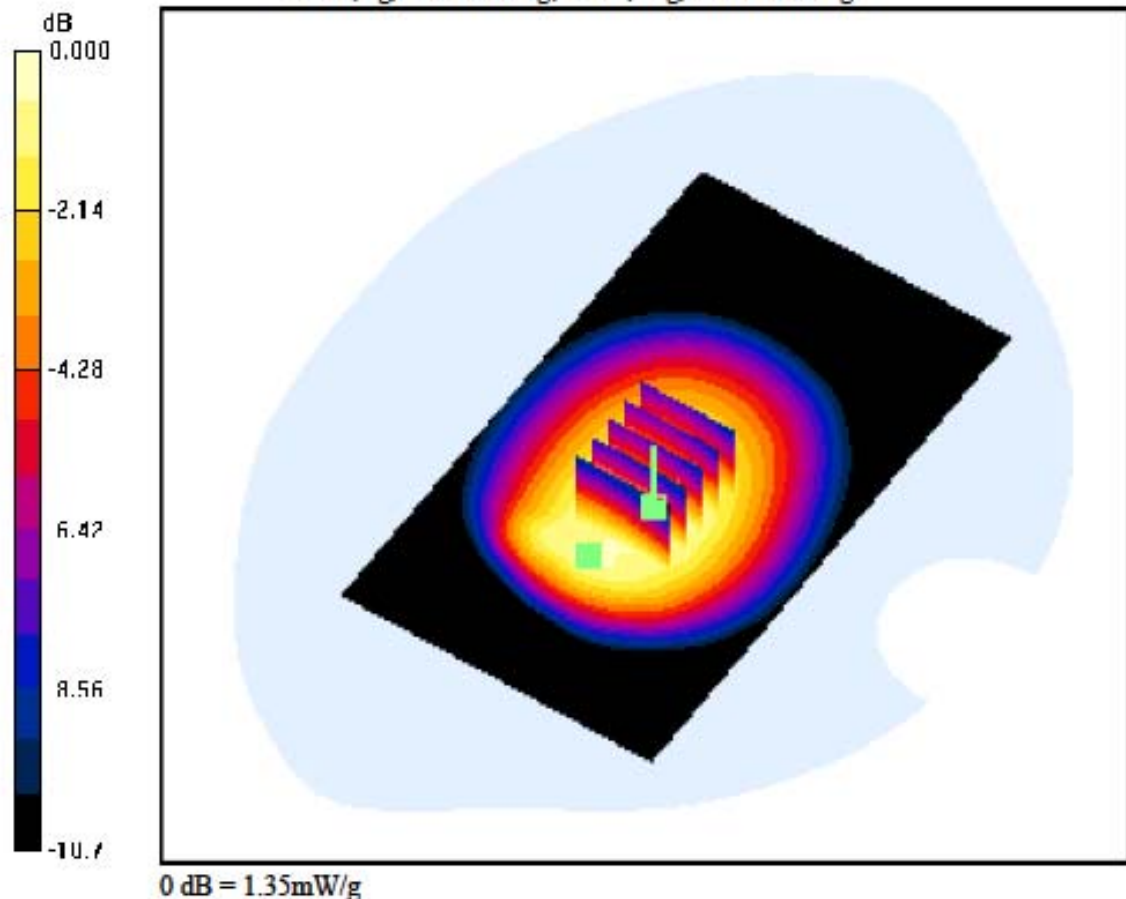
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.003 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.848 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.971 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

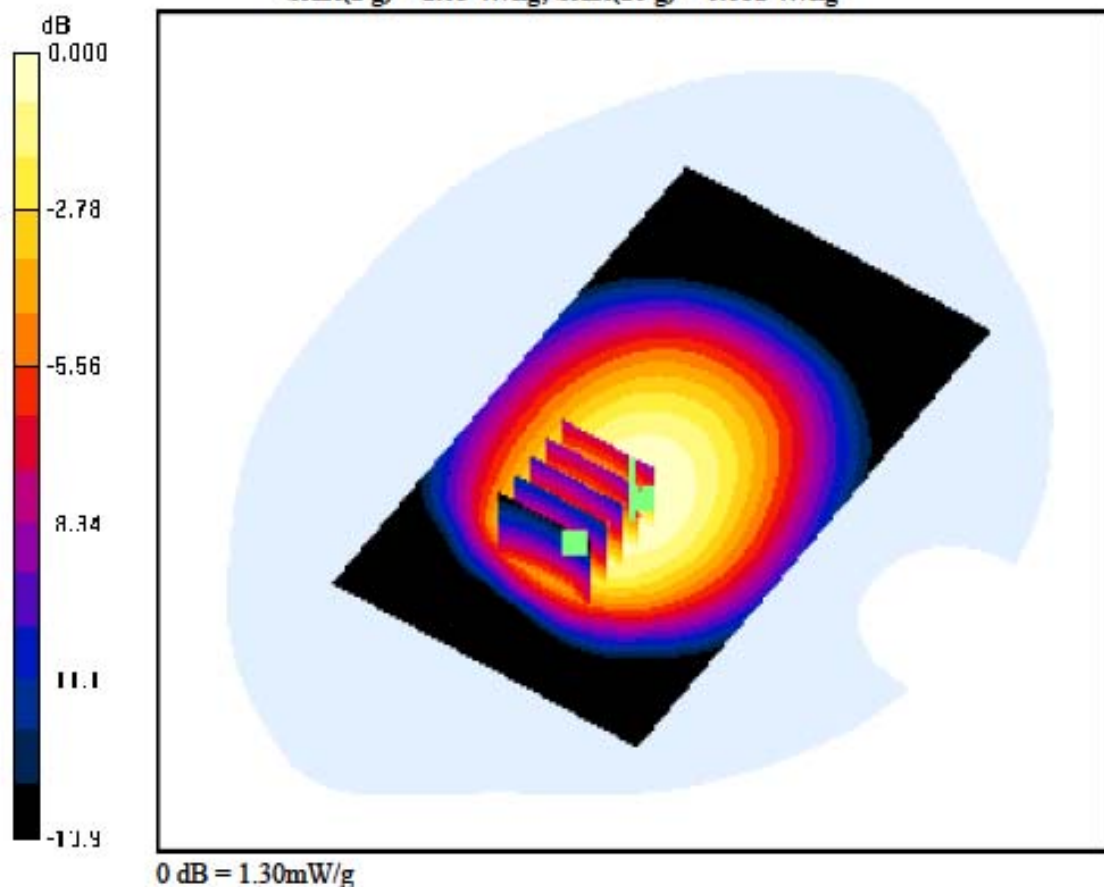
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Rear, GSM850 GPRS Class 12 Ch. 190, Ant Internal

Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Power Drift = -0.003 dB
Peak SAR (extrapolated) = 1.53 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.681 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.991 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Rear, GSM850 GPRS Class 12 Ch. 251, Ant Internal

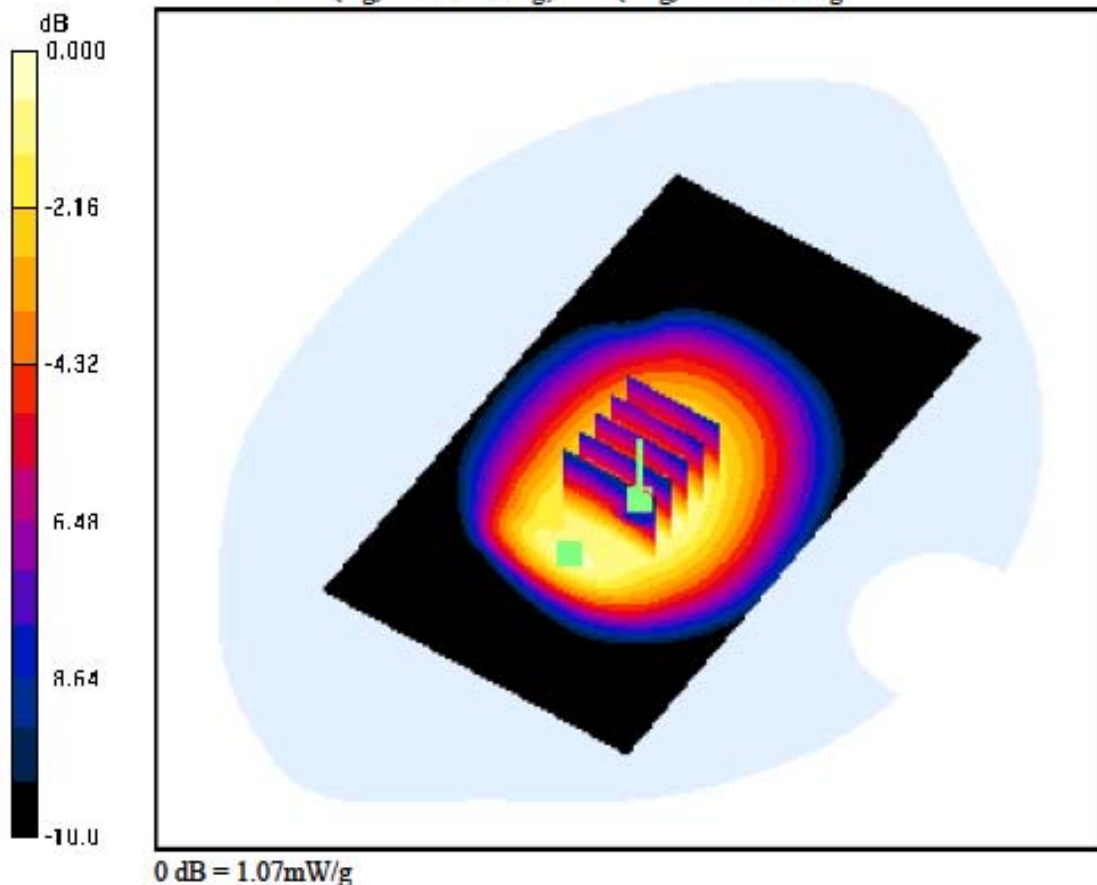
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.198 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.924 W/kg; SAR(10 g) = 0.665 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.991 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Rear, GSM850 GPRS Class 12 Ch. 251, Ant Internal

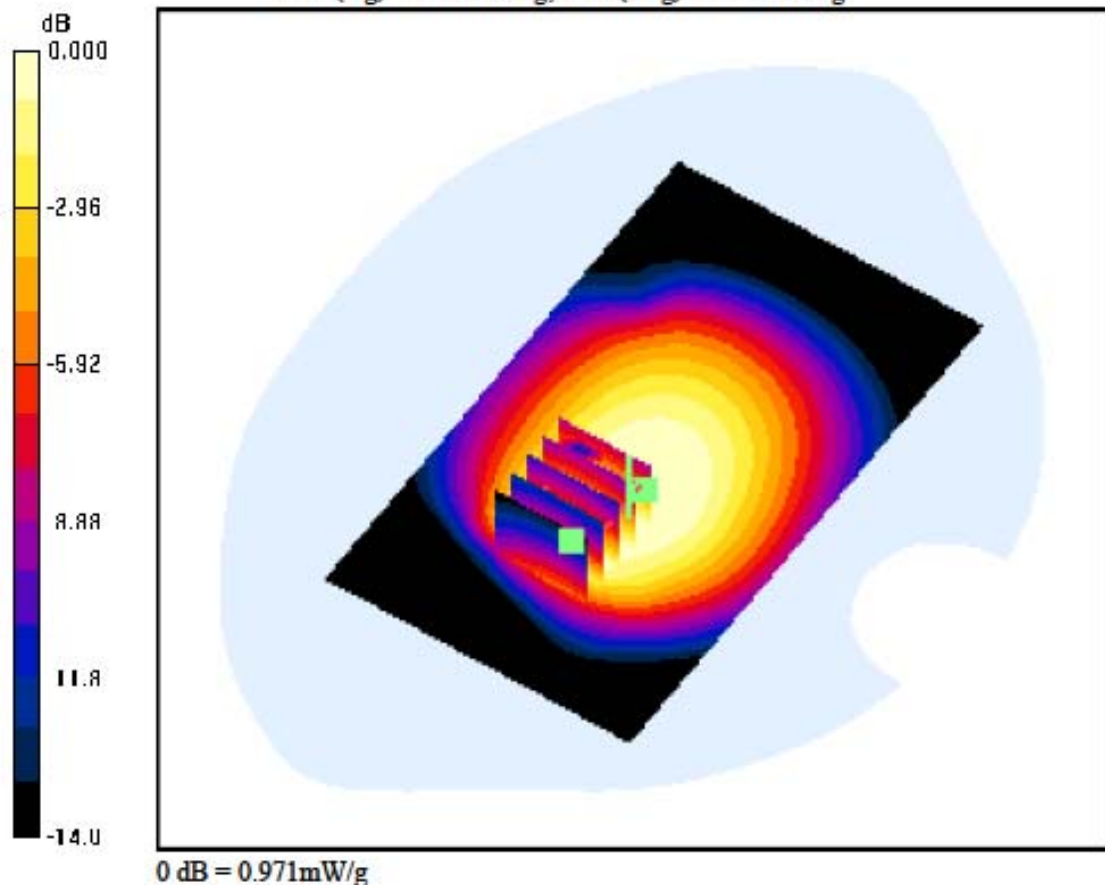
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.198 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.489 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.971 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

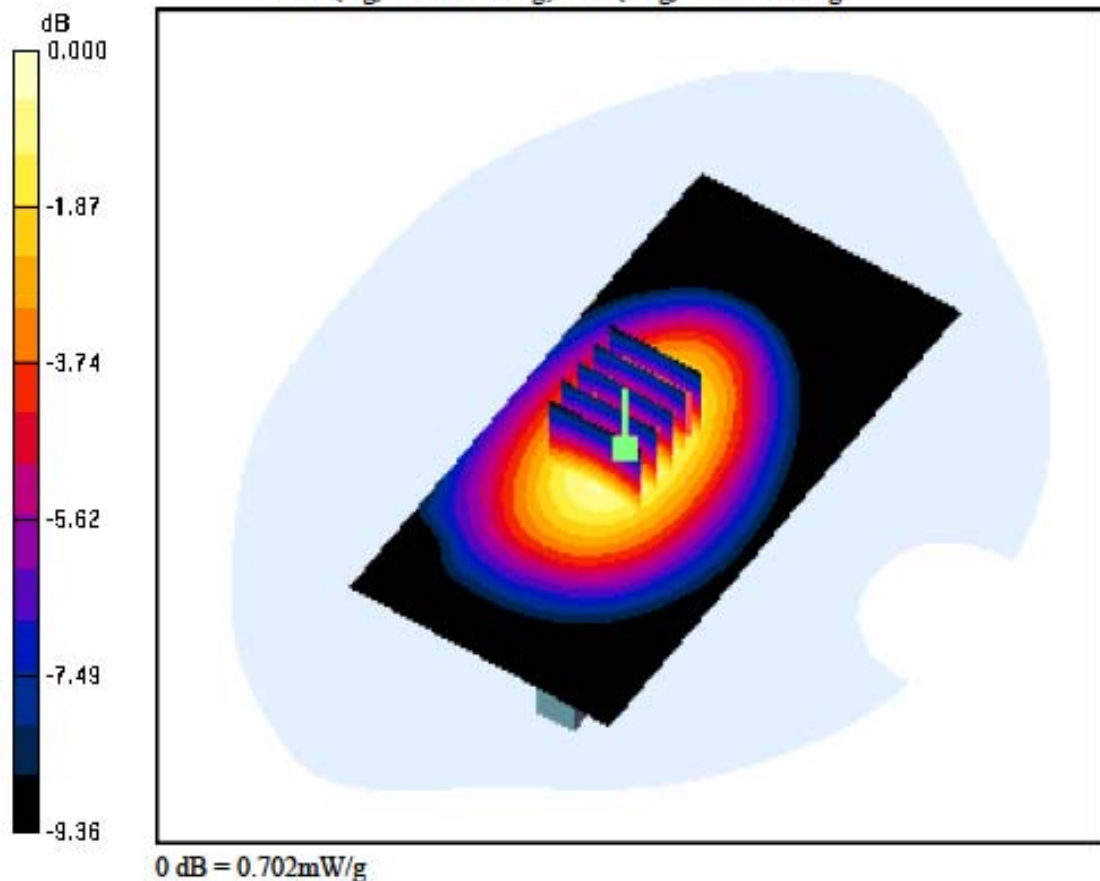
Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Right, GSM850 GPRS Class 12 Ch. 190, Ant Internal**Area Scan (61x121x1):** Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.045 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.595 W/kg; SAR(10 g) = 0.408 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.971 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

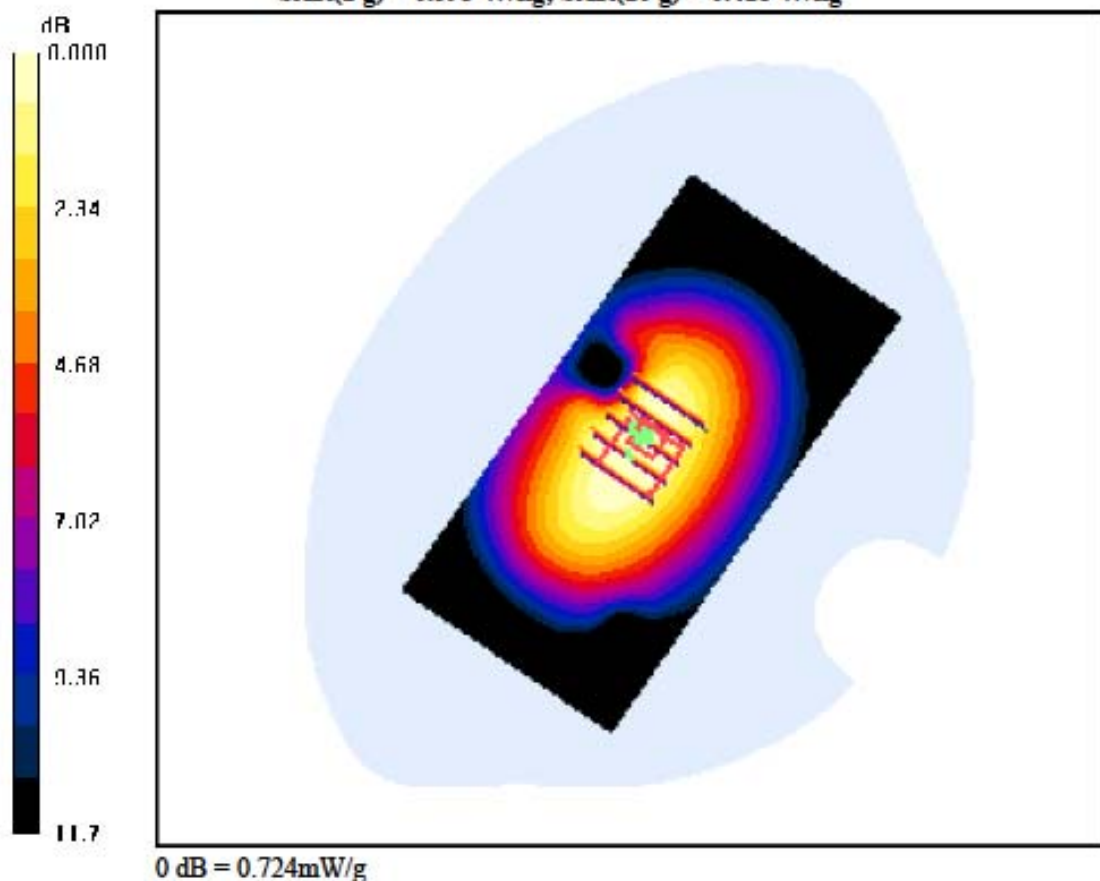
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Left, GSM850 GPRS Class 12 Ch. 190, Ant Internal

Area Scan (61x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Power Drift = -0.156 dB
Peak SAR (extrapolated) = 0.857 W/kg
SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.418 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

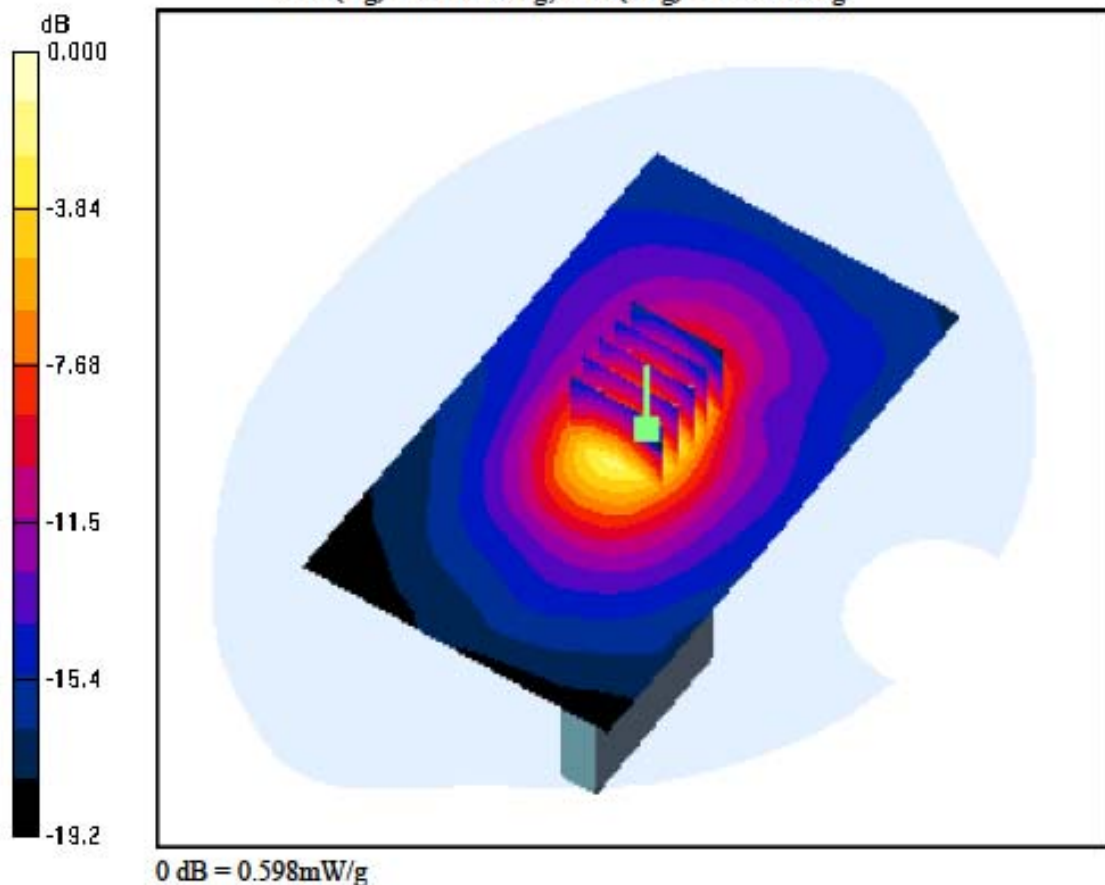
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Bottom, PCS1900 GPRS Class 12 Ch. 661, Ant Internal

Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Power Drift = -0.013 dB
Peak SAR (extrapolated) = 0.754 W/kg
SAR(1 g) = 0.449 W/kg; SAR(10 g) = 0.238 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Front, PCS1900 GPRS Class 12 Ch. 661, Ant Internal

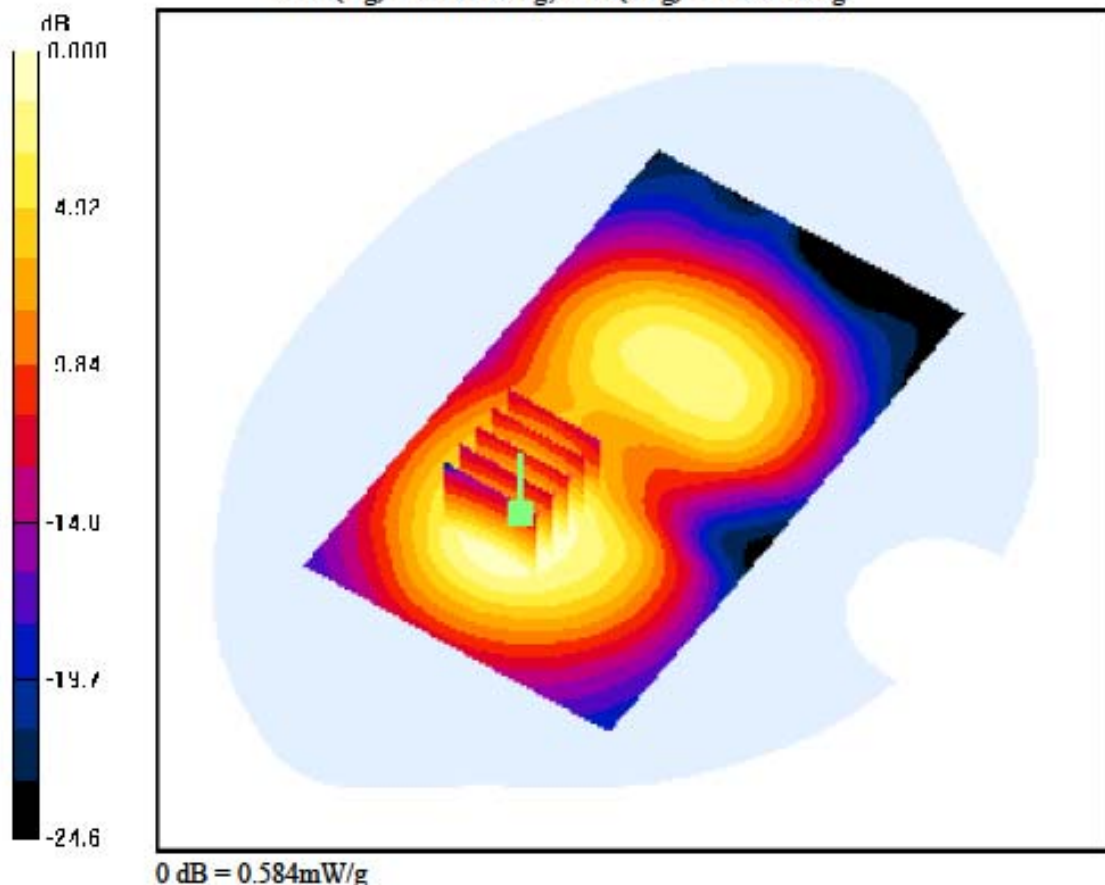
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.002 dB

Peak SAR (extrapolated) = 0.743 W/kg

SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.283 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 Ch. 661, Ant Internal

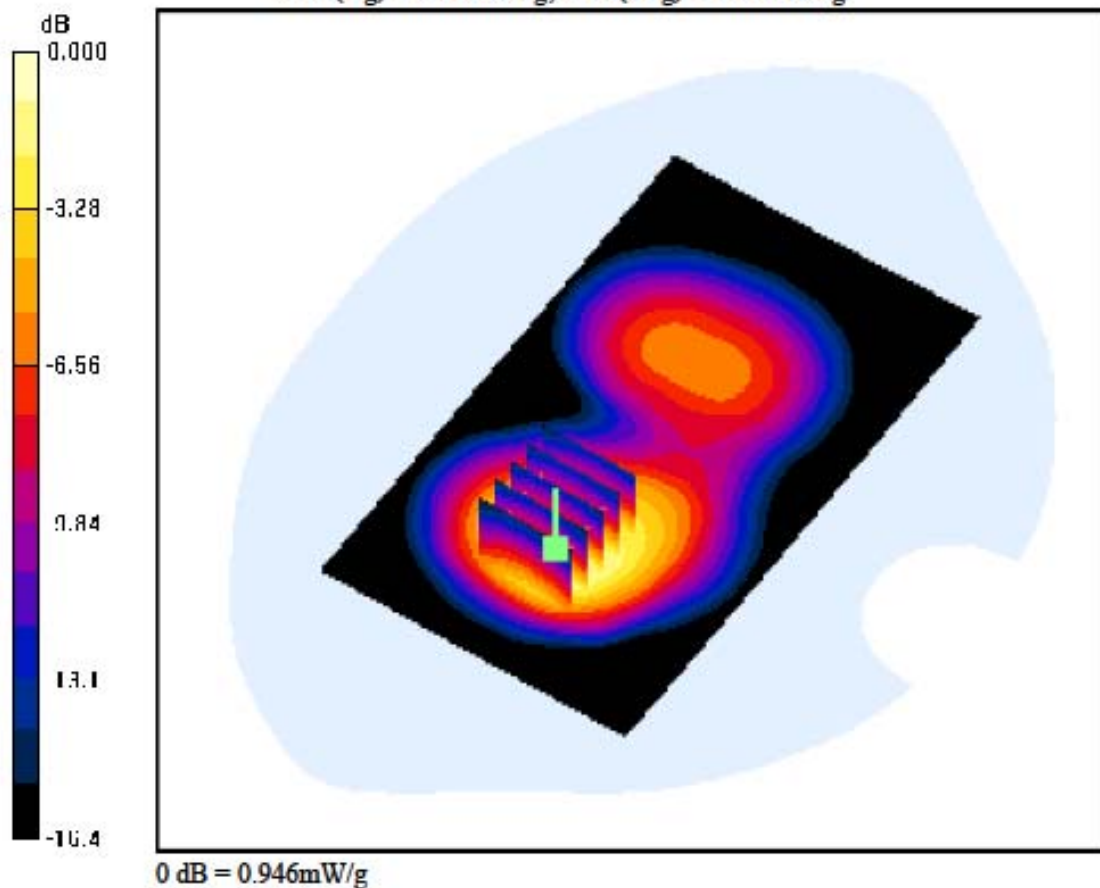
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.071 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.748 W/kg; SAR(10 g) = 0.410 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 GPRS Class 8 Ch. 661, Ant Internal

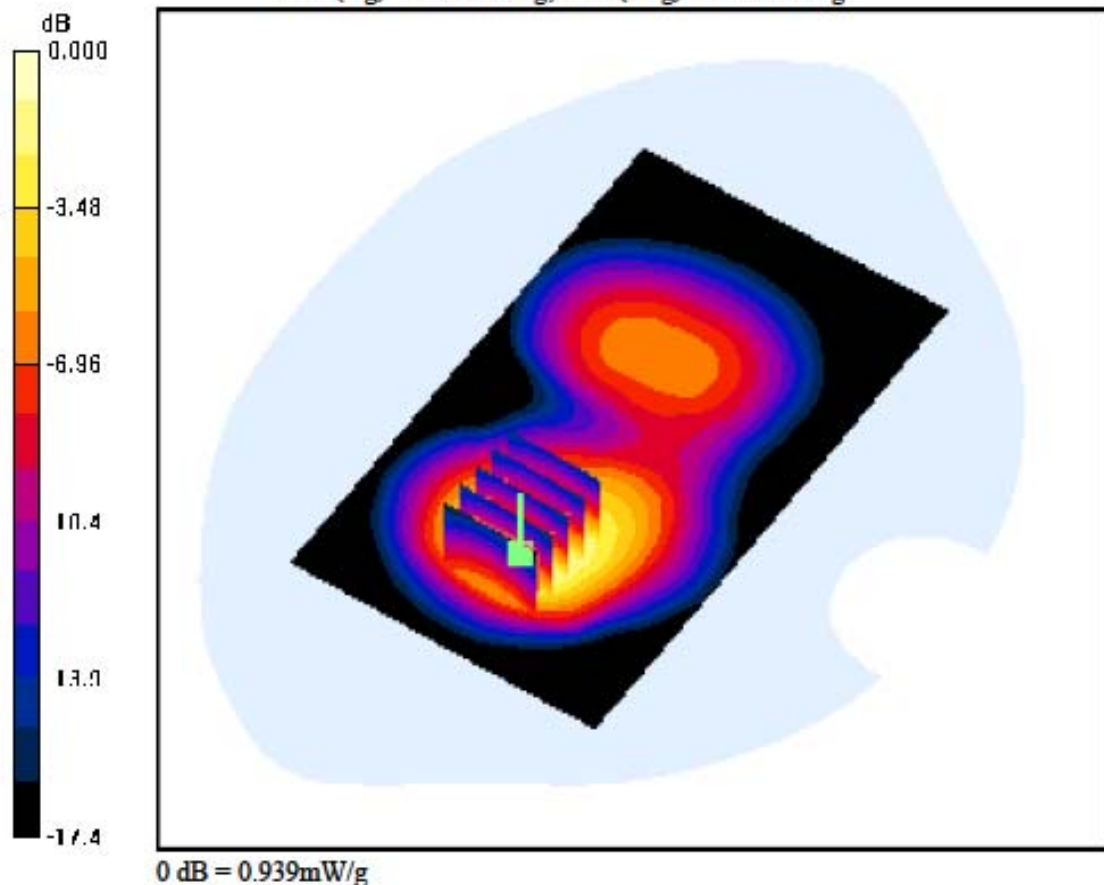
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.062 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.388 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 GPRS Class 10 Ch. 661, Ant Internal

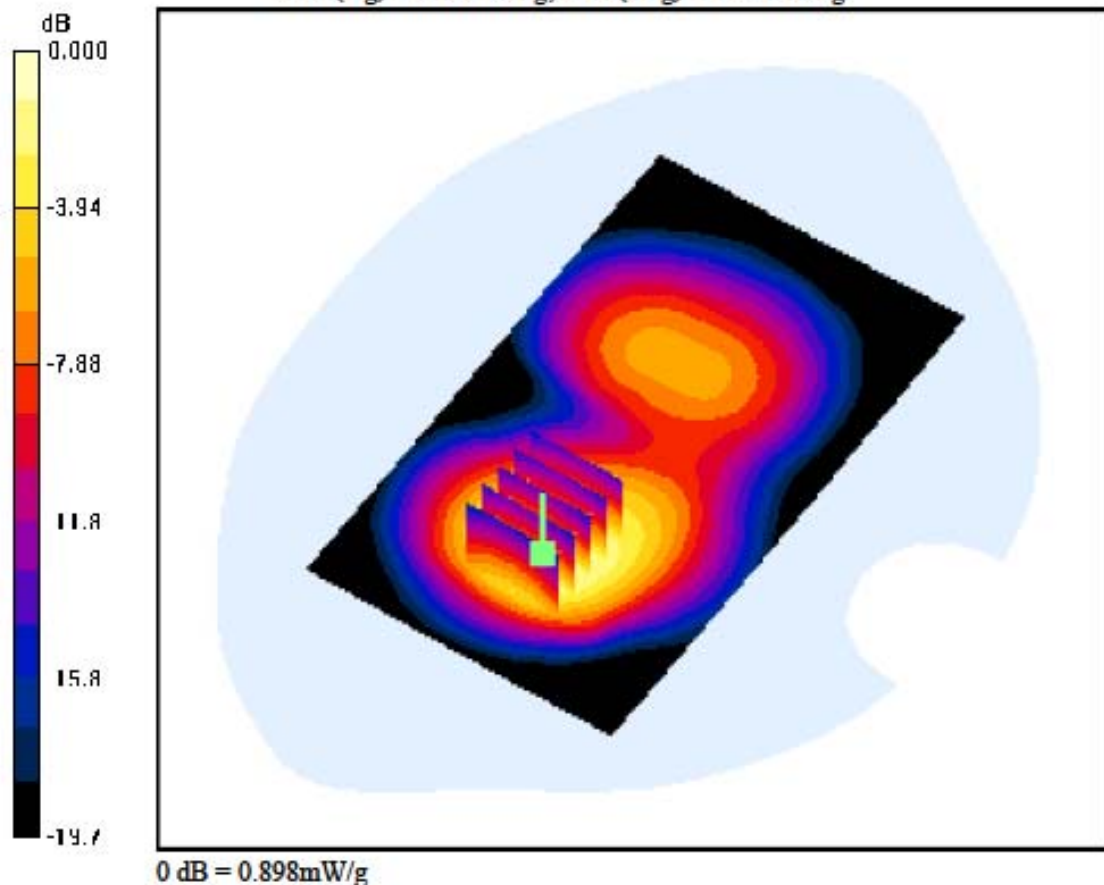
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.022 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.693 W/kg; SAR(10 g) = 0.381 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2.77
Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 GPRS Class 11 Ch. 512, Ant Internal

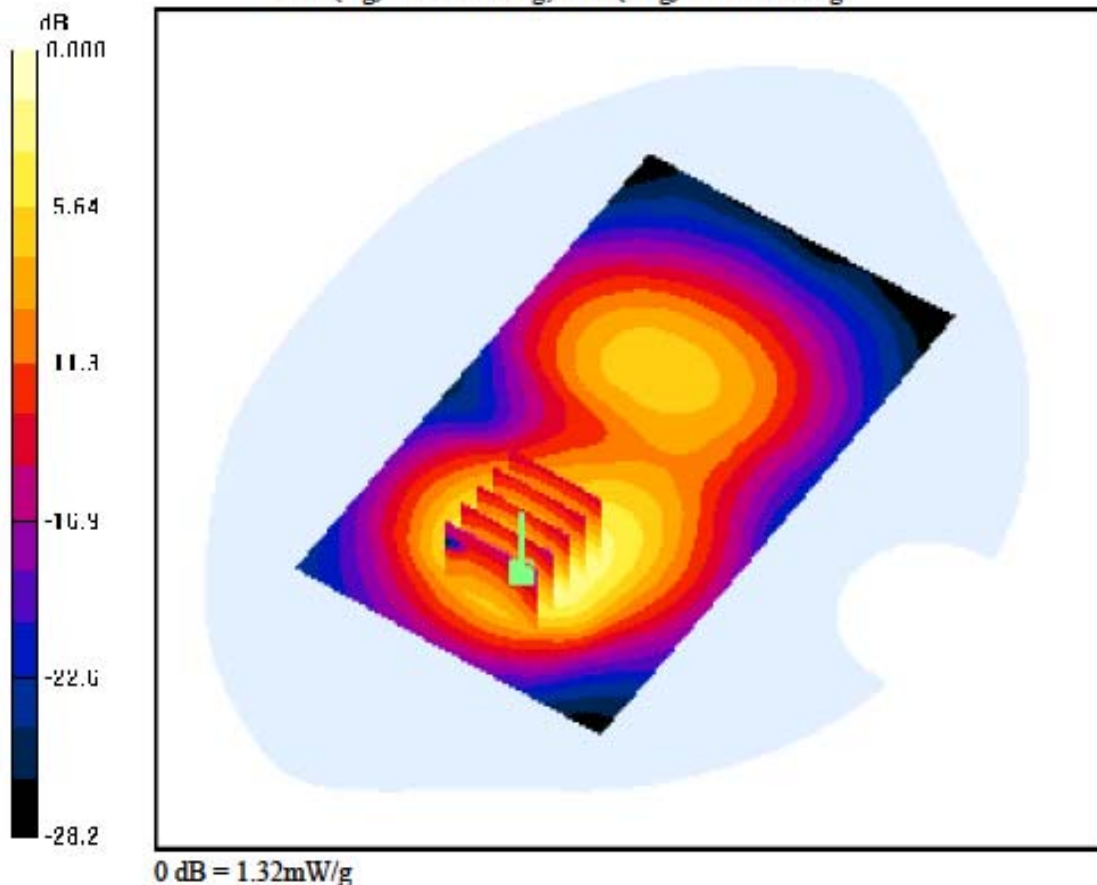
Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.997 W/kg; SAR(10 g) = 0.544 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:2.77
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section**DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519

Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 GPRS Class 11 Ch. 661, Ant Internal

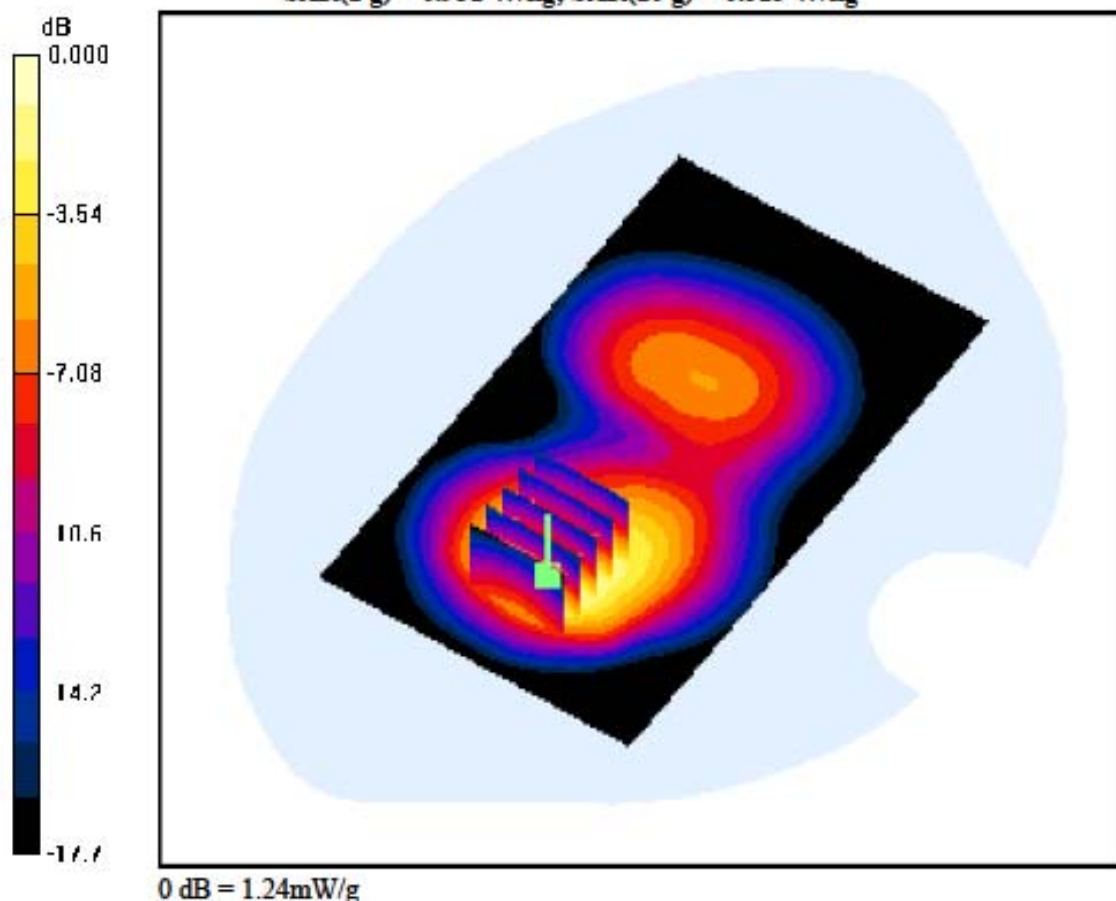
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.038 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.931 W/kg; SAR(10 g) = 0.515 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.77
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 GPRS Class 11 Ch. 810, Ant Internal

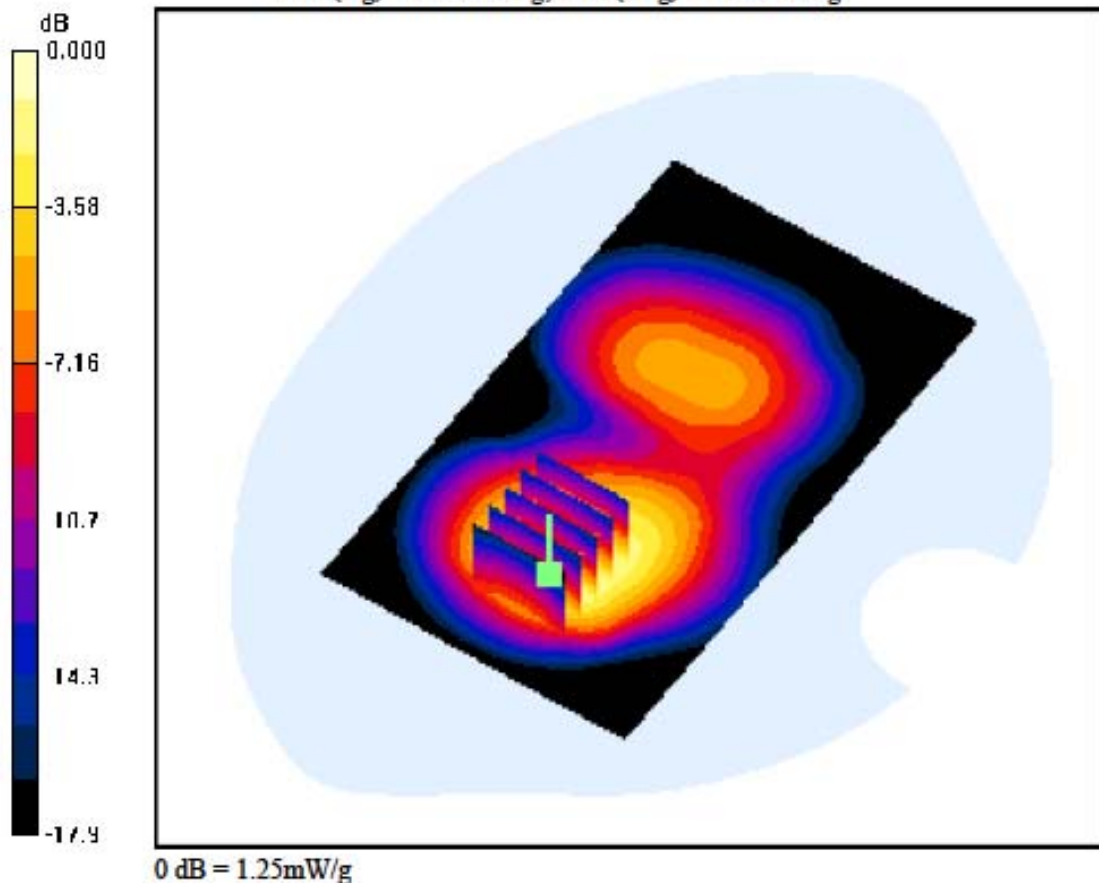
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.029 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.927 W/kg; SAR(10 g) = 0.523 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 GPRS Class 12 Ch. 512, Ant Internal

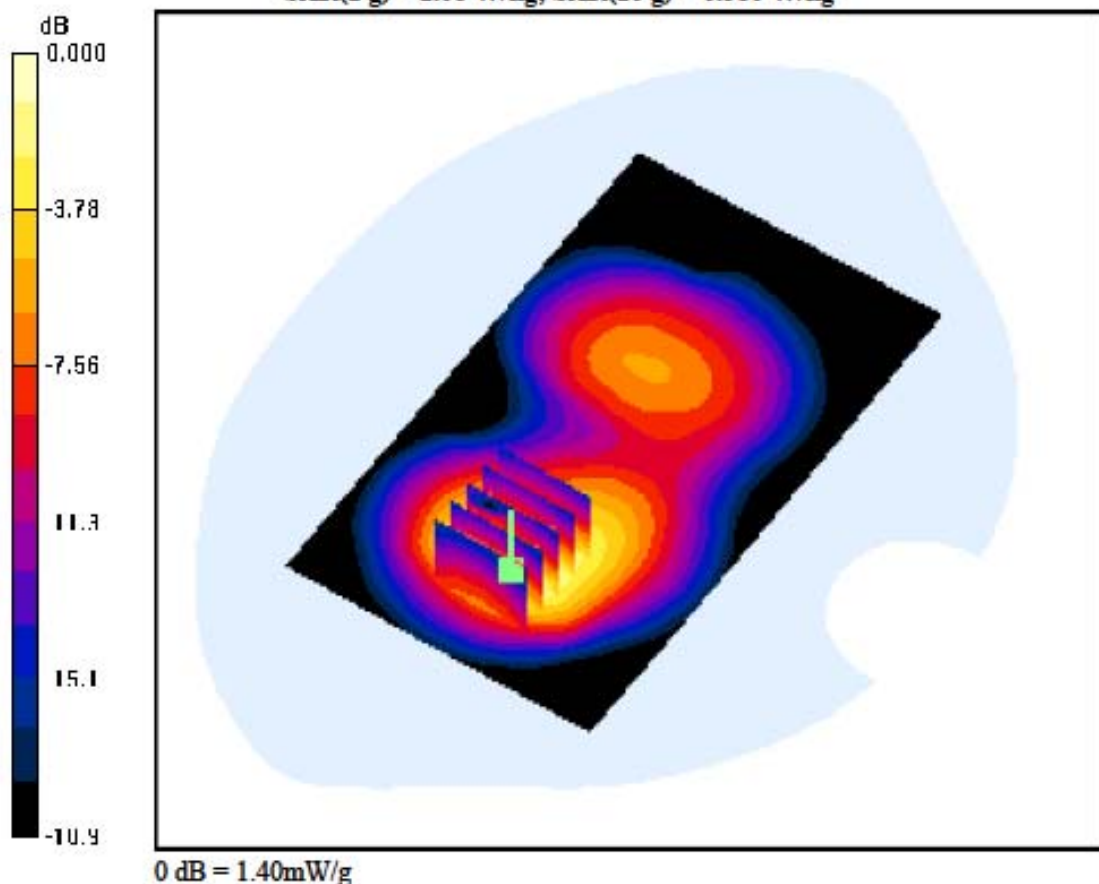
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.011 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.580 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 GPRS Class 12 Ch. 661, Ant Internal

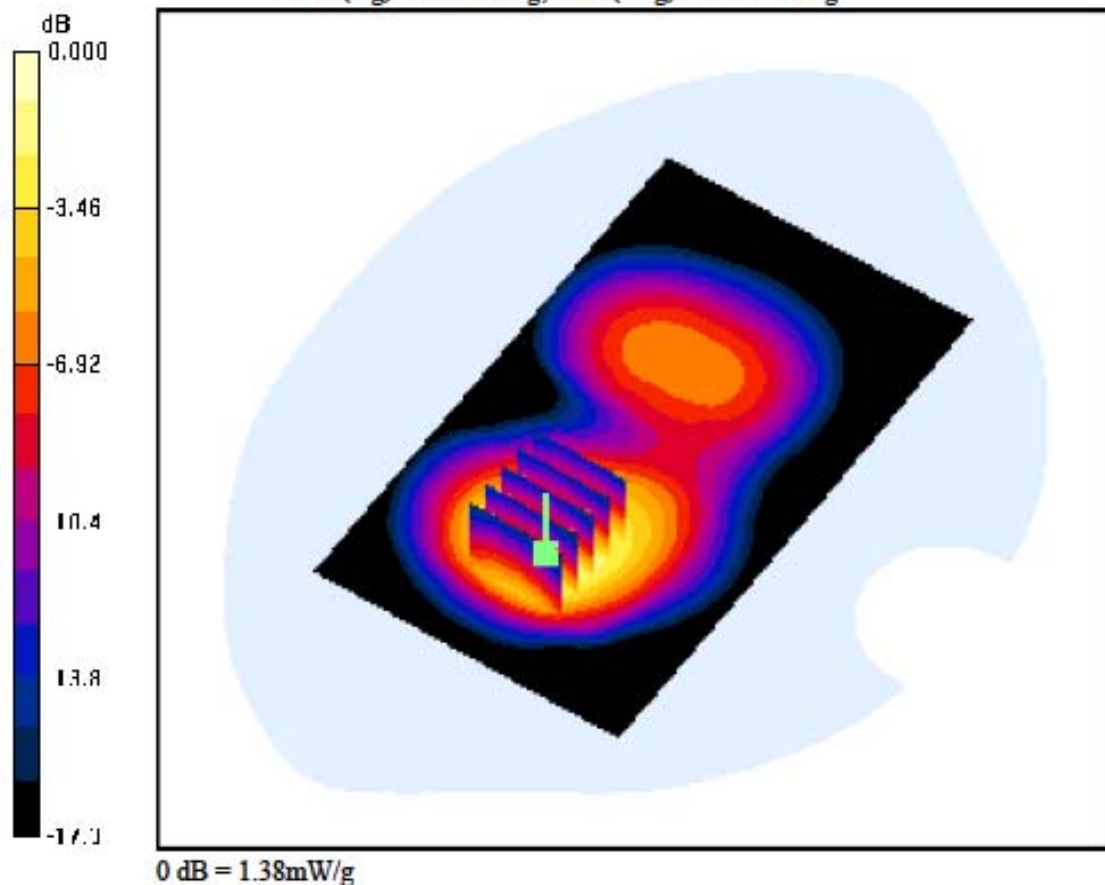
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.089 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.589 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 GPRS Class 12 Ch. 810, Ant Internal

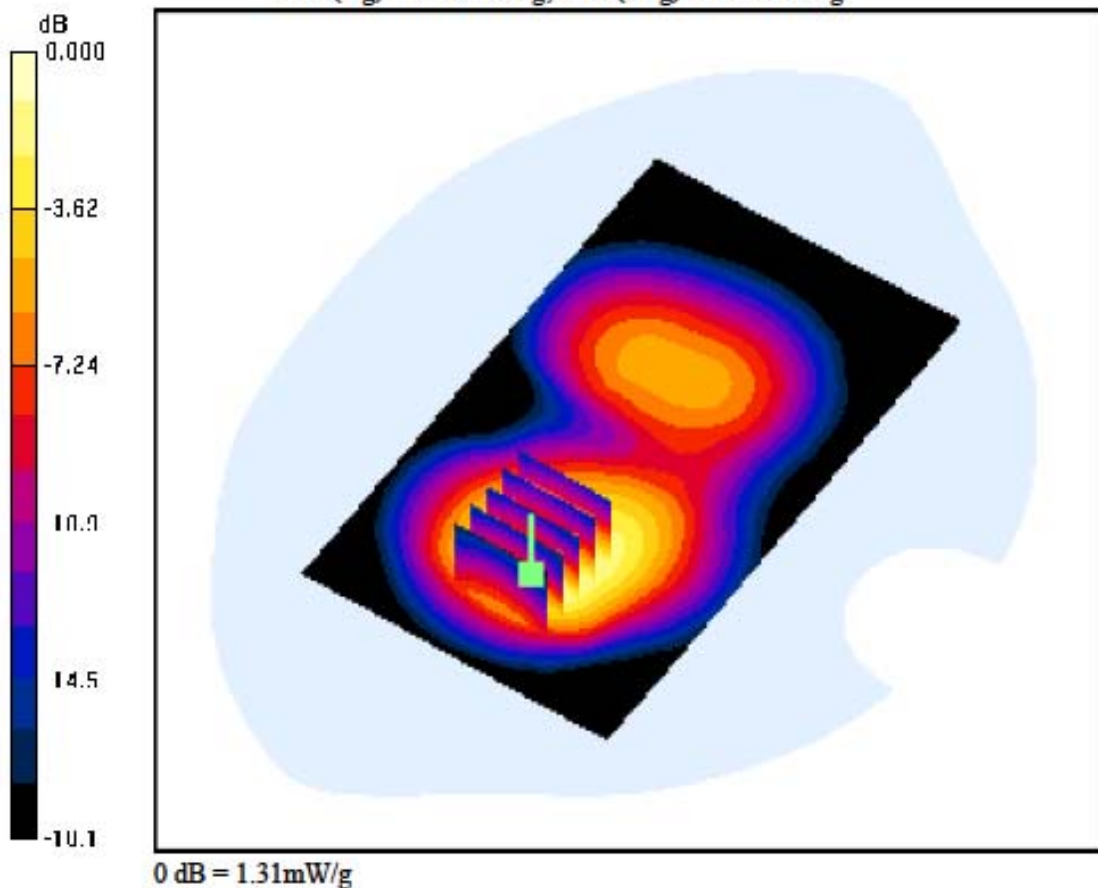
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.012 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.987 W/kg; SAR(10 g) = 0.556 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:2.075
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

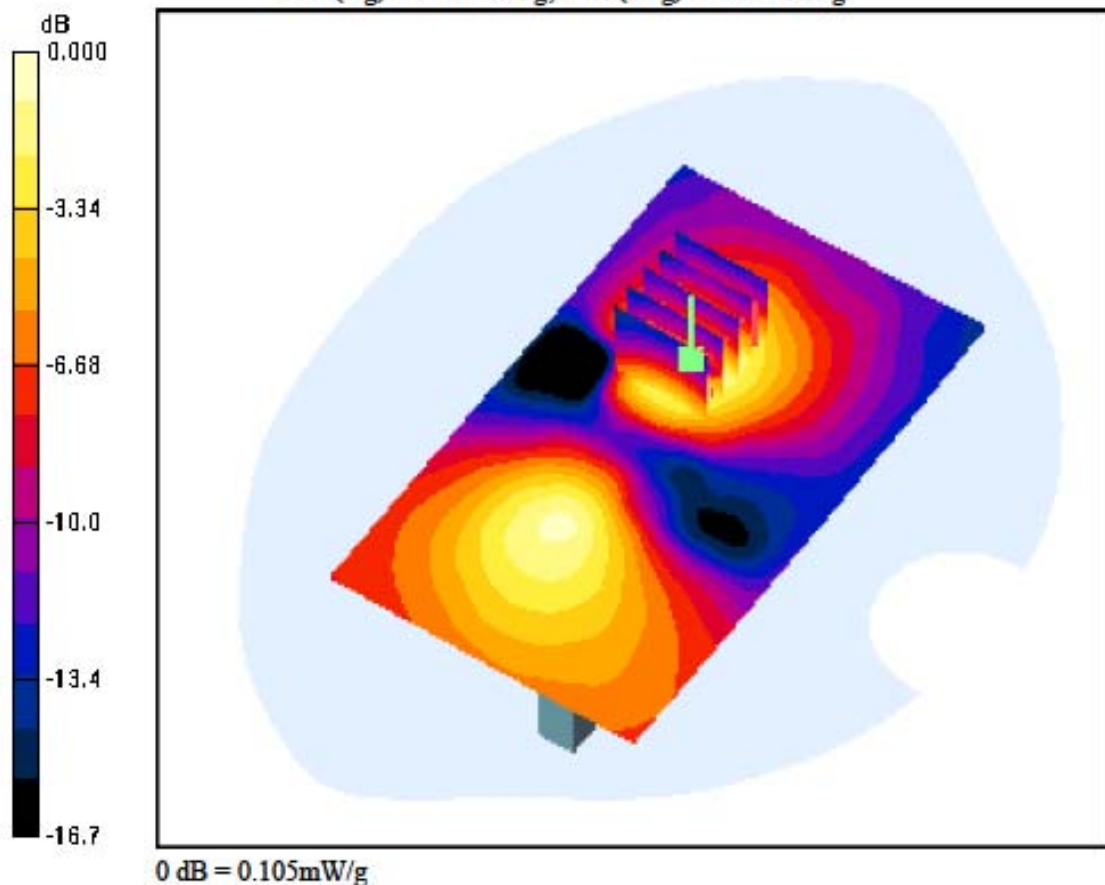
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Right, PCS1900 GPRS Class 12 Ch. 661, Ant Internal

Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Power Drift = -0.205 dB
Peak SAR (extrapolated) = 0.131 W/kg
SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.048 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519

Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Left, PCS1900 GPRS Class 12 Ch. 661, Ant Internal

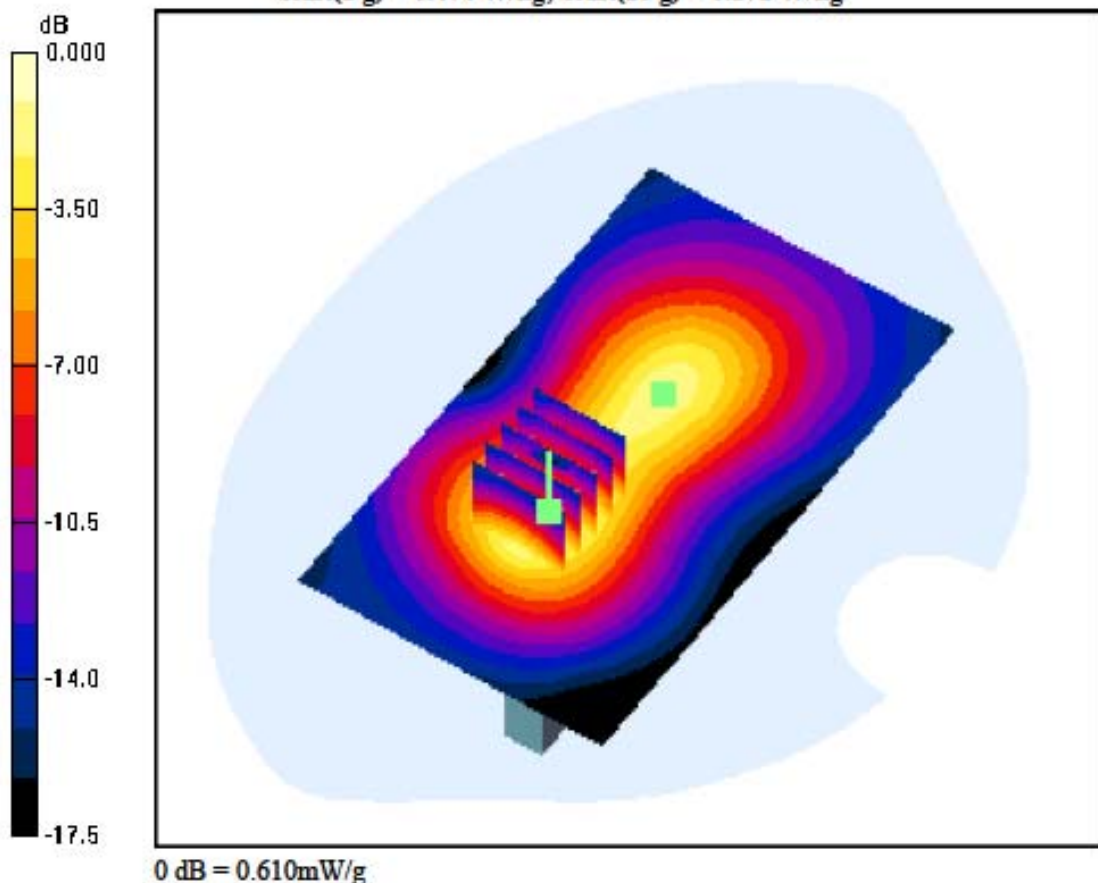
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.093 dB

Peak SAR (extrapolated) = 0.792 W/kg

SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.271 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

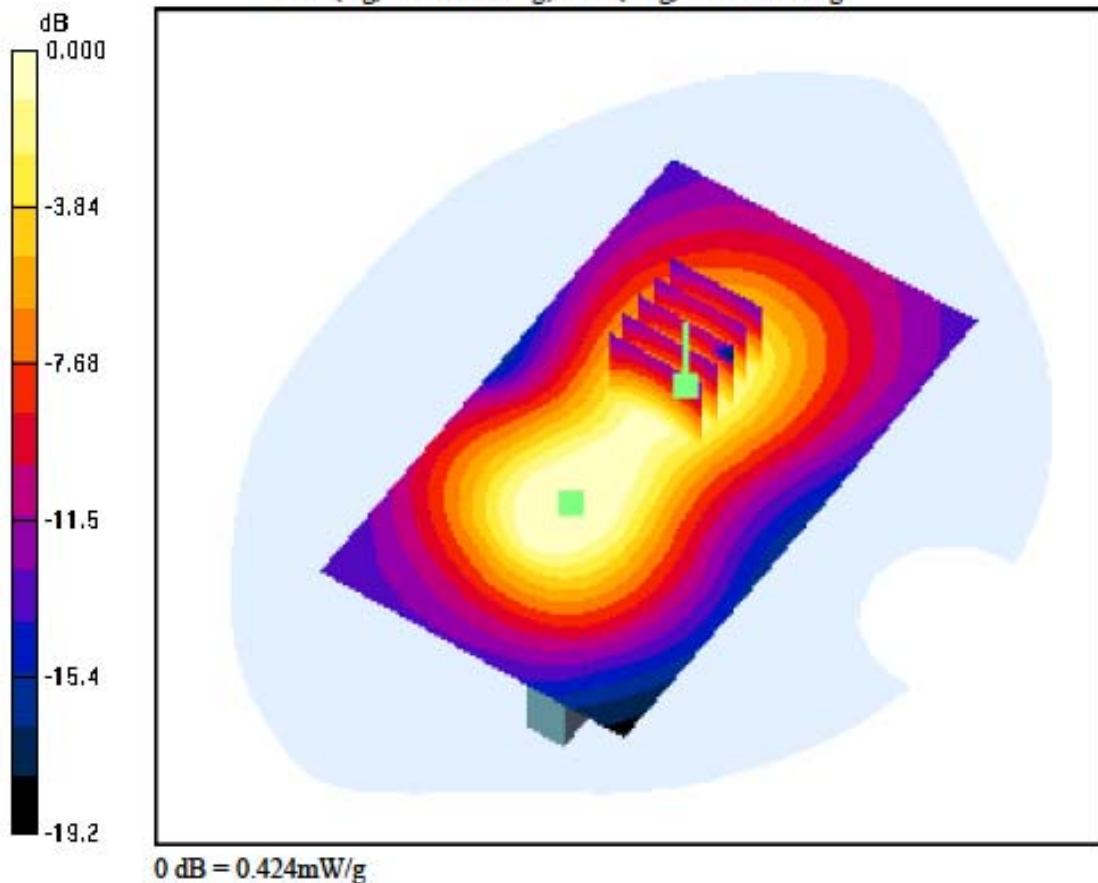
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Left, PCS1900 GPRS Class 12 Ch. 661, Ant Internal

Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Power Drift = 0.093 dB
Peak SAR (extrapolated) = 0.538 W/kg
SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.208 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.959 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Bottom, WCDMA850 Ch. 4182, Ant Internal

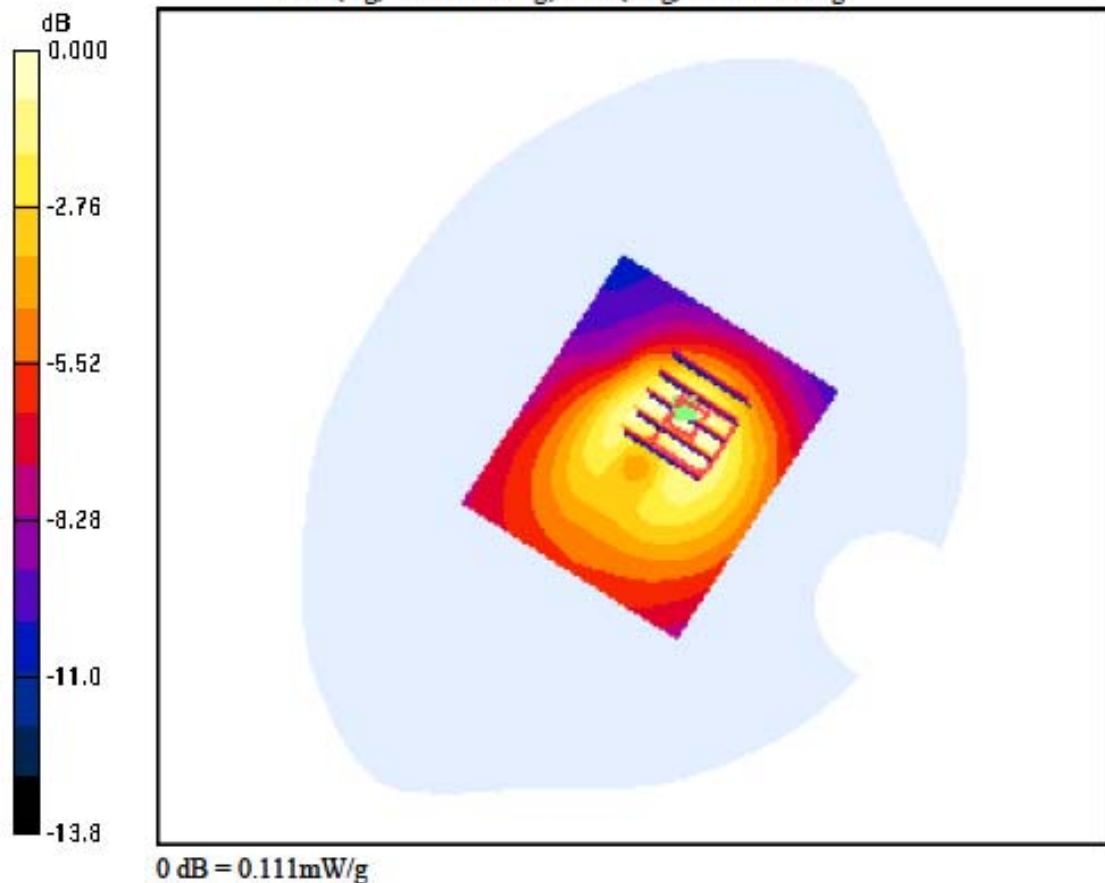
Area Scan (61x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.052 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.959 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Front, WCDMA850 Ch. 4182, Ant Internal

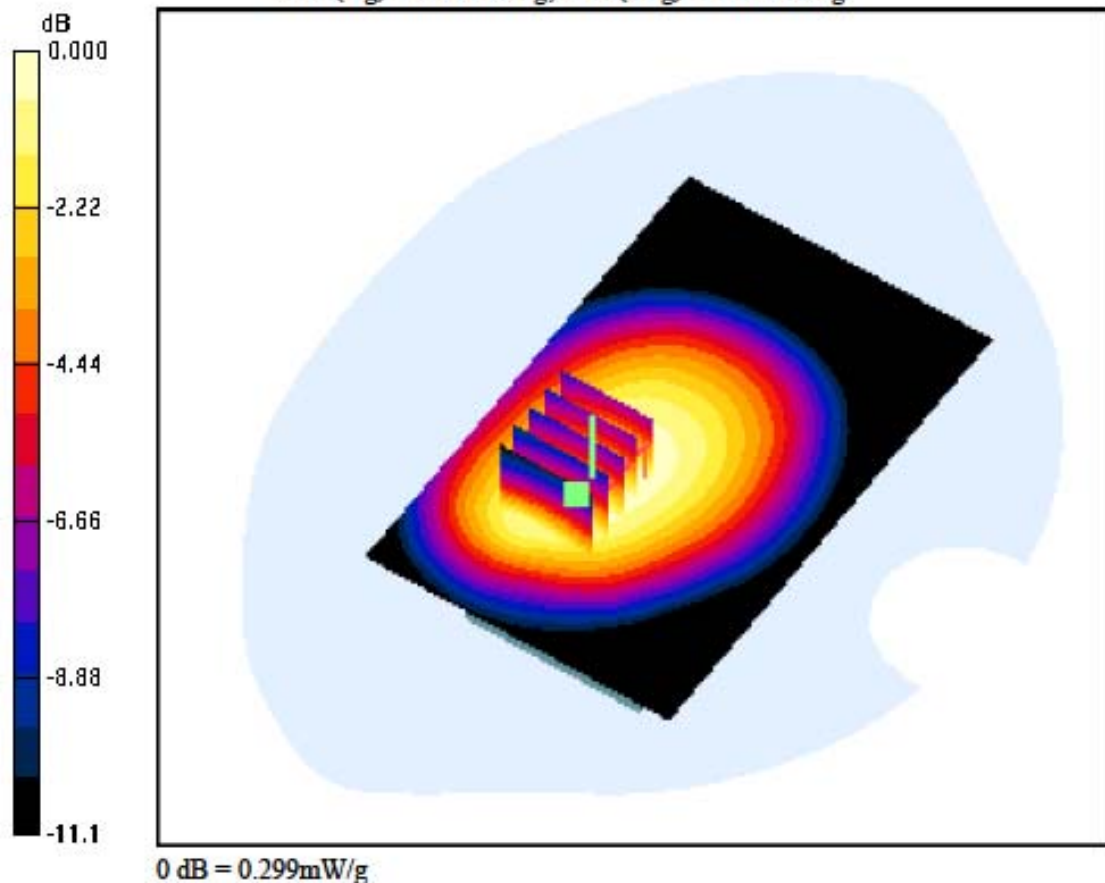
Area Scan (71x111x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.208 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.934 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Rear, WCDMA850 Ch. 4132, Ant Internal

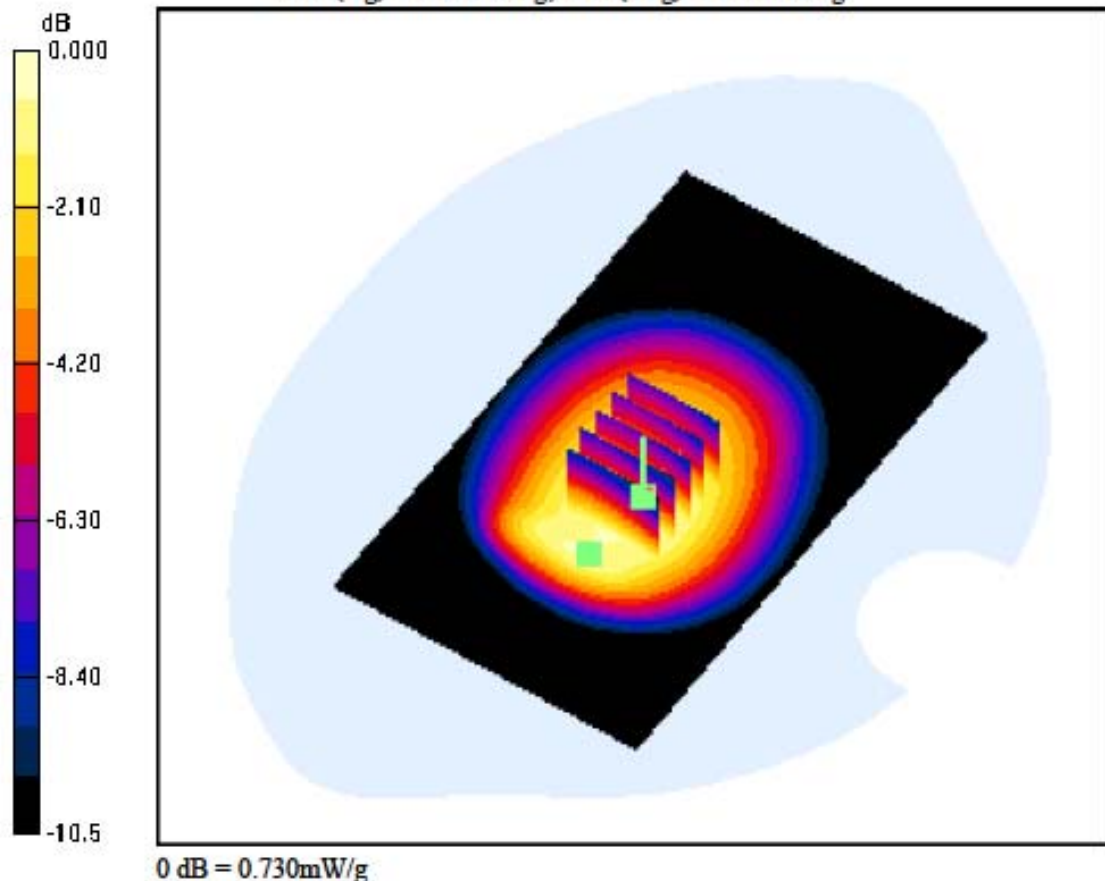
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.851 W/kg

SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.460 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.934 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Rear, WCDMA850 Ch. 4132, Ant Internal

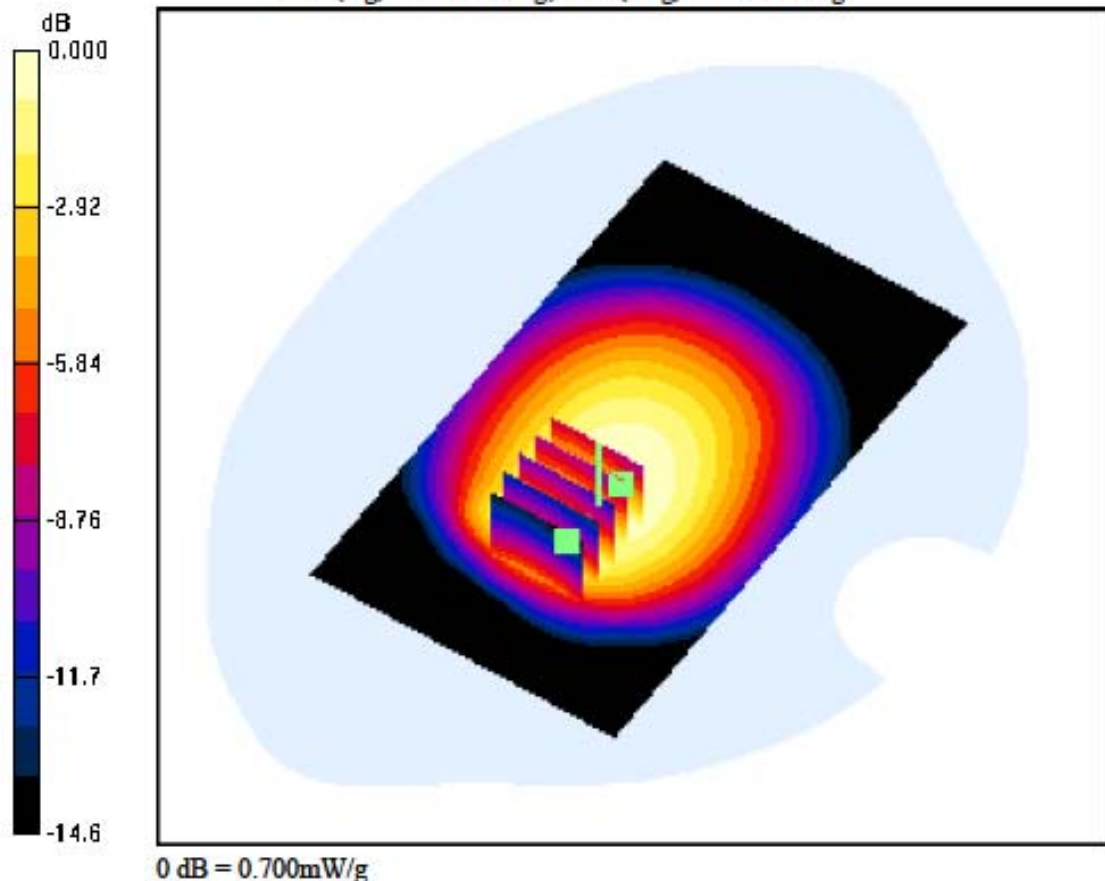
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.549 W/kg; SAR(10 g) = 0.363 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.959 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519

Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Rear, WCDMA850 Ch. 4182, Ant Internal

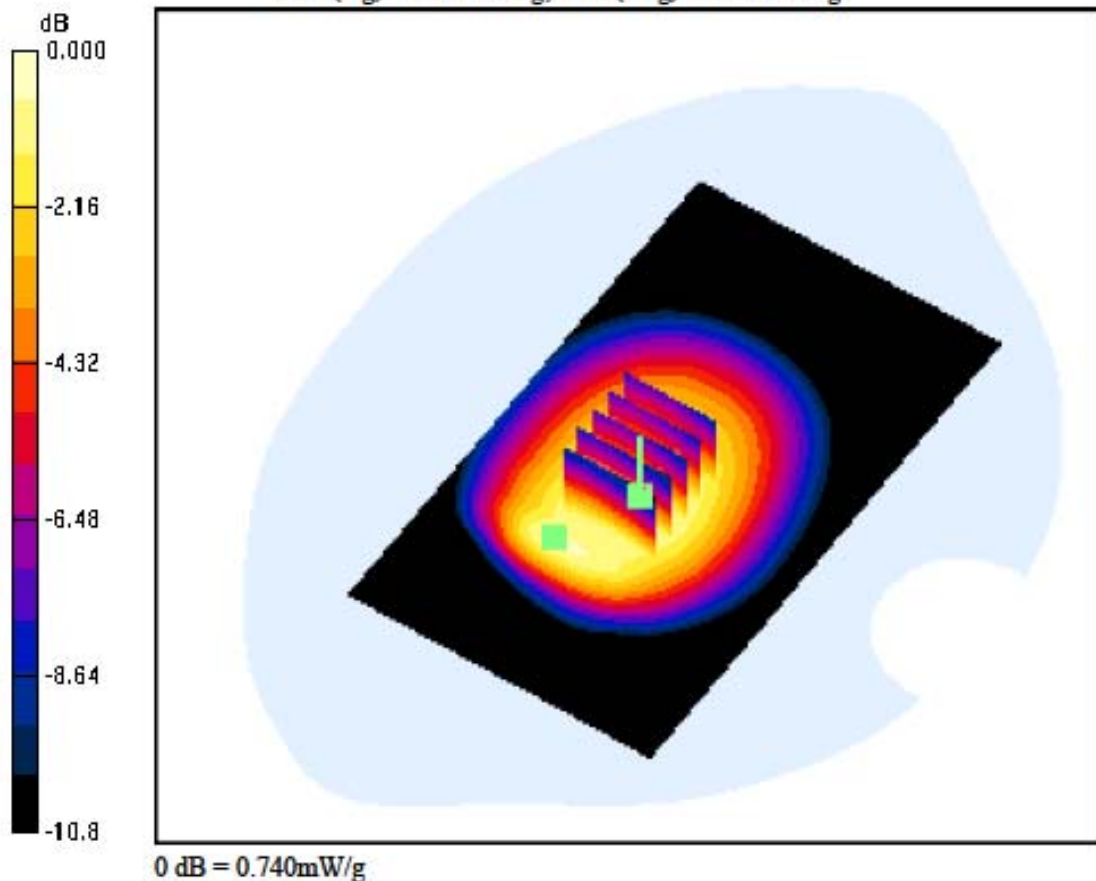
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.857 W/kg

SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.454 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.959 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Rear, WCDMA850 Ch. 4182, Ant Internal

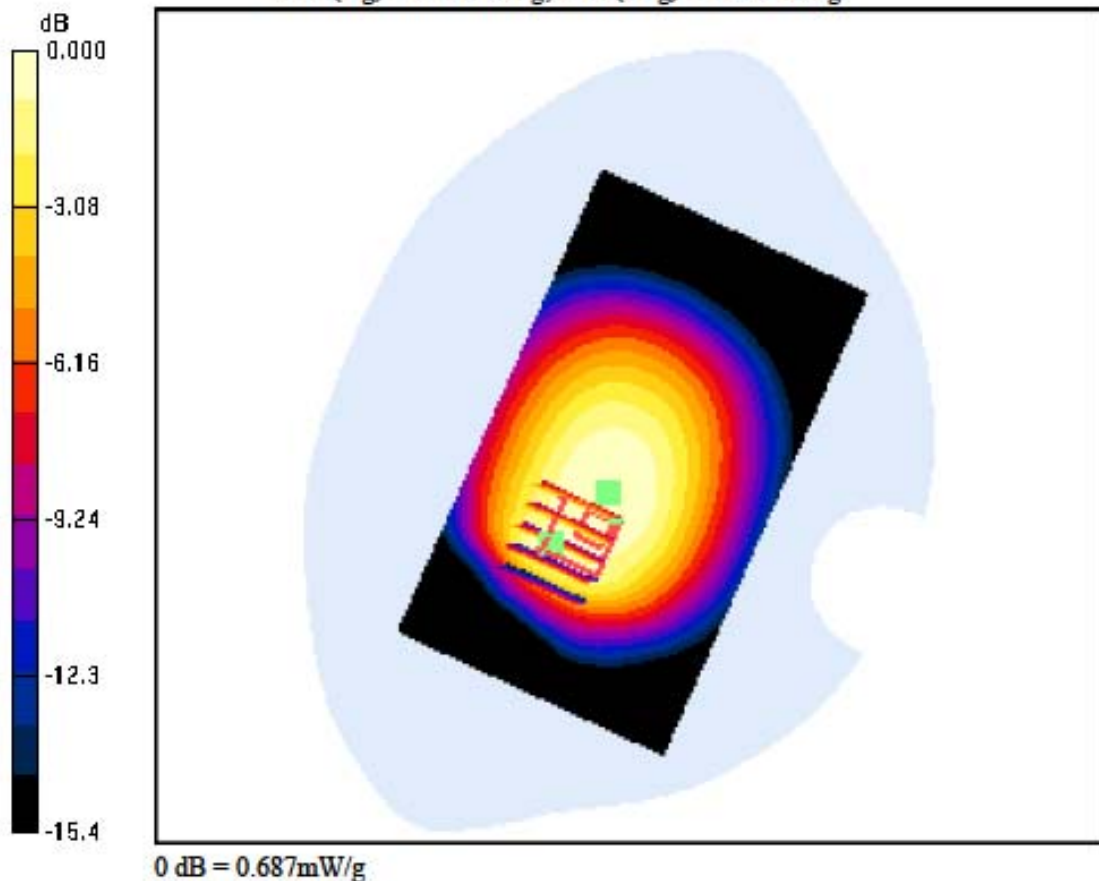
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.816 W/kg

SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.353 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 846.6 \text{ MHz}$; $\sigma = 0.983 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Rear, WCDMA850 Ch. 4233, Ant Internal

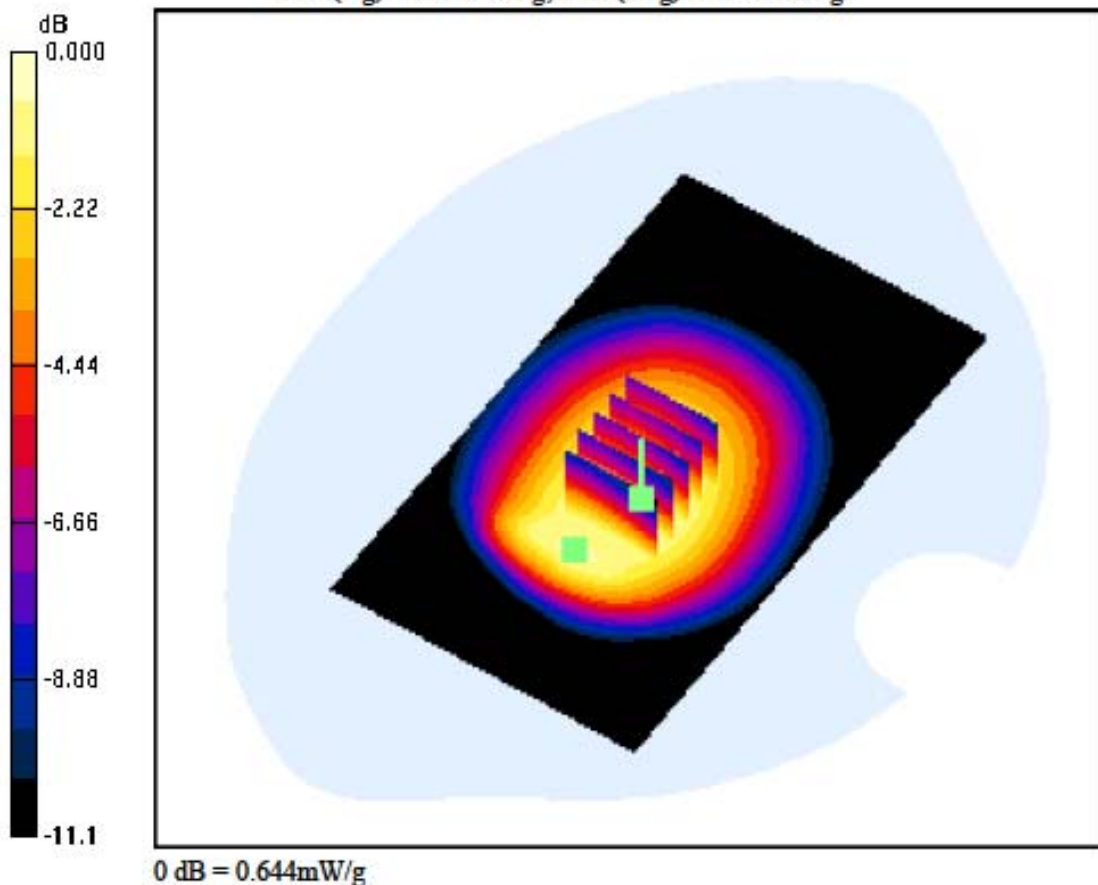
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.753 W/kg

SAR(1 g) = 0.555 W/kg; SAR(10 g) = 0.398 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 846.6 \text{ MHz}$; $\sigma = 0.983 \text{ mho/m}$; $\epsilon_r = 55.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Rear, WCDMA850 Ch. 4233, Ant Internal

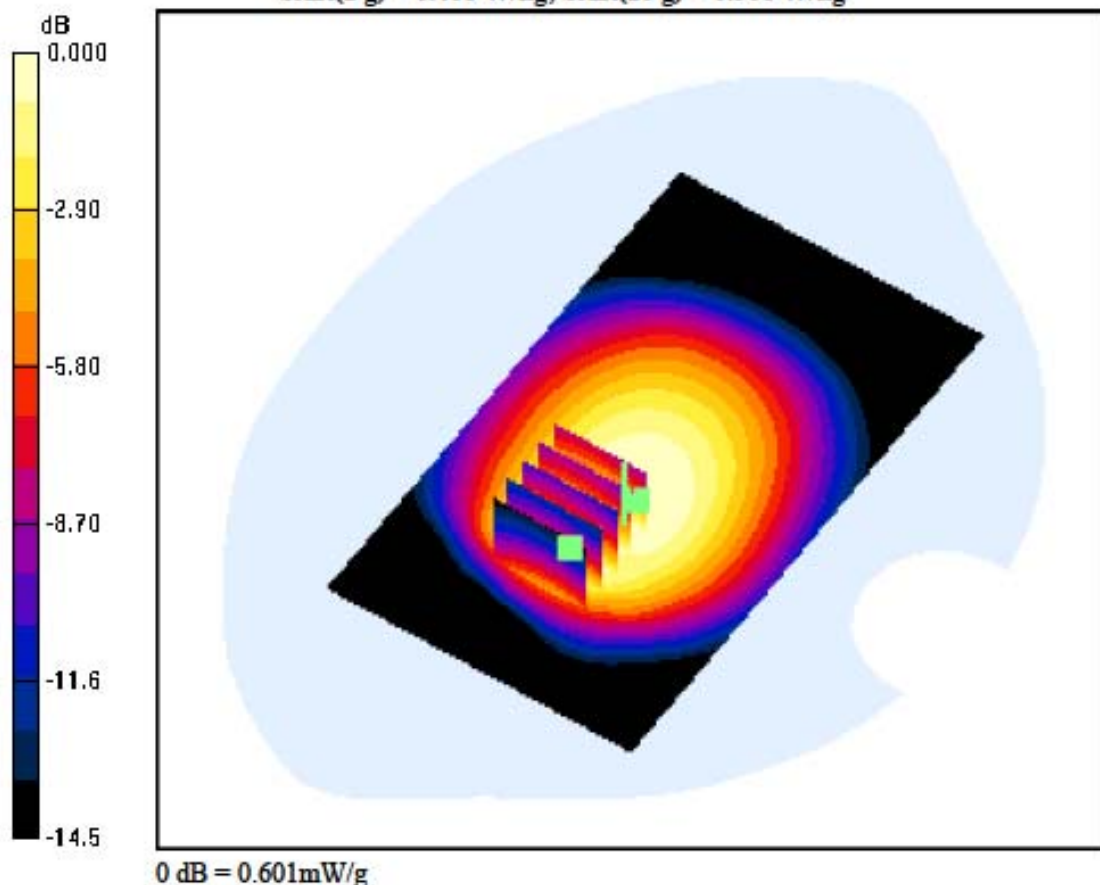
Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.713 W/kg

SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.306 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.959 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Right, WCDMA850 Ch. 4182, Ant Internal

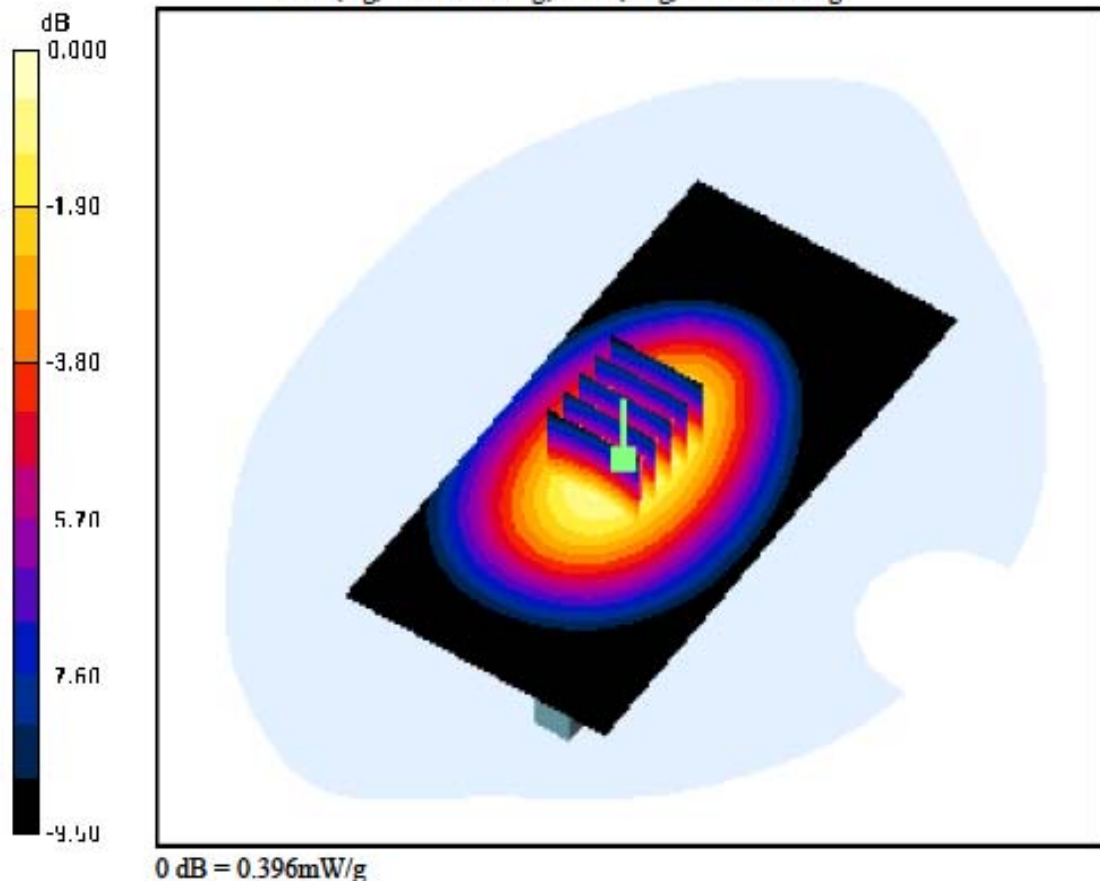
Area Scan (61x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.475 W/kg

SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.229 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.959 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

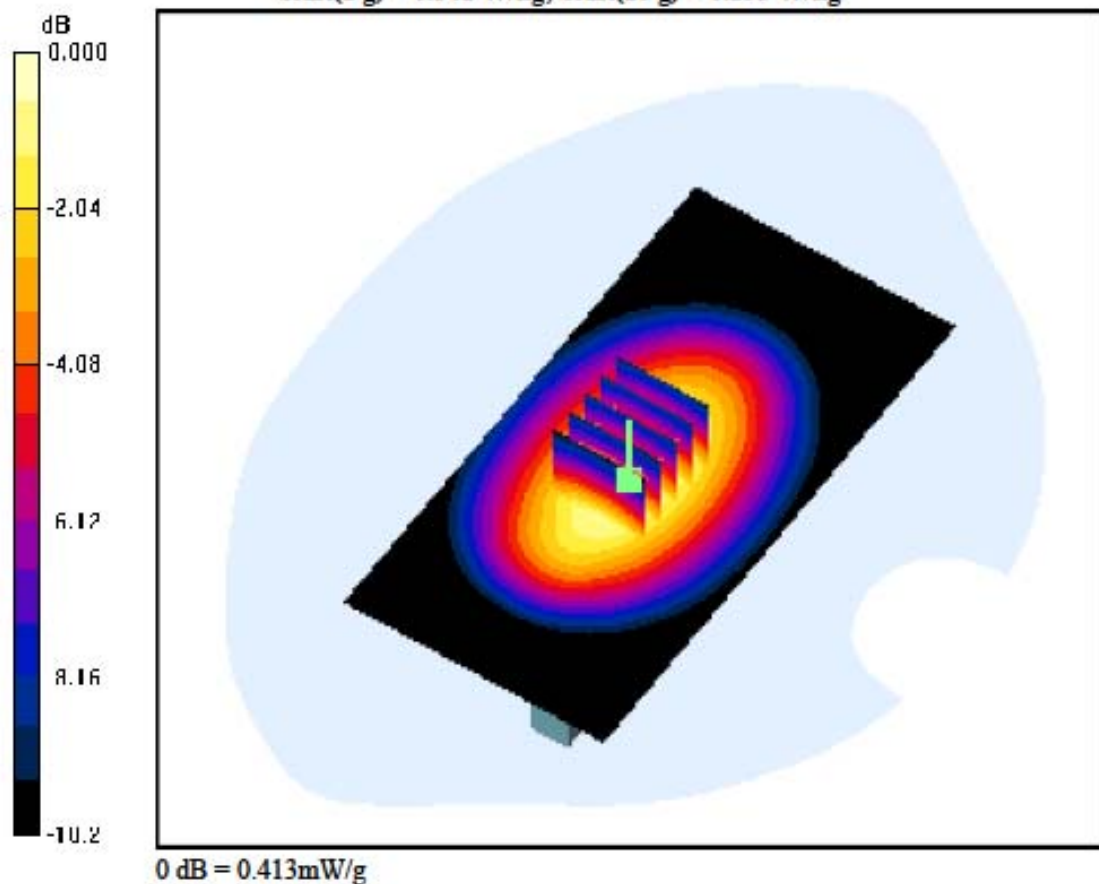
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Left, WCDMA850 Ch. 4182, Ant Internal

Area Scan (61x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Power Drift = -0.037 dB
Peak SAR (extrapolated) = 0.502 W/kg
SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.233 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.03, 7.03, 7.03); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-07-18 Ambient Temp: 22.4; Tissue Temp: 22.5

1cm space from Body, Top, W-LAN(802.11b) Ch. 6, Ant Internal

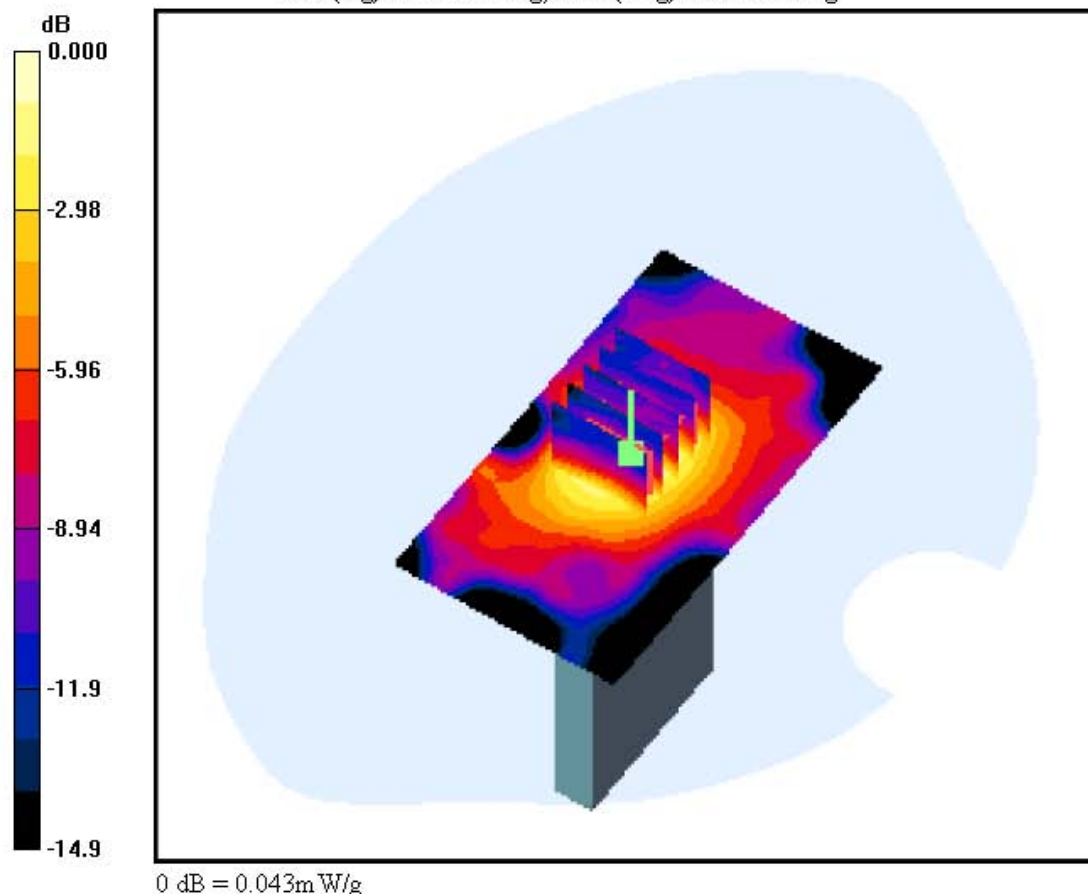
Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.328 dB

Peak SAR (extrapolated) = 0.063 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.018 W/kg



DIGITAL EMC CO., LTD

DUT: LG-E510f; Type: Bar

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.03, 7.03, 7.03); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-07-18 Ambient Temp: 22.4; Tissue Temp: 22.5

1cm space from Body, Front, W-LAN(802.11b) Ch. 6, Ant Internal

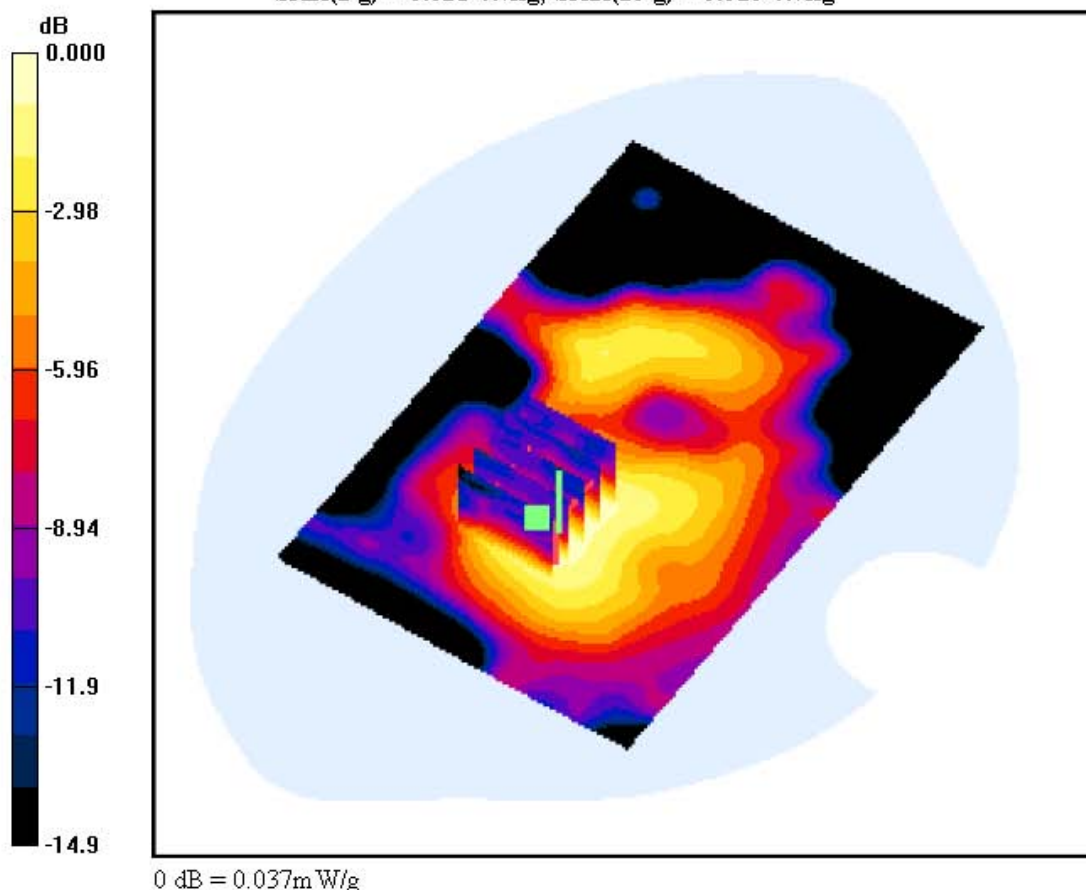
Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.324 dB

Peak SAR (extrapolated) = 0.047 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.016 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: W-LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.92 \text{ mho/m}$; $\epsilon_r = 52$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.03, 7.03, 7.03); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-07-18 Ambient Temp: 22.4; Tissue Temp: 22.5

1cm space from Body, Rear, W-LAN(802.11b) Ch. 1, Ant Internal

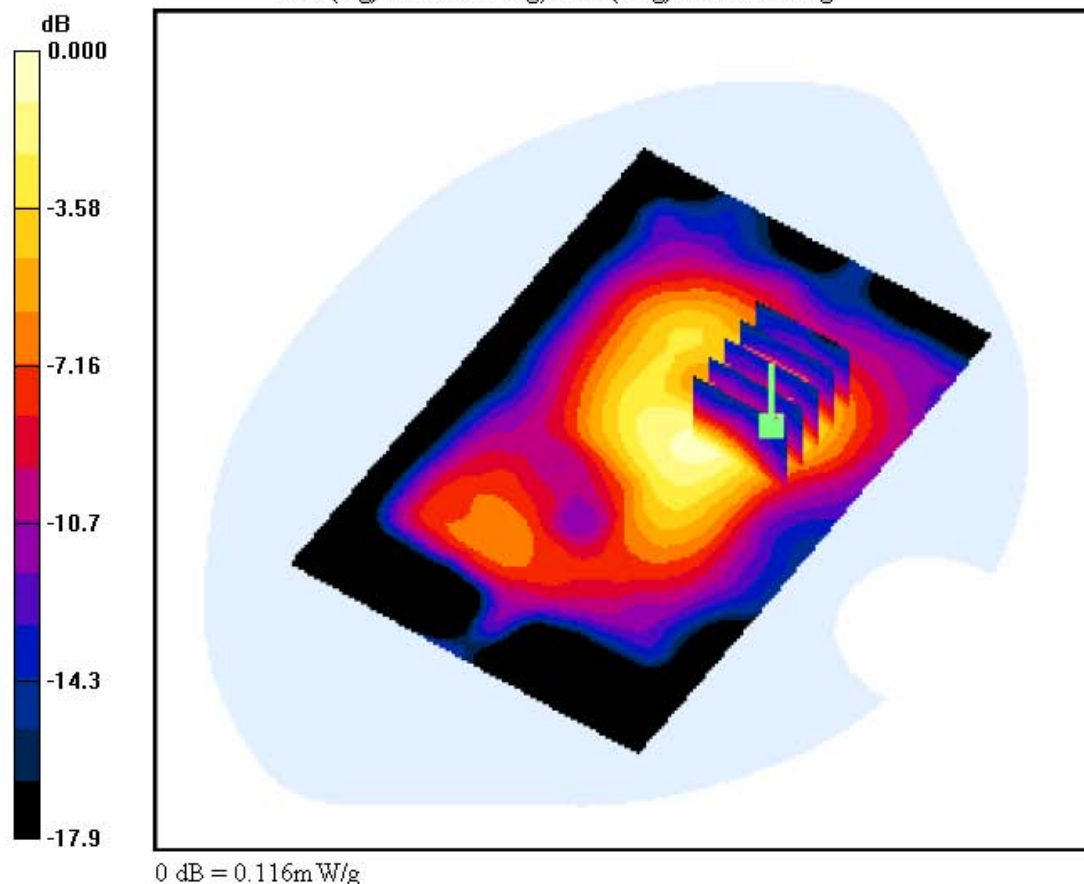
Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.043 W/kg



DIGITAL EMC CO., LTD

DUT: LG-E510f; Type: Bar

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.03, 7.03, 7.03); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-07-18 Ambient Temp: 22.4; Tissue Temp: 22.5

1cm space from Body, Rear, W-LAN(802.11b) Ch. 6, Ant Internal

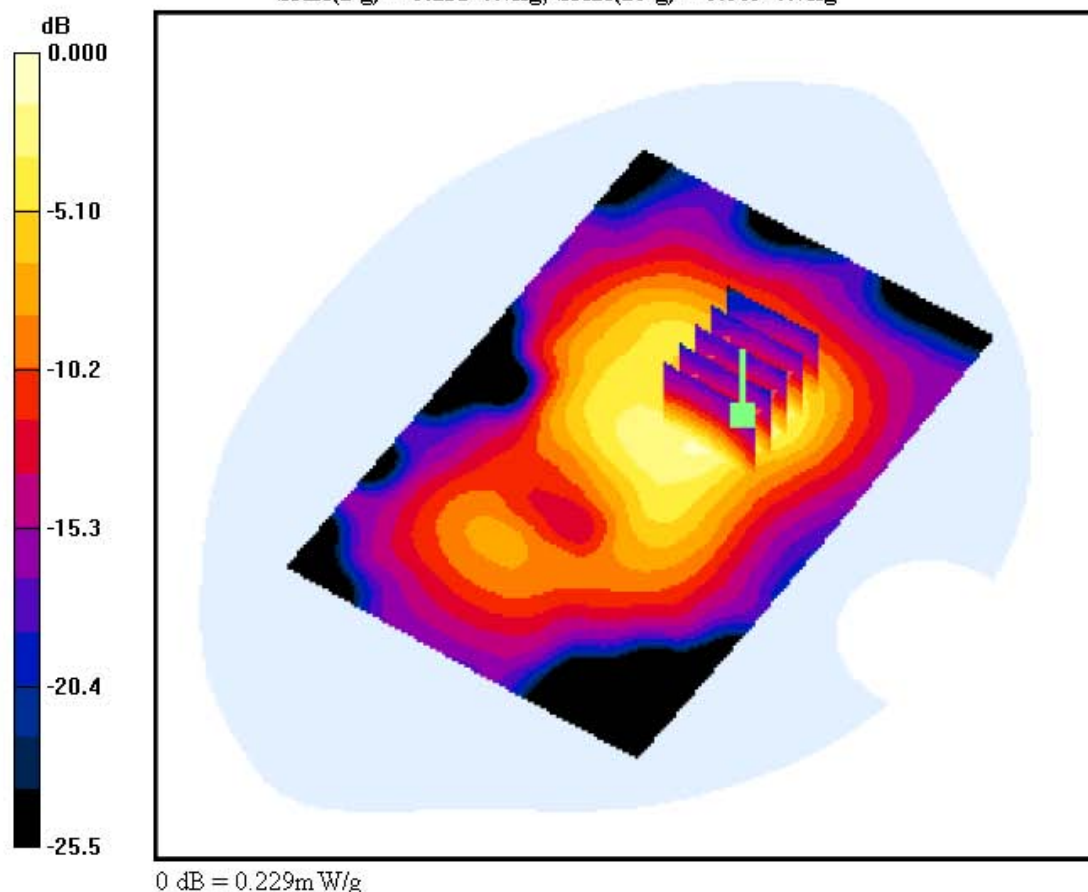
Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.069 W/kg



DIGITAL EMC CO., LTD

DUT: LG-E510f; Type: Bar

Communication System: W-LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.01 \text{ mho/m}$; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.03, 7.03, 7.03); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-07-18 Ambient Temp: 22.4; Tissue Temp: 22.5

1cm space from Body, Rear, W-LAN(802.11b) Ch. 11, Ant Internal

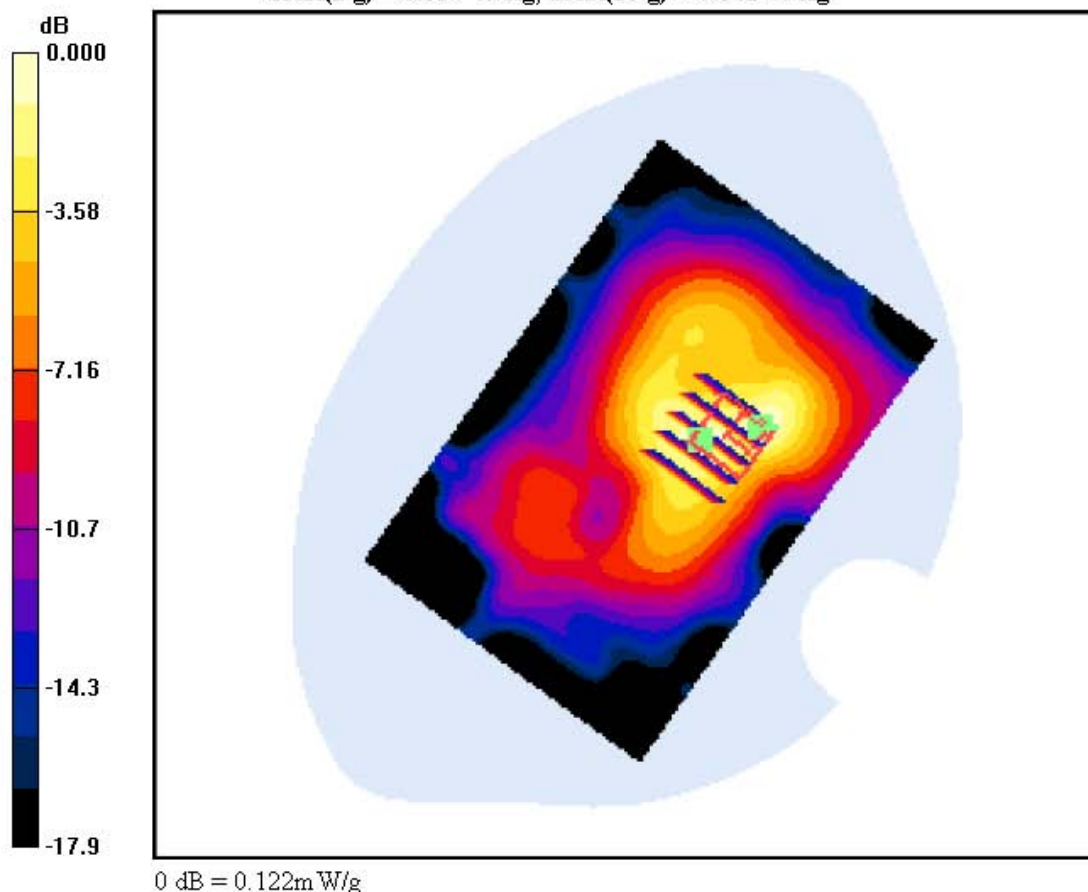
Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.042 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.03, 7.03, 7.03); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-07-18 Ambient Temp: 22.4; Tissue Temp: 22.5

1cm space from Body, Left, W-LAN(802.11b) Ch. 6, Ant Internal

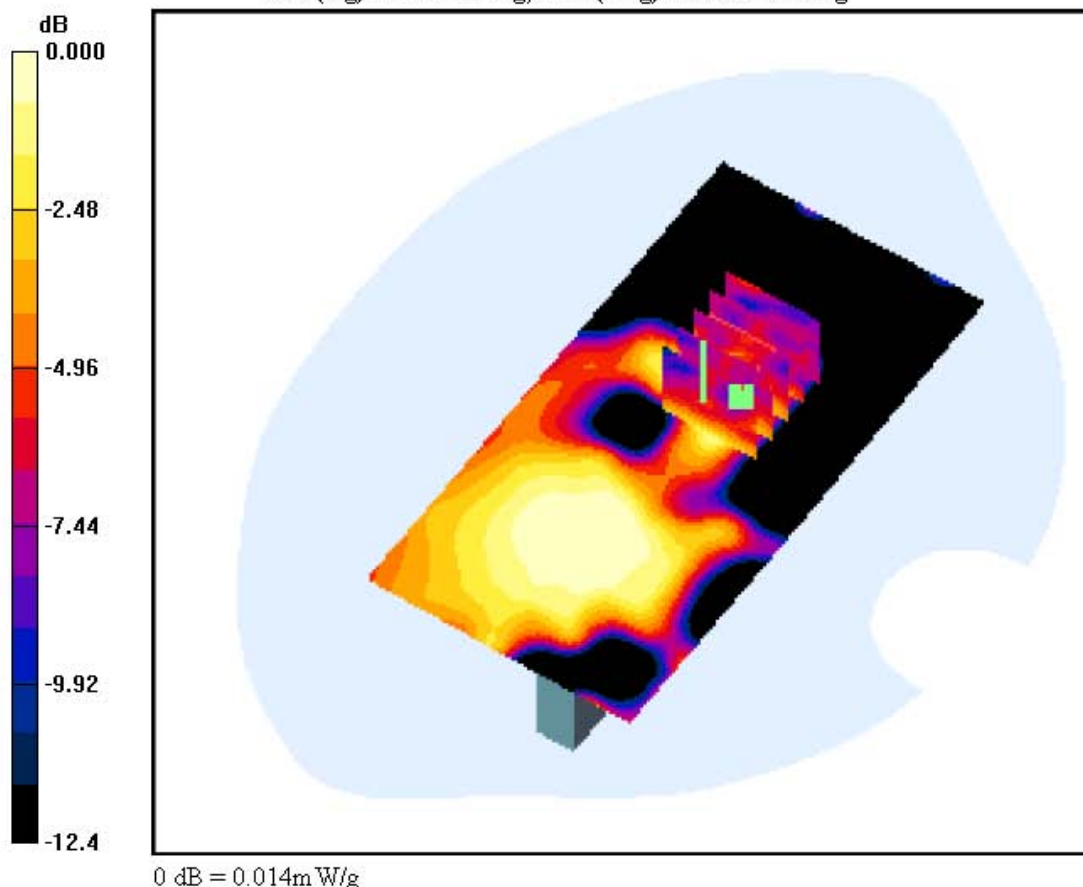
Area Scan (61x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.260 dB

Peak SAR (extrapolated) = 0.022 W/kg

SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.00634 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $f = 848.833$ MHz; $\sigma = 0.937$ mho/m; $\epsilon_r = 42$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

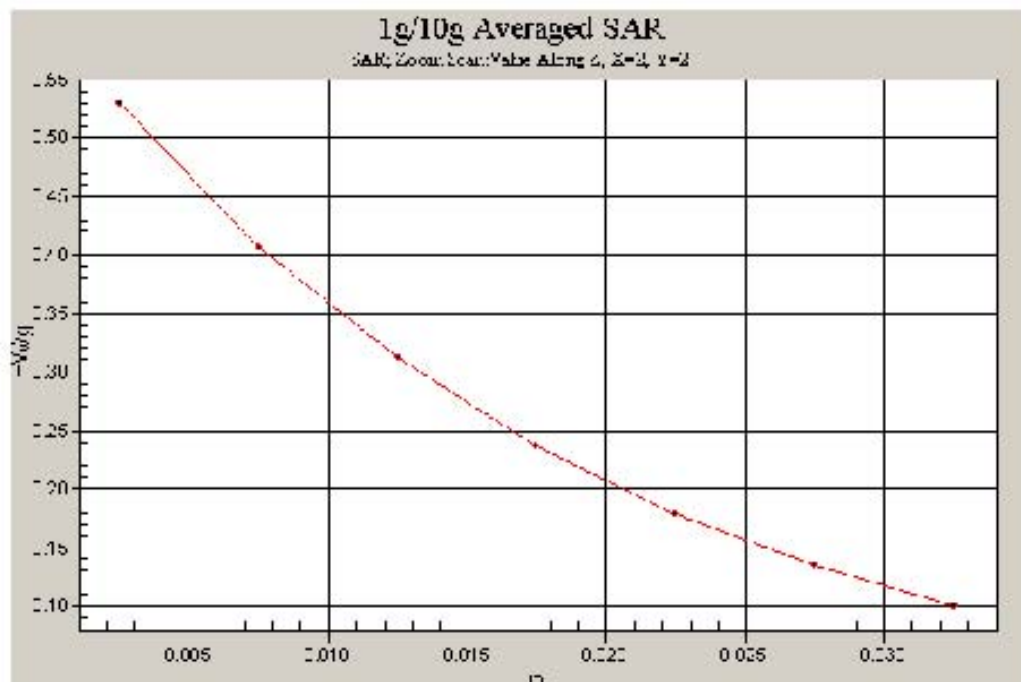
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.96, 8.96, 8.96); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
 Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
 Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

Left Touch, GSM850 Ch. 251, Ant Internal, Standard Battery

Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Power Drift = -0.030 dB
 Peak SAR (extrapolated) = 0.614 W/kg
 SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.344 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:2.075
 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.937 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

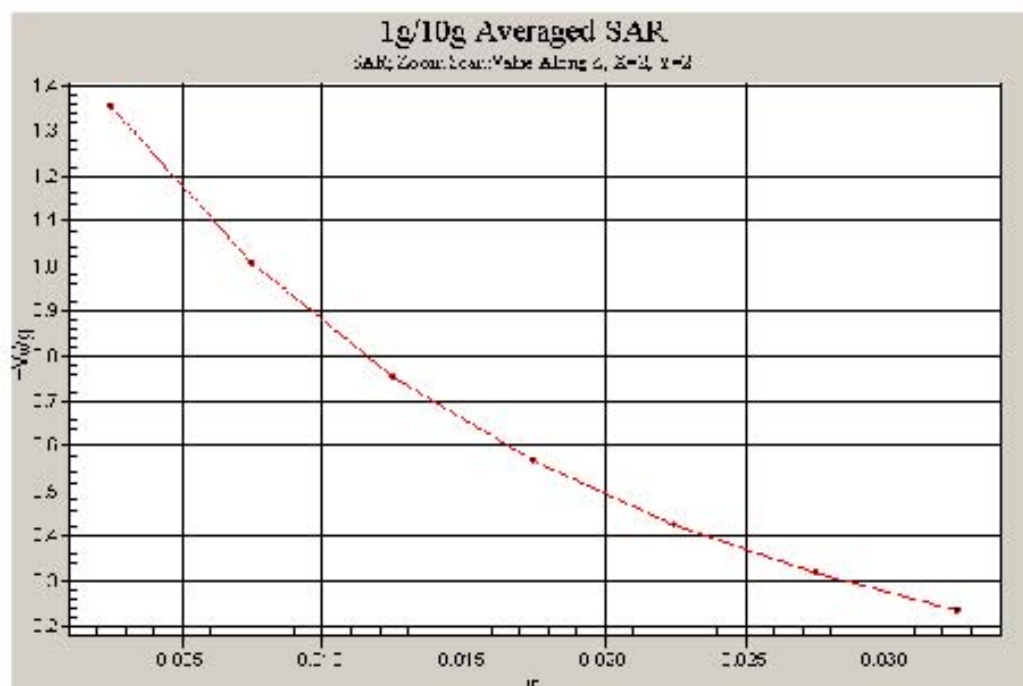
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
 Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
 Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-27; Ambient Temp: 22.3; Tissue Temp: 22.4

1cm space from Body, Rear, GSM850 GPRS Class 12 Ch. 128, Ant Internal

Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Power Drift = -0.009 dB
 Peak SAR (extrapolated) = 1.57 W/kg
 SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.850 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

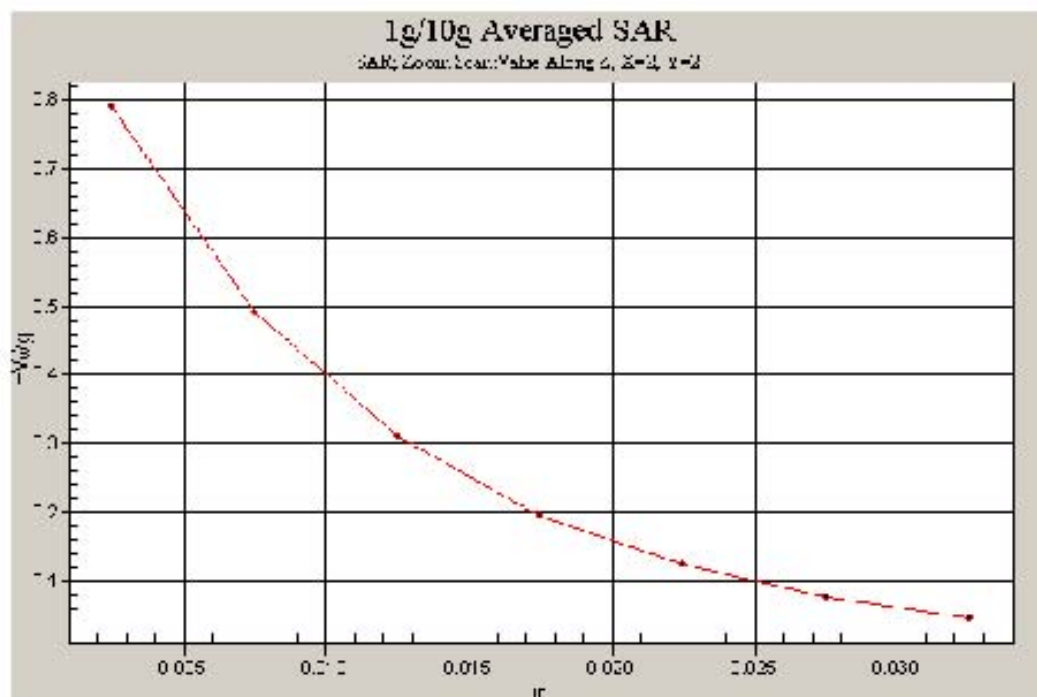
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.26, 8.26, 8.26); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
 Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
 Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

Left Touch, PCS1900 Ch. 661, Ant Internal, Standard Battery

Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Power Drift = -0.057 dB
 Peak SAR (extrapolated) = 1.02 W/kg
 SAR(1 g) = 0.627 W/kg; SAR(10 g) = 0.358 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:2.075
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

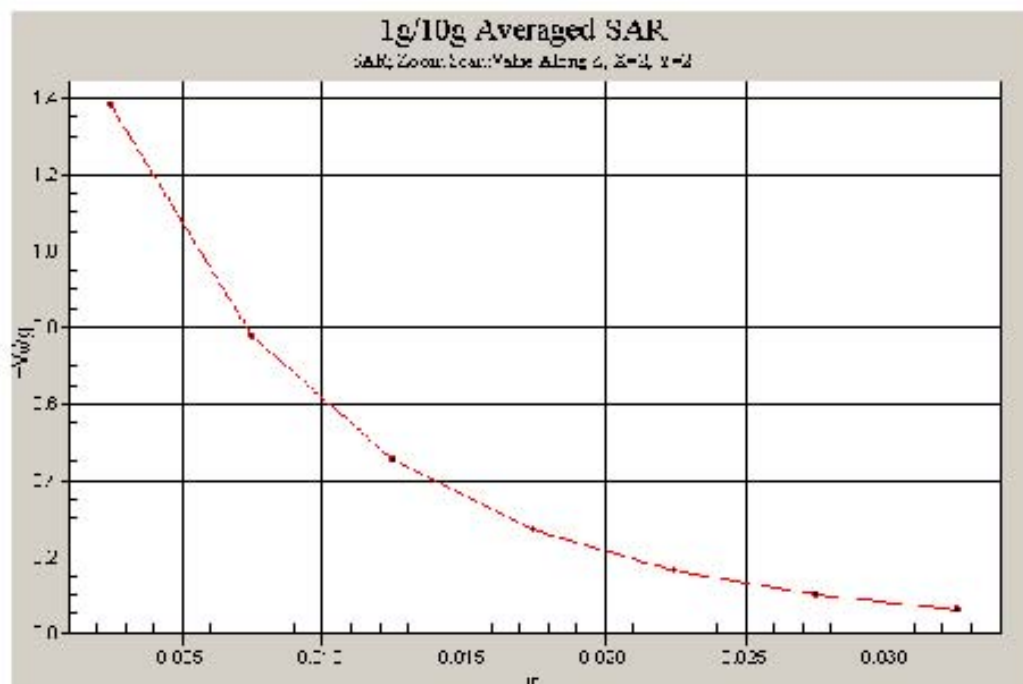
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.19, 7.19, 7.19); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
 Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
 Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-06-28; Ambient Temp: 22.2; Tissue Temp: 22.4

1cm space from Body, Rear, PCS1900 GPRS Class 12 Ch. 661, Ant Internal

Area Scan (71x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Power Drift = -0.089 dB
 Peak SAR (extrapolated) = 1.92 W/kg
 SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.589 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 826.4 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.879$ mho/m; $\epsilon_r = 43$; $\rho = 1000$ kg/m³
 Phantom section: Right Section

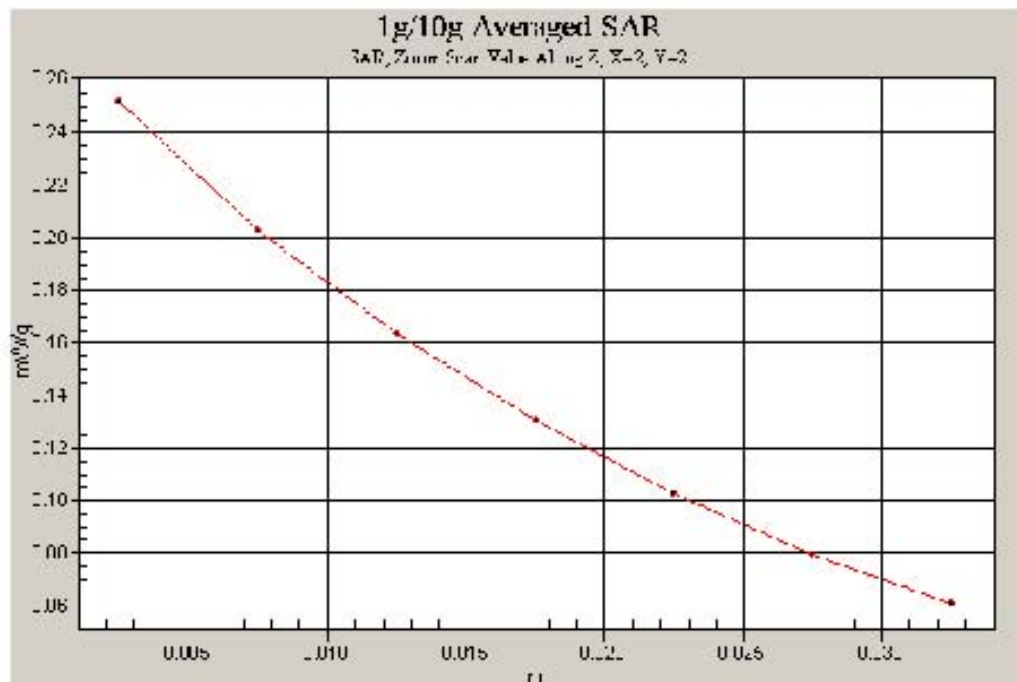
DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.96, 8.96, 8.96); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
 Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223
 Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

Right Touch, WCDMA850 Ch. 4132, Ant Internal, Standard Battery

Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Power Drift = 0.139 dB
 Peak SAR (extrapolated) = 0.282 W/kg
 SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.170 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 826.4 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 826.4 \text{ MHz}$; $\sigma = 0.934 \text{ mho/m}$; $\epsilon_r = 55.3$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(8.97, 8.97, 8.97); Calibrated: 2011-01-24; Electronics: DAE3 Sn519

Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223

Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

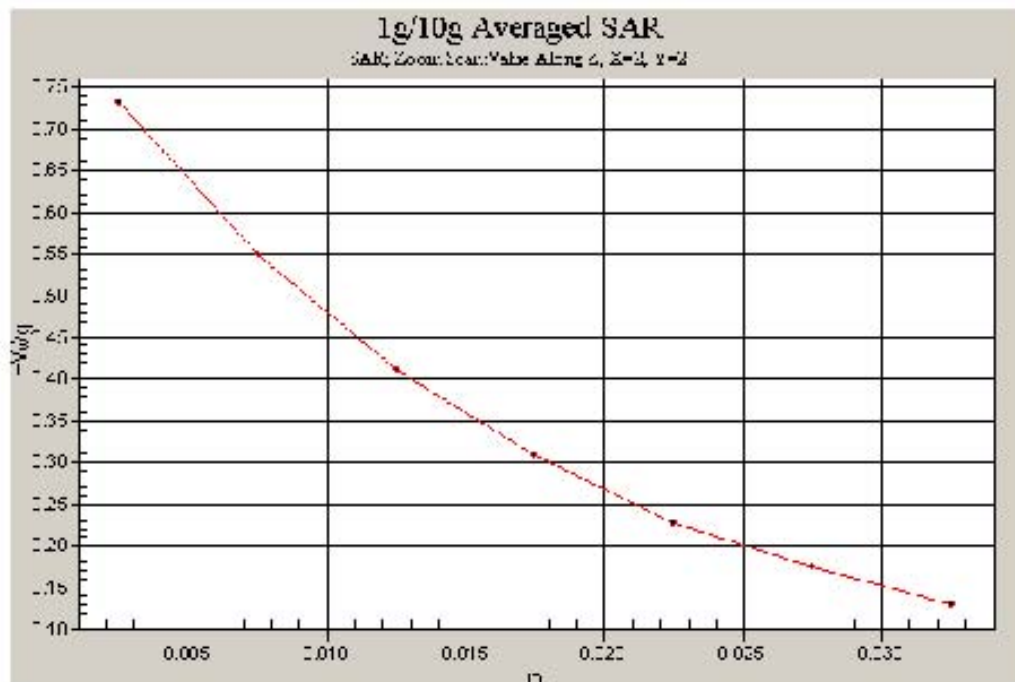
Test Date: 2011-06-30; Ambient Temp: 22.3; Tissue Temp: 22.6

1cm space from Body, Rear, WCDMA850 Ch. 4132, Ant Internal**Area Scan (71x121x1):** Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.851 W/kg

SAR(1 g) = 0.635 W/kg; SAR(10 g) = 0.460 W/kg



DIGITAL EMC CO., LTD**DUT: LG-E510f; Type: Bar**

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.4, 7.4, 7.4); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Date: 2011-07-18; Ambient Temp: 22.4; Tissue Temp: 22.5

Right Touch, W-LAN(802.11b) Ch. 6, Ant Internal, Standard Battery

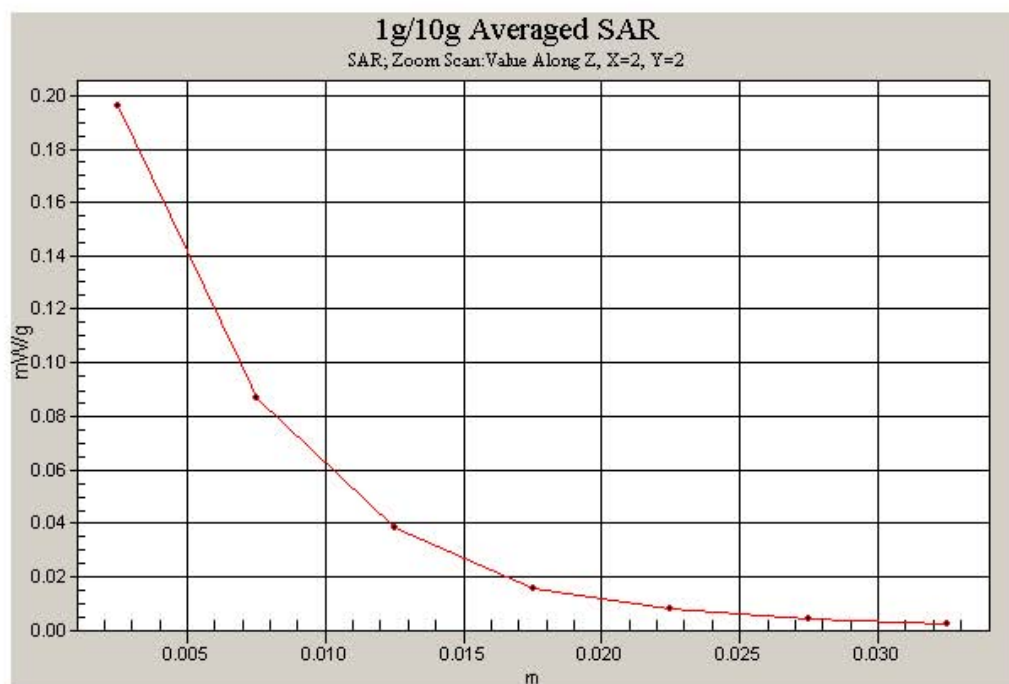
Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.243 dB

Peak SAR (extrapolated) = 0.321 W/kg

SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.063 W/kg



DIGITAL EMC CO., LTD

DUT: LG-E510f; Type: Bar

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.03, 7.03, 7.03); Calibrated: 2011-01-24; Electronics: DAE3 Sn519
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224
Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Test Date: 2011-07-18 Ambient Temp: 22.4; Tissue Temp: 22.5

1cm space from Body, Rear, W-LAN(802.11b) Ch. 6, Ant Internal

Area Scan (81x121x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.069 W/kg

