

Attachment 2. – SAR Test Plots

DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 40.841$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

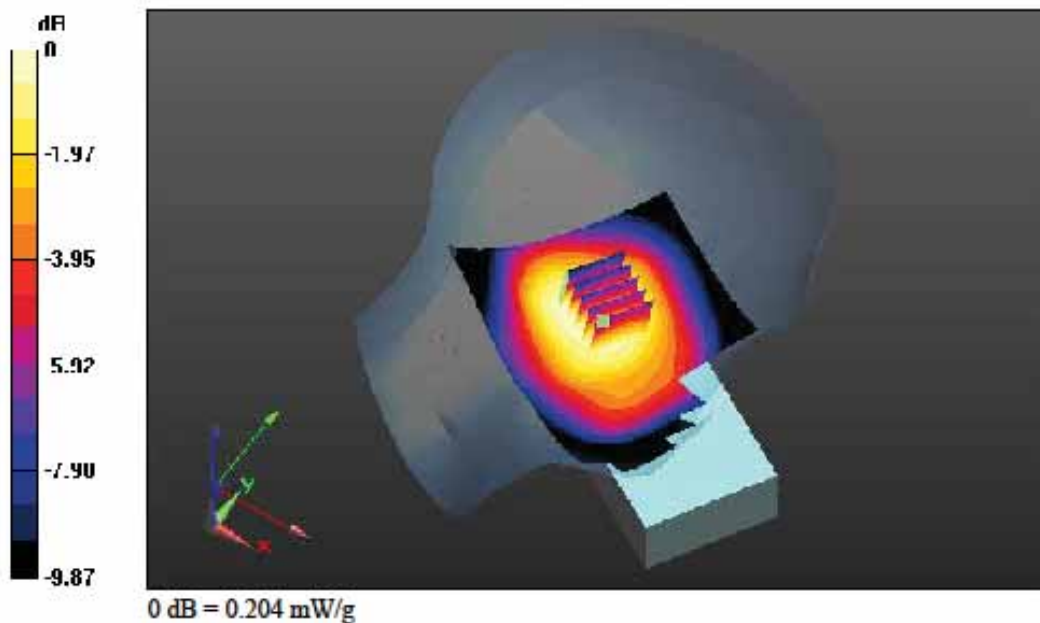
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp: 22.7

Left Touch, GSM850 Ch. 190, Ant Internal, Standard Battery**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 = 0.01 dB

Peak SAR (extrapolated) = 0.231 mW/g

SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.133 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 40.841$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

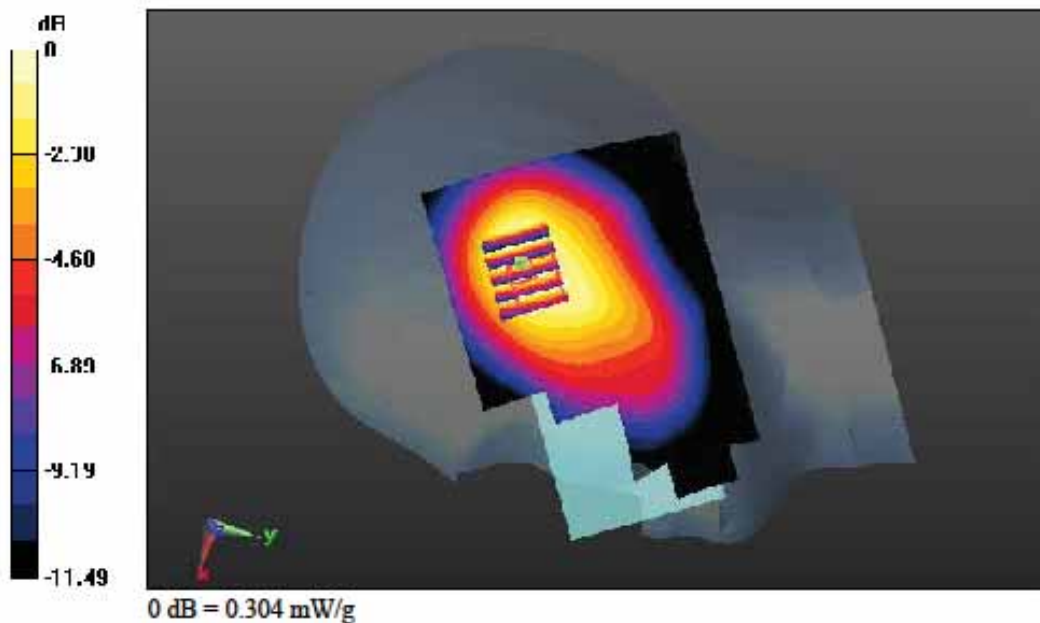
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp: 22.7

Right Touch, GSM850 Ch. 190, Ant Internal, Standard Battery**Area Scan (81x131x1):** 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 = -0.10 dB

Peak SAR (extrapolated) = 0.355 mW/g

SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.177 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.887$ mho/m; $\epsilon_r = 40.841$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

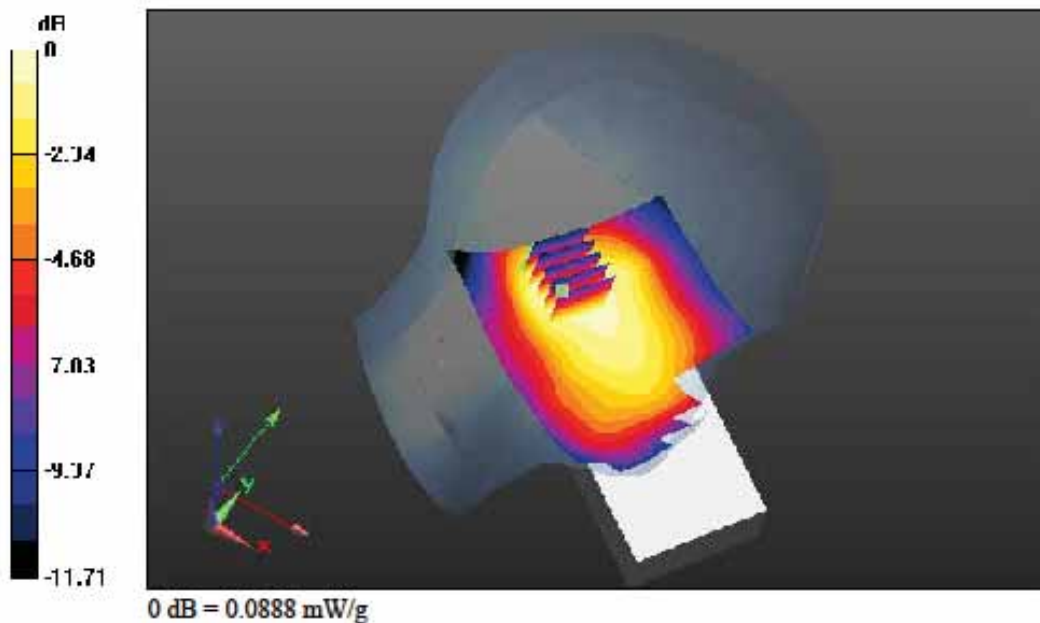
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp: 22.7

Left Tilt, GSM850 Ch. 190, Ant Internal, Standard Battery**Area Scan (81x131x1):** Measurement grid: dx=15mm, dy=15mm**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.108 mW/g

SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.047 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.887$ mho/m; $\epsilon_r = 40.841$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

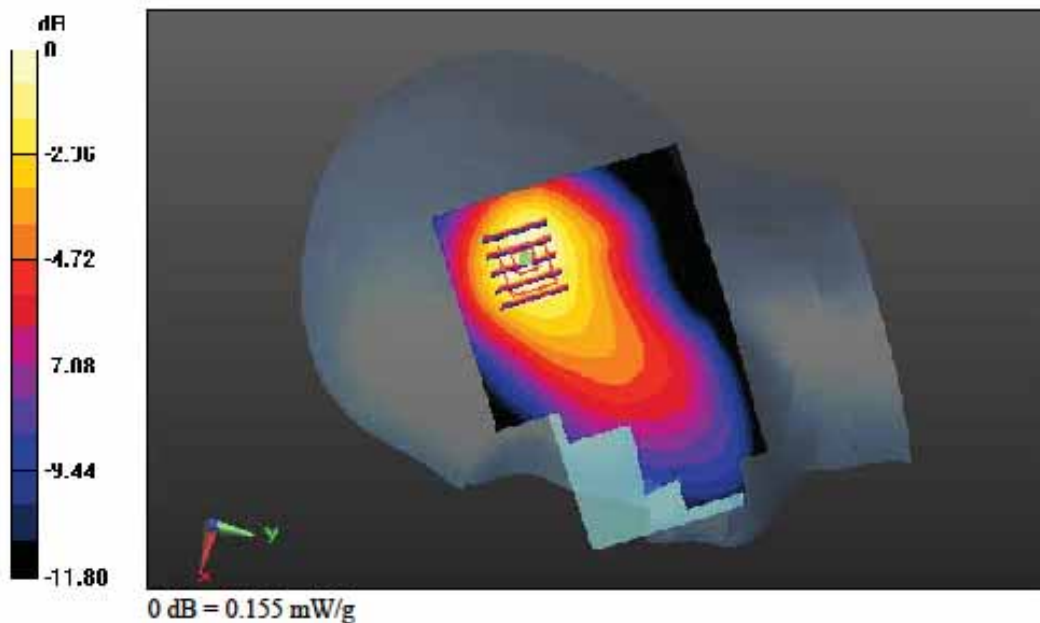
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp: 22.7

Right Tilt, GSM850 Ch. 190, Ant Internal, Standard Battery**Area Scan (81x131x1):** Measurement grid: dx=15mm, dy=15mm**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.185 mW/g

SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.080 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.419 \text{ mho/m}$; $\epsilon_r = 40.527$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.76, 7.76, 7.76); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

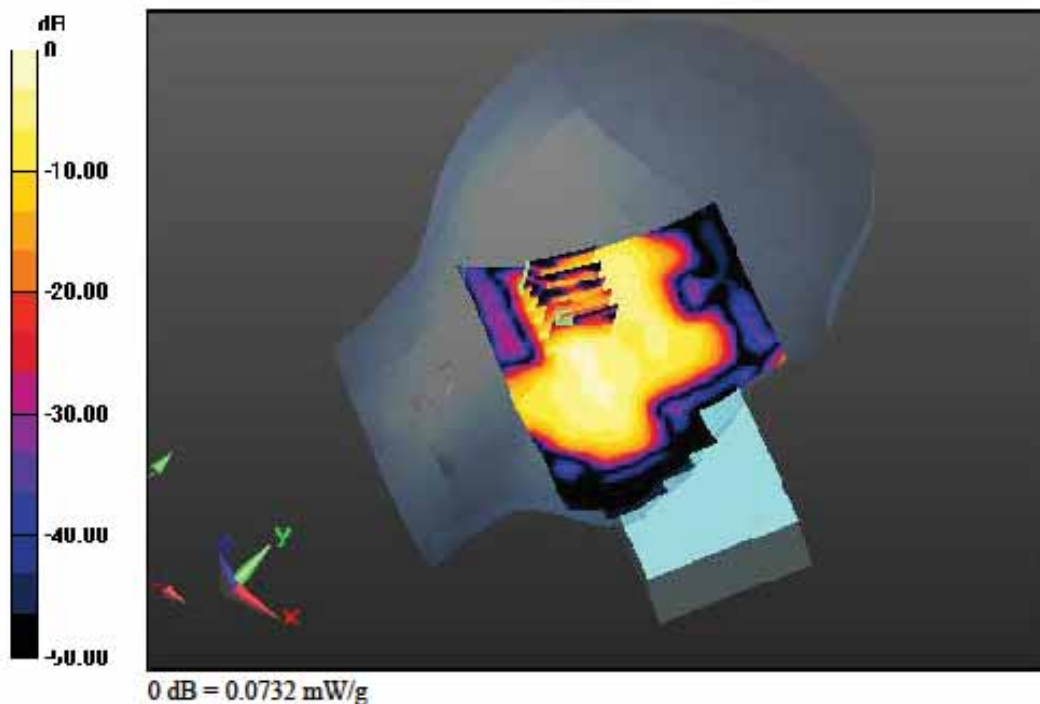
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp: 22.7

Left Touch, PCS1900 Ch. 66L, Ant Internal, Standard Battery**Area Scan (81x131x1):** 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 = -0.04 dB

Peak SAR (extrapolated) = 0.093 mW/g

SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.023 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.419 \text{ mho/m}$; $\epsilon_r = 40.527$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

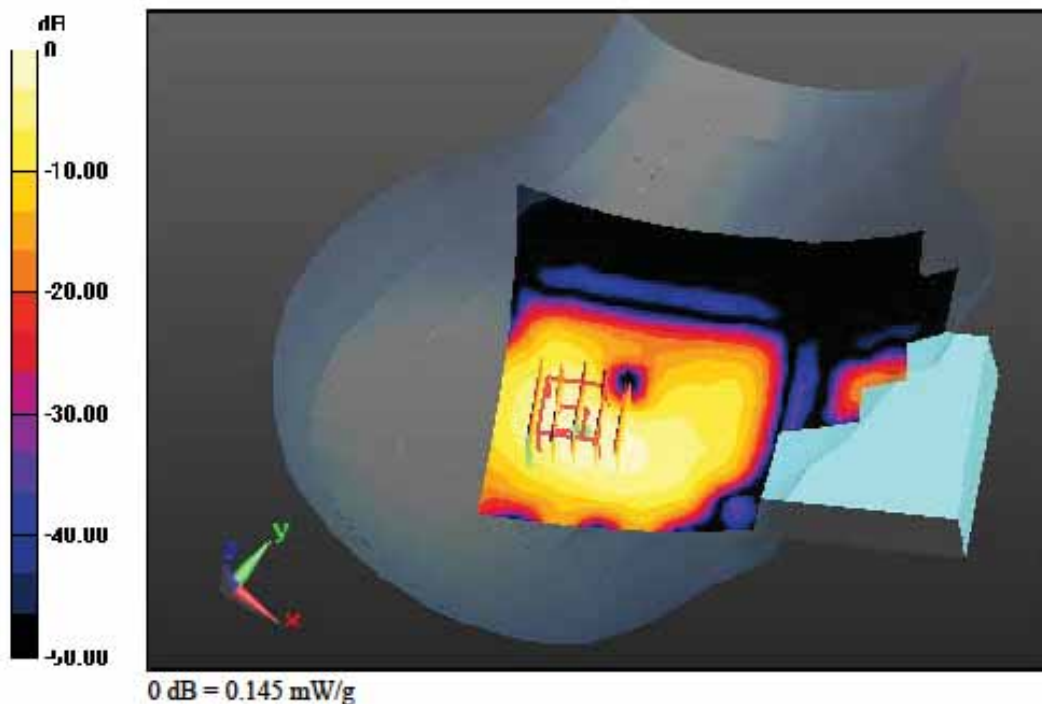
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.76, 7.76, 7.76); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp: 22.7

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

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 = 0.11 dB
Peak SAR (extrapolated) = 0.193 mW/g
SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.047 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.419 \text{ mho/m}$; $\epsilon_r = 40.527$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.76, 7.76, 7.76); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

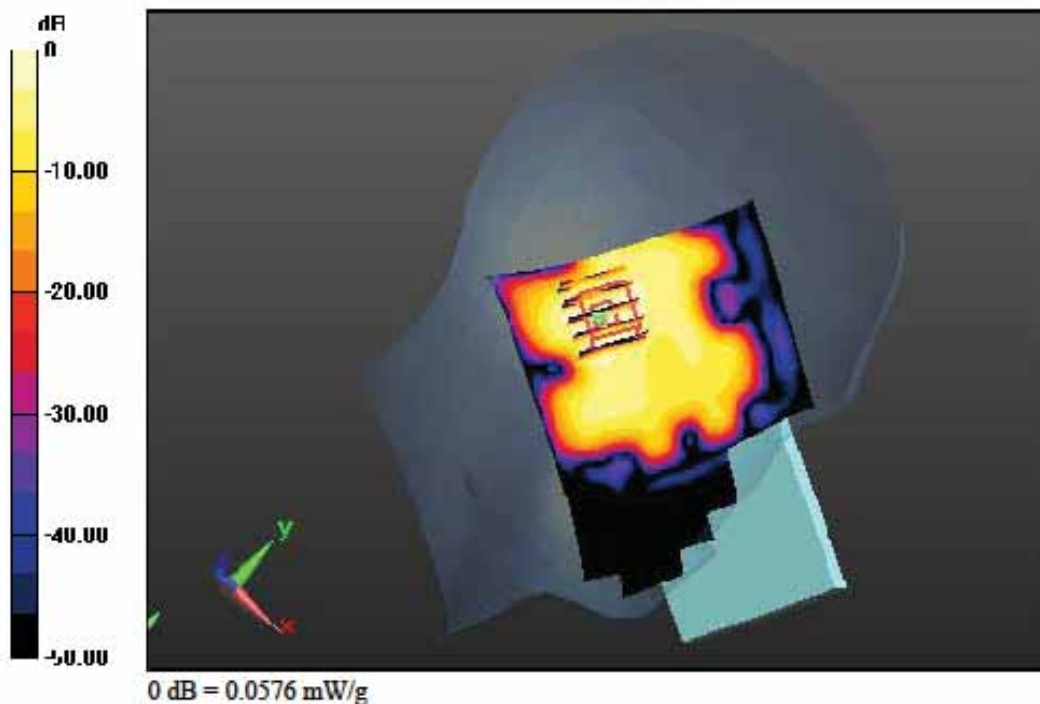
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp: 22.7

Left Tilt, PCS1900 Ch. 661, Ant Internal, Standard Battery**Area Scan (81x131x1):** 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 = -0.00 dB

Peak SAR (extrapolated) = 0.084 mW/g

SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.019 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.419 \text{ mho/m}$; $\epsilon_r = 40.527$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

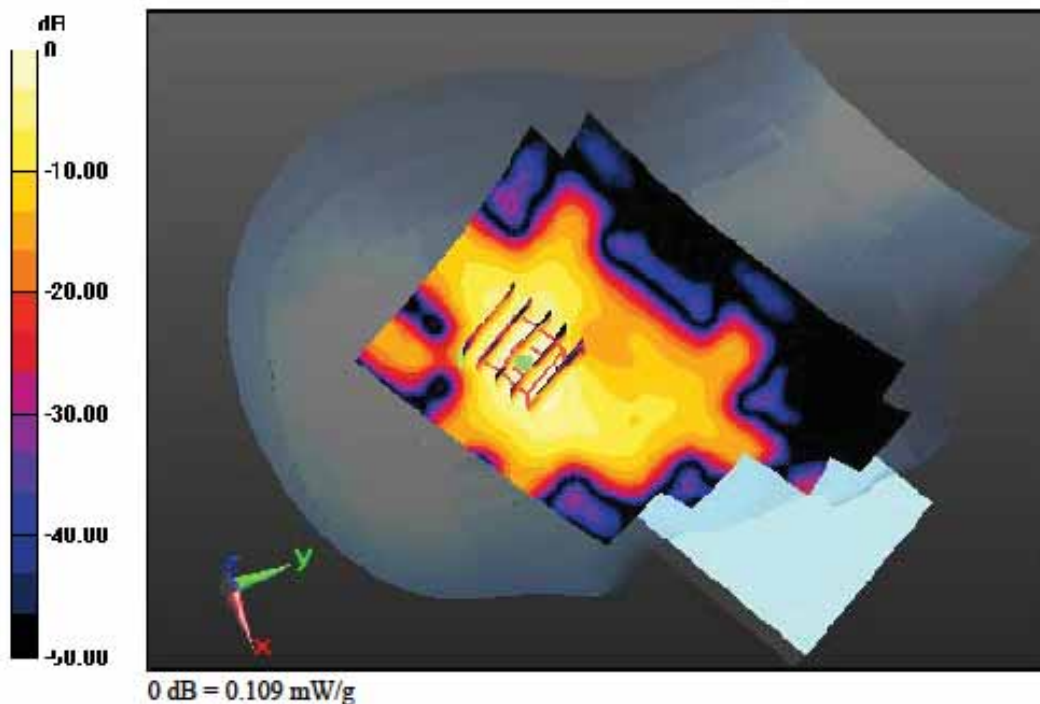
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.76, 7.76, 7.76); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp: 22.7

Right Tilt, PCS1900 Ch. 661, Ant Internal, Standard Battery

Area Scan (81x141x1): 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 = 0.12 dB
Peak SAR (extrapolated) = 0.139 mW/g
SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.035 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 41.785$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

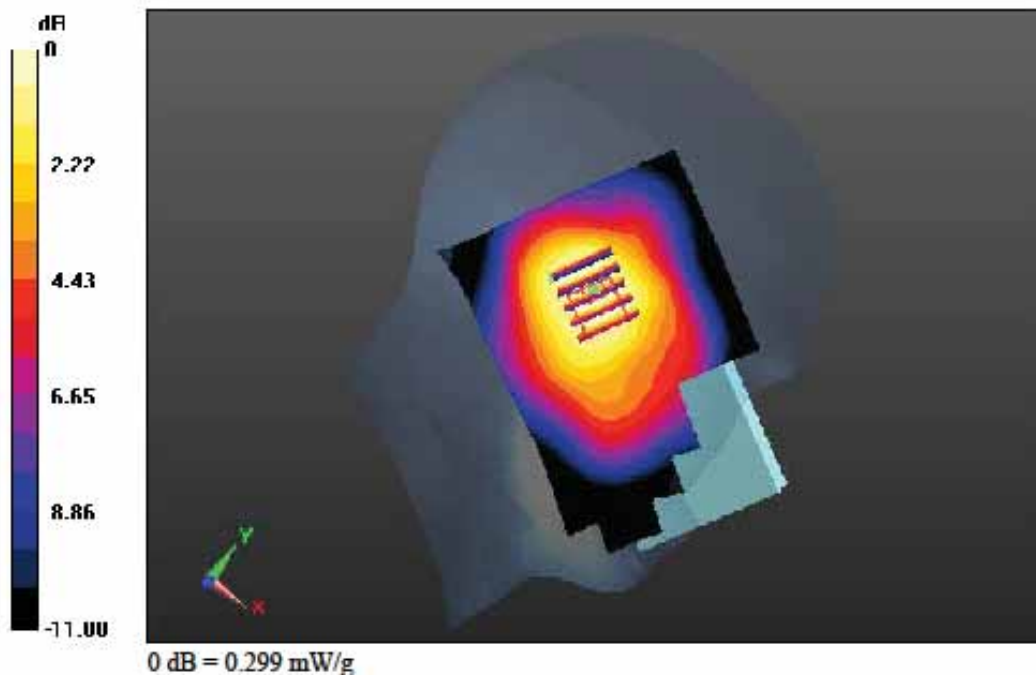
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-23; Ambient Temp: 22.1 Tissue Temp: 22.2

Left Touch, WCDMA850 Ch. 4183, Ant Internal, Standard Battery

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 = 0.19 dB
Peak SAR (extrapolated) = 0.356 mW/g
SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.179 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 41.785$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

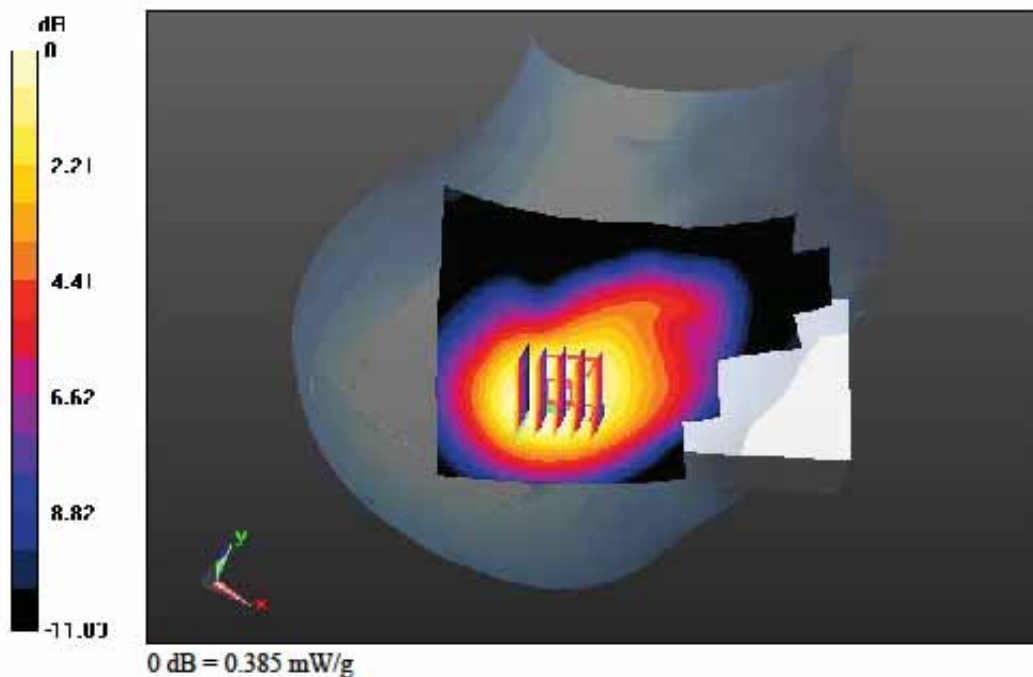
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-23; Ambient Temp: 22.1 Tissue Temp: 22.2

Right Touch, WCDMA850 Ch. 4183, Ant Internal, Standard Battery

Area Scan (81x131x1): 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 = -0.10 dB
Peak SAR (extrapolated) = 0.447 mW/g
SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.239 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 41.785$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

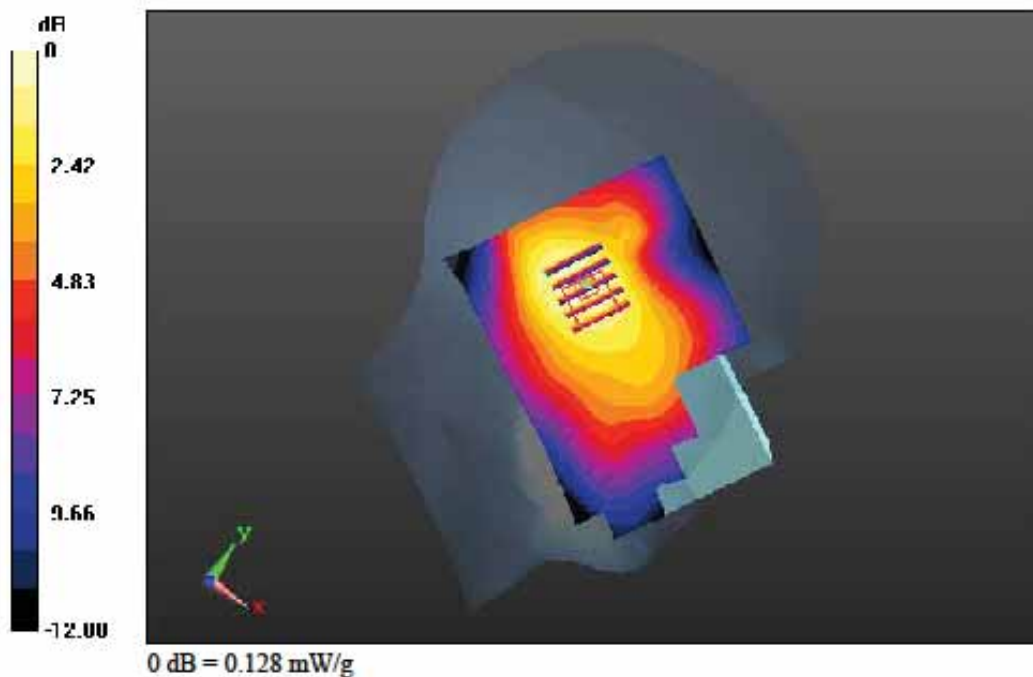
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-23; Ambient Temp: 22.1 Tissue Temp: 22.2

Left Tilt, WCDMA850 Ch. 4183, Ant Internal, Standard Battery

Area Scan (81x131x1): 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 = 0.04 dB
Peak SAR (extrapolated) = 0.152 mW/g
SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.070 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.892$ mho/m; $\epsilon_r = 41.785$; $\rho = 1000$ kg/m³
Phantom section: Right Section

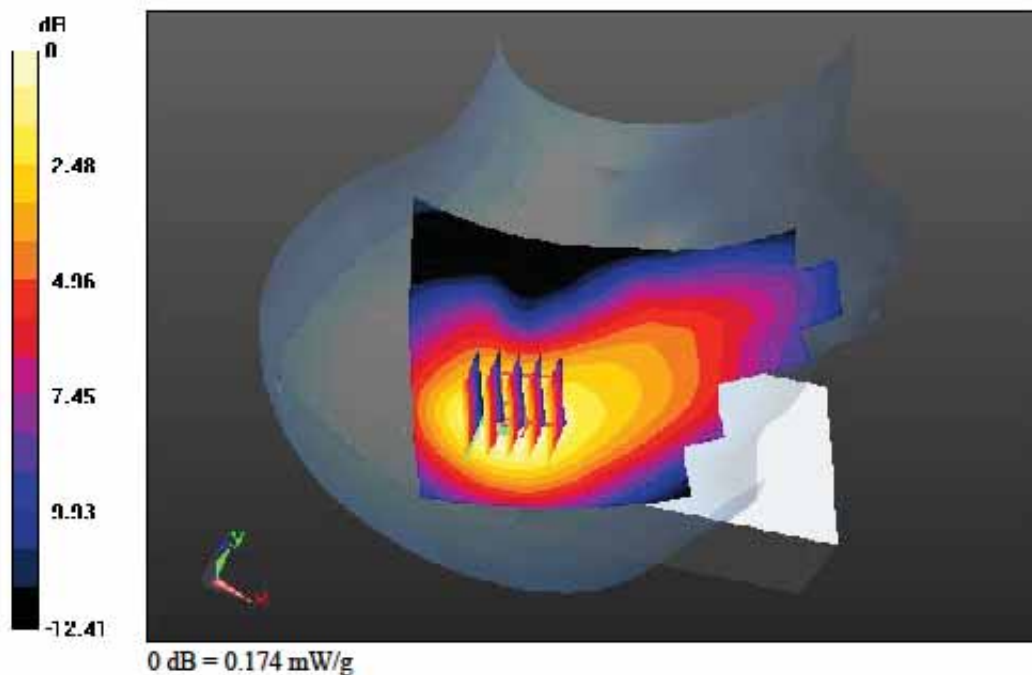
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(8.98, 8.98, 8.98); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-23; Ambient Temp: 22.1 Tissue Temp: 22.2

Right Tilt, WCDMA850 Ch. 4183, Ant Internal, Standard Battery

Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.206 mW/g
SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.094 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.418$ mho/m; $\epsilon_r = 40.205$; $\rho = 1000$ kg/m³
Phantom section: Left Section

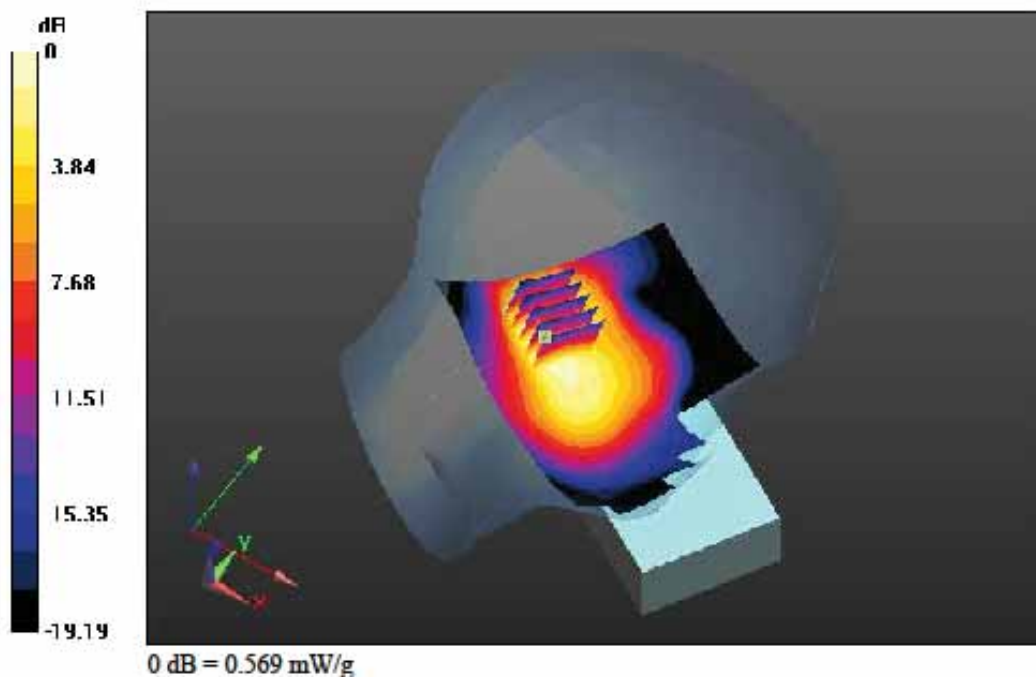
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.76, 7.76, 7.76); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp: 22.1

Left Touch, WCDMA1900 Ch. 9400, Ant Internal, Standard Battery

Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Power Drift = -0.20 dB
Peak SAR (extrapolated) = 0.755 mW/g
SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.223 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.418 \text{ mho/m}$; $\epsilon_r = 40.205$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

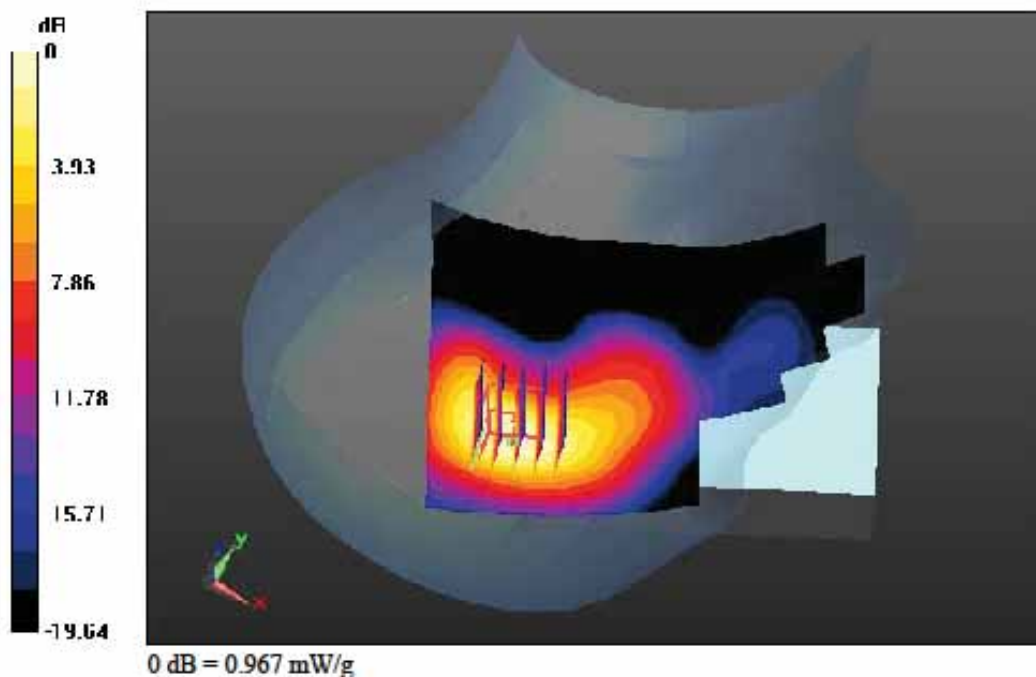
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.76, 7.76, 7.76); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp: 22.1

Right Touch, WCDMA1900 Ch. 9400, Ant Internal, Standard Battery

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 = 0.07 dB
Peak SAR (extrapolated) = 1.386 mW/g
SAR(1 g) = 0.710 mW/g; SAR(10 g) = 0.368 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.418 \text{ mho/m}$; $\epsilon_r = 40.205$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

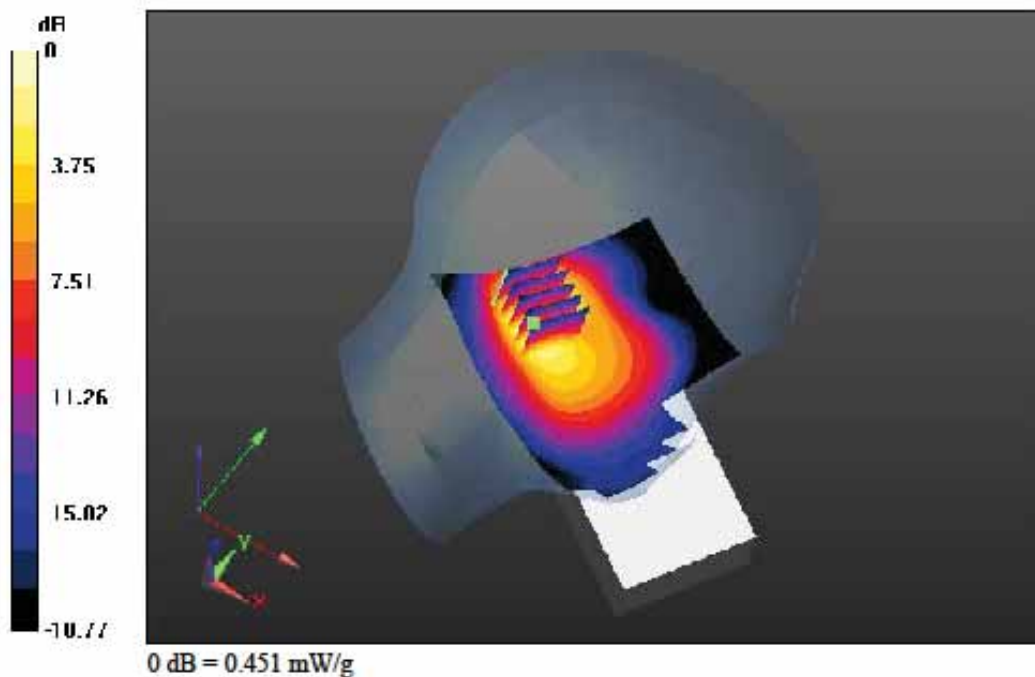
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.76, 7.76, 7.76); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp: 22.1

Left Tilt, WCDMA1900 Ch. 9400, Ant Internal, Standard Battery

Area Scan (81x131x1): 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 = -0.13 dB
Peak SAR (extrapolated) = 0.588 mW/g
SAR(1 g) = 0.331 mW/g; SAR(10 g) = 0.180 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.418 \text{ mho/m}$; $\epsilon_r = 40.205$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

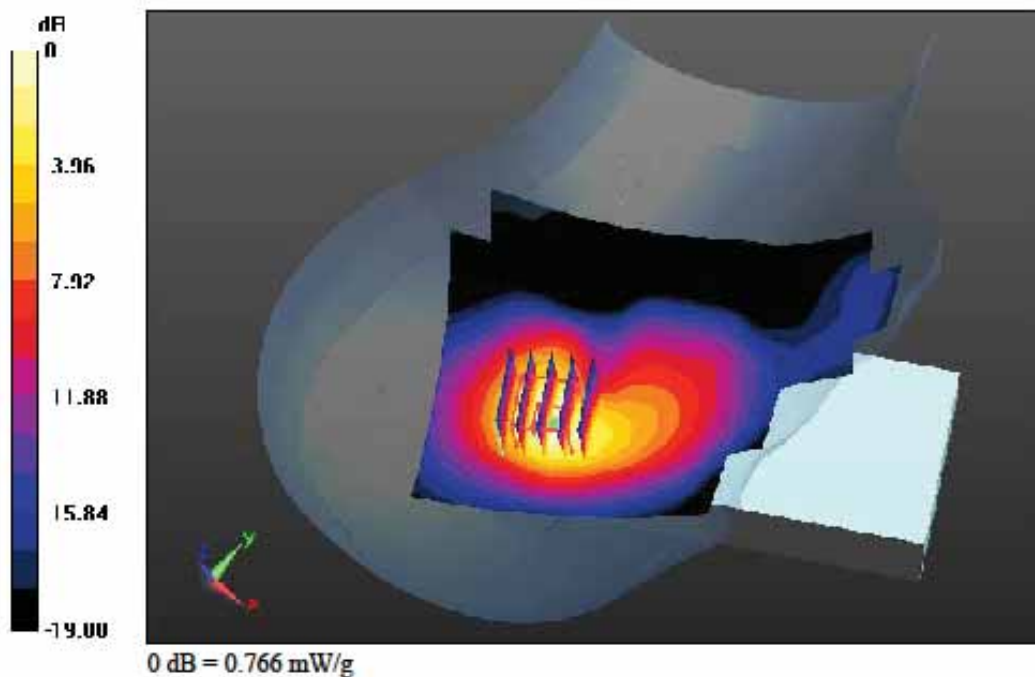
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.76, 7.76, 7.76); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial: 1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp: 22.1

Right Tilt, WCDMA1900 Ch. 9400, Ant Internal, Standard Battery

Area Scan (81x141x1): 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 = 0.20 dB
Peak SAR (extrapolated) = 0.994 mW/g
SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.268 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: GSM 850_10; Frequency: 836.6 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.988$ mho/m; $\epsilon_r = 53.115$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(9.03, 9.03, 9.03); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

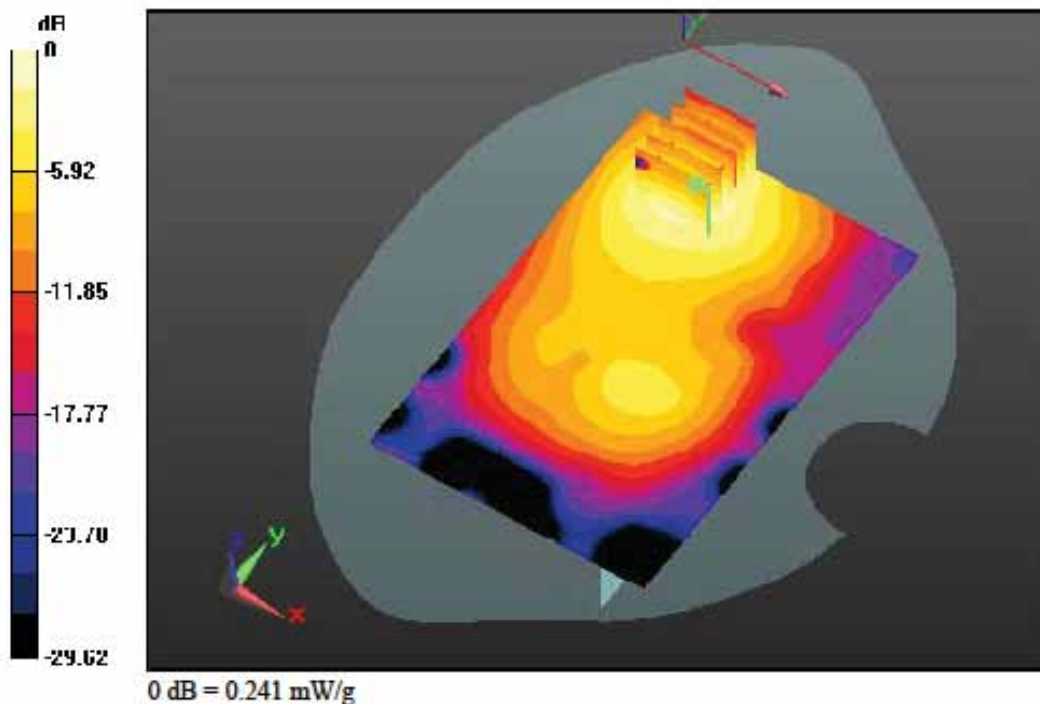
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp:22.7

Touch from Body, Front, GSM850 GPRS Class 10 Ch. 190, Ant Internal**Area Scan (81x121x1):** Measurement grid: dx=15mm, dy=15mm**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.291 mW/g

SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.116 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.988$ mho/m; $\epsilon_r = 53.115$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(9.03, 9.03, 9.03); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

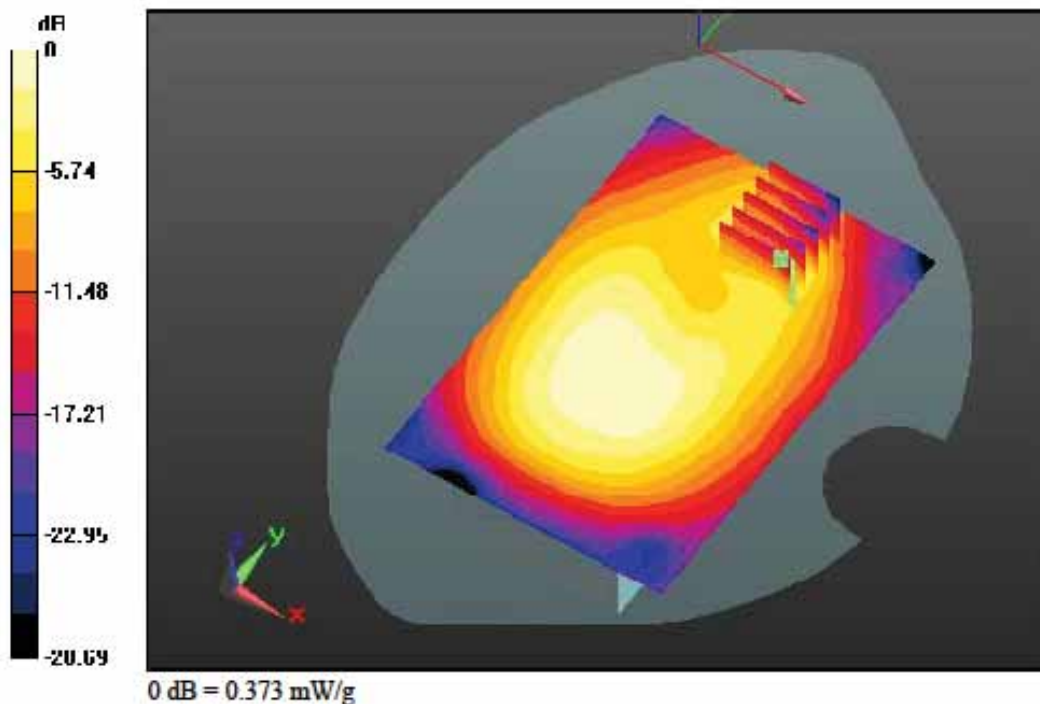
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp:22.7

Touch from Body, Rear, GSM850 Ch. 190, Ant Internal**Area Scan (81x121x1):** Measurement grid: dx=15mm, dy=15mm**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.520 mW/g

SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.126 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.988 \text{ mho/m}$; $\epsilon_r = 53.115$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(9.03, 9.03, 9.03); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

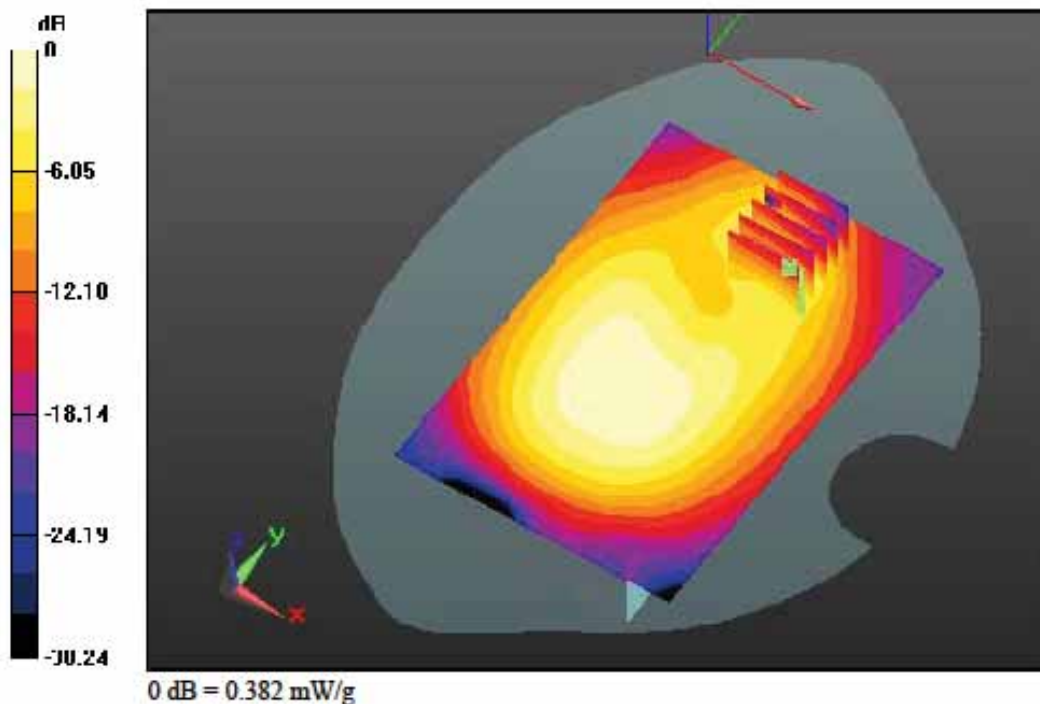
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp:22.7

Touch from Body, Rear, GSM850 GPRS Class 8 Ch. 190, 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 = -0.16 dB

Peak SAR (extrapolated) = 0.528 mW/g

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.127 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: GSM 850_10; Frequency: 836.6 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.988$ mho/m; $\epsilon_r = 53.115$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(9.03, 9.03, 9.03); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

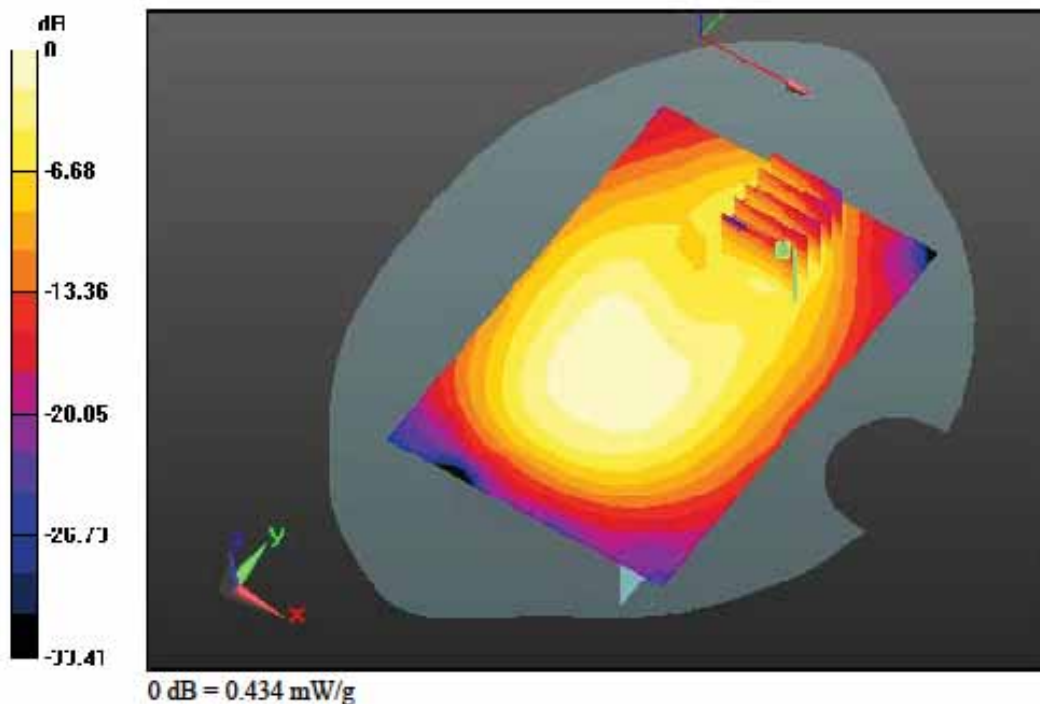
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp:22.7

Touch from Body, Rear, GSM850 GPRS Class 10 Ch. 190, Ant Internal**Area Scan (81x121x1):** Measurement grid: dx=15mm, dy=15mm**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.607 mW/g

SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.147 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.502 \text{ mho/m}$; $\epsilon_r = 52.359$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

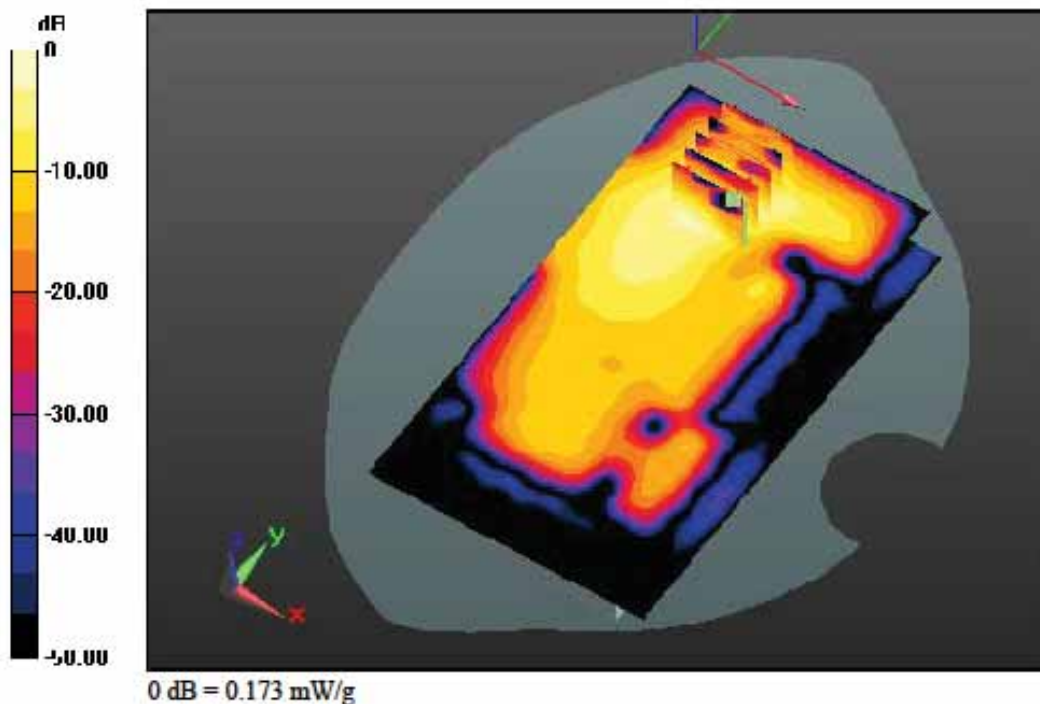
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp:22.7

Touch from Body, Front, PCS1900 GPRS Class 8 Ch. 661, Ant Internal**Area Scan (81x141x1):** 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 = 0.15 dB

Peak SAR (extrapolated) = 0.240 mW/g

SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.052 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.502 \text{ mho/m}$; $\epsilon_r = 52.359$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

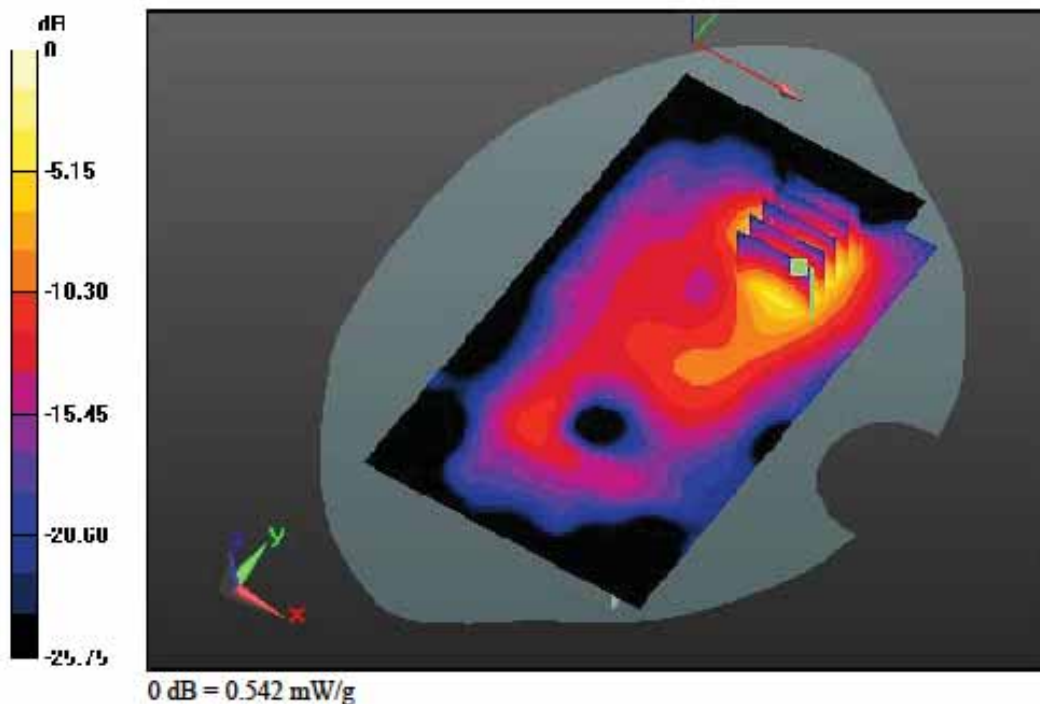
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp: 22.7

Touch from Body, Rear, PCS1900 Ch. 661, Ant Internal**Area Scan (81x141x1):** 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 = 0.05 dB

Peak SAR (extrapolated) = 0.776 mW/g

SAR(1 g) = 0.363 mW/g; SAR(10 g) = 0.173 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: PCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.502 \text{ mho/m}$; $\epsilon_r = 52.359$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

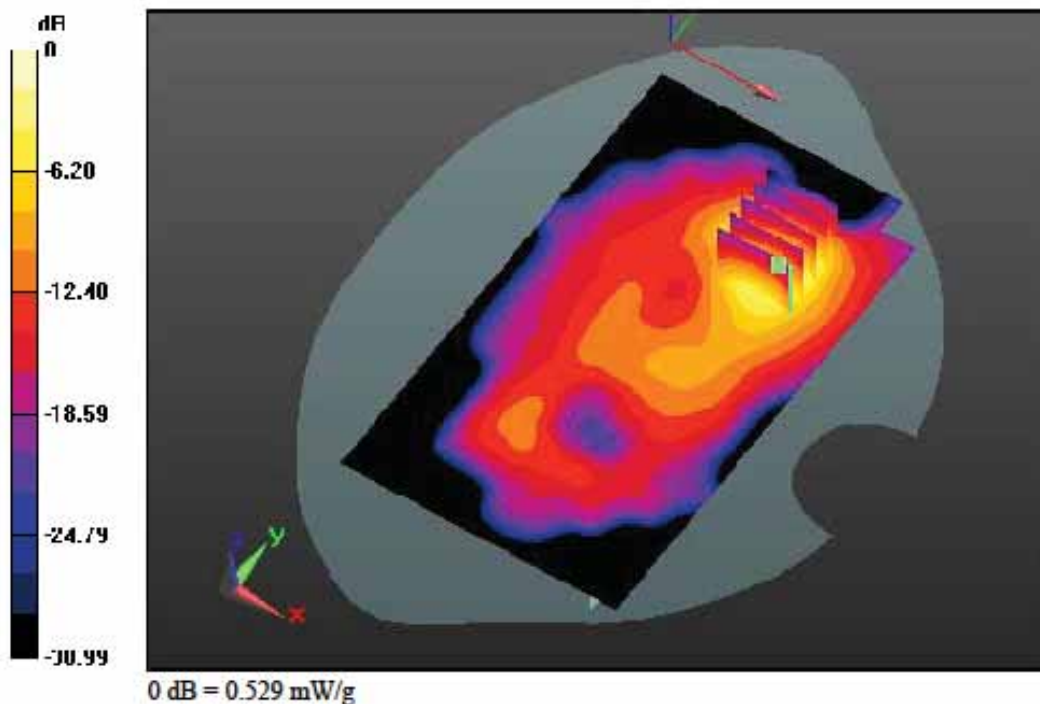
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp:22.7

Touch from Body, Rear, PCS1900 GPRS Class 8 Ch. 661, Ant Internal**Area Scan (81x141x1):** 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 = -0.19 dB

Peak SAR (extrapolated) = 0.780 mW/g

SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.176 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: PCS1900_Class 10; Frequency: 1880 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.502$ mho/m; $\epsilon_r = 52.359$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

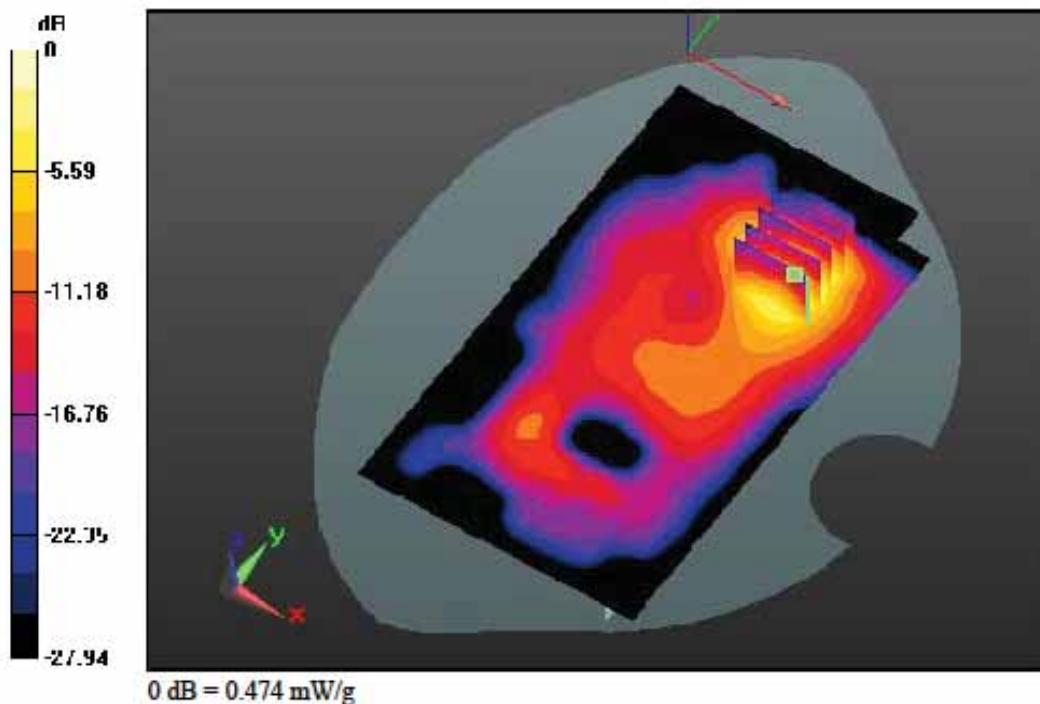
Test Date: 2012-09-13; Ambient Temp: 22.5; Tissue Temp:22.7

Touch from Body, Rear, PCS1900 GPRS Class 10 Ch. 661, Ant Internal**Area Scan (81x141x1):** Measurement grid: dx=15mm, dy=15mm**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.708 mW/g

SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.159 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.951$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

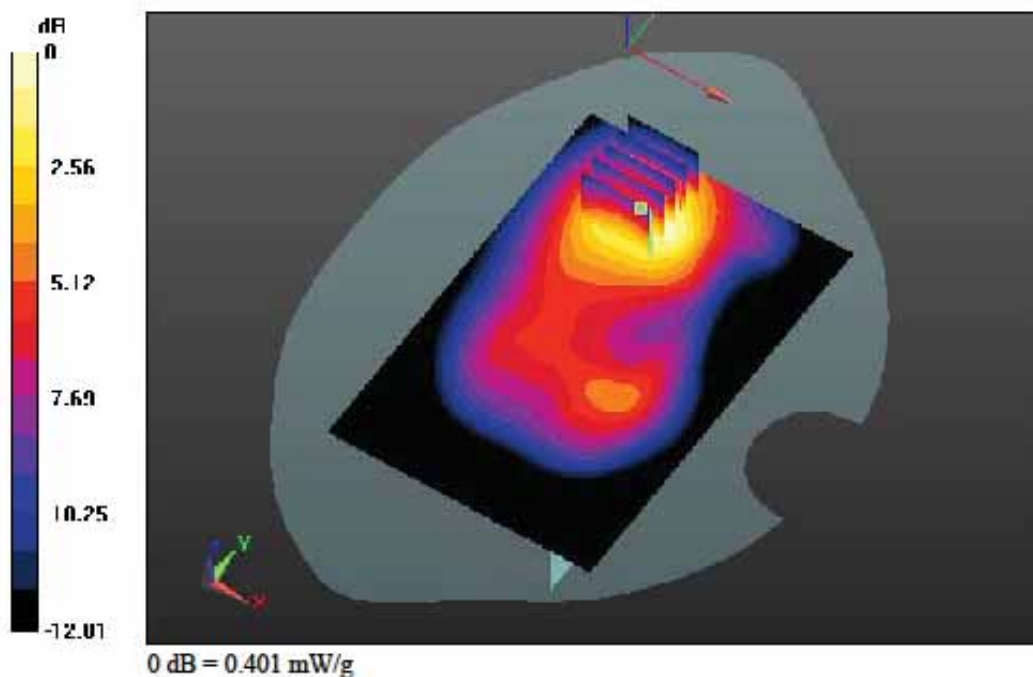
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(9.03, 9.03, 9.03); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-23; Ambient Temp: 22.1 Tissue Temp:22.2

Touch from Body, Front, WCDMA850 Ch. 4183, Ant Internal

Area Scan (81x121x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.478 mW/g
SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.202 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.951 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

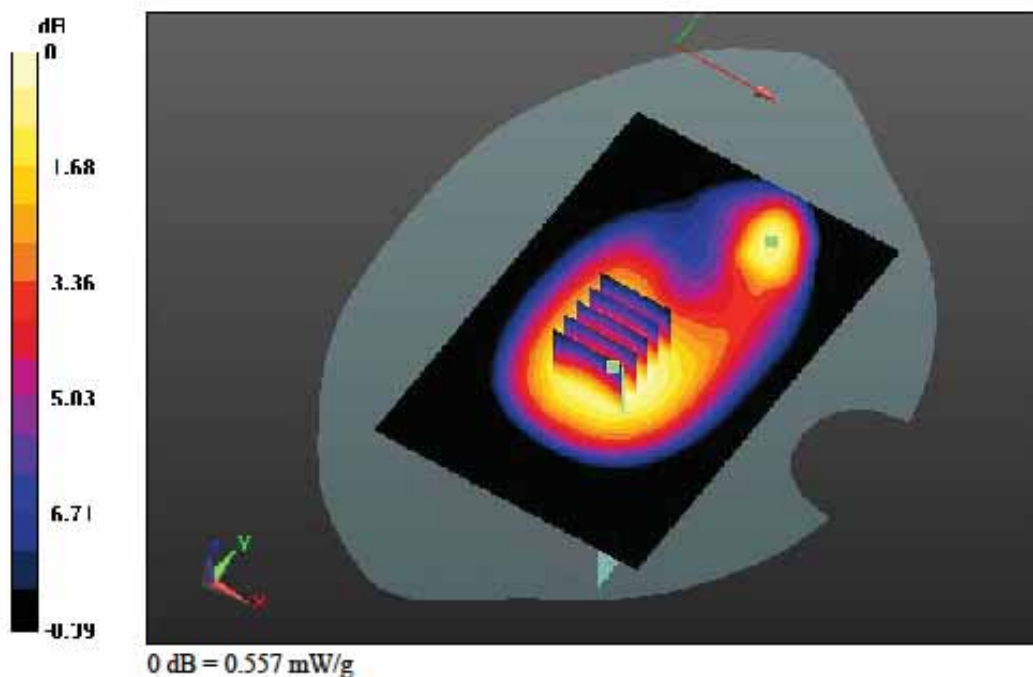
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(9.03, 9.03, 9.03); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-23; Ambient Temp: 22.1 Tissue Temp:22.2

Touch from Body, Rear, WCDMA850 Ch. 4183, 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 = -0.06 dB
Peak SAR (extrapolated) = 0.618 mW/g
SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.363 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 850 ; Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.951 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

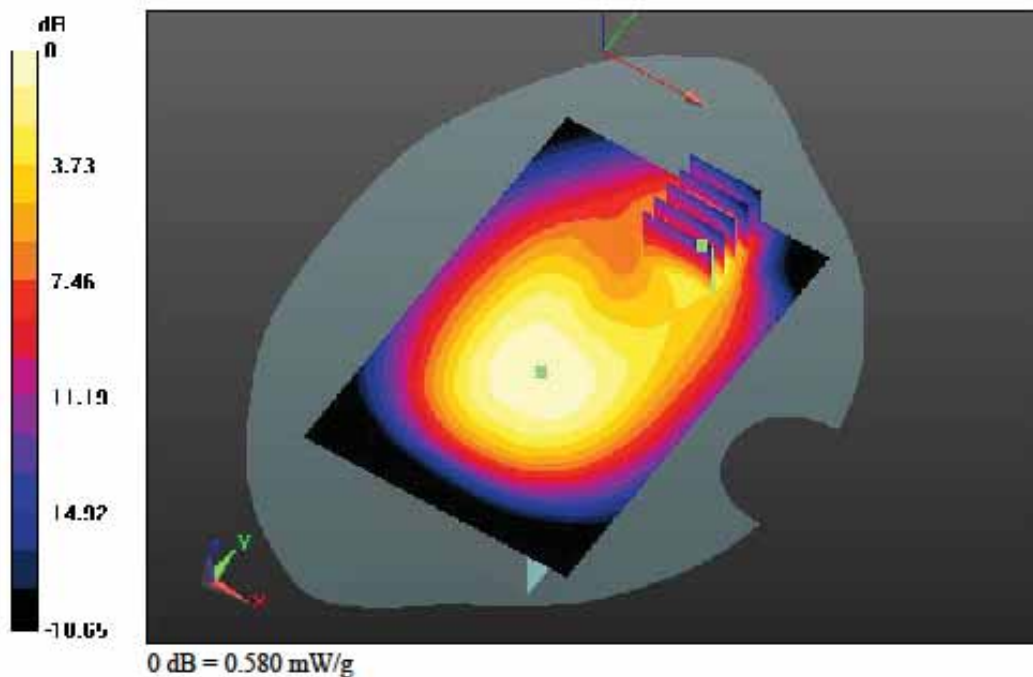
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(9.03, 9.03, 9.03); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-23; Ambient Temp: 22.1 Tissue Temp:22.2

Touch from Body, Rear, WCDMA850 Ch. 4183, 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 = -0.06 dB
Peak SAR (extrapolated) = 0.789 mW/g
SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.193 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.462$ mho/m; $\epsilon_r = 53.081$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

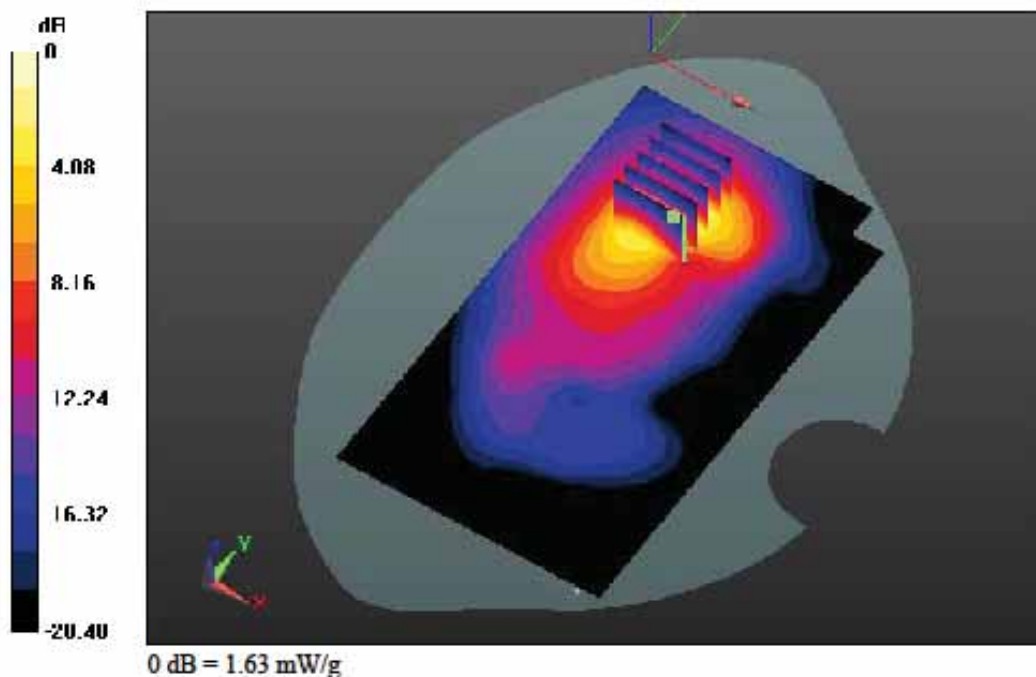
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp:22.1

Touch from Body, Front, WCDMA1900 Ch. 9262, Ant Internal

Area Scan (81x141x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Power Drift = -0.12 dB
Peak SAR (extrapolated) = 2.288 mW/g
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.517 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.499 \text{ mho/m}$; $\epsilon_r = 53.028$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

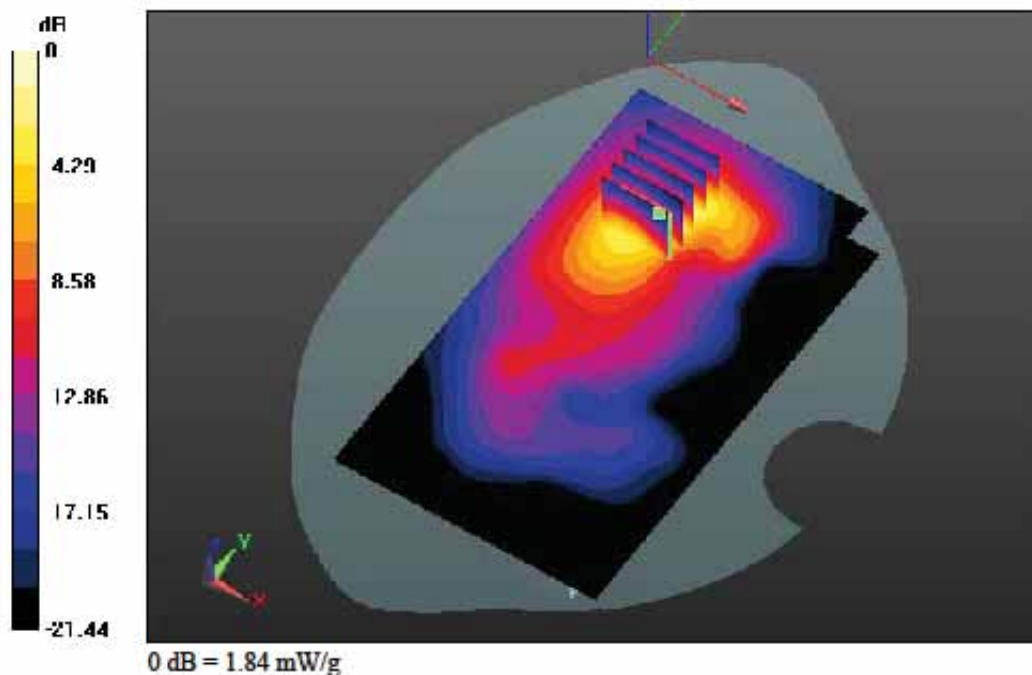
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp:22.1

Touch from Body, Front, WCDMA1900 Ch. 9400, Ant Internal

Area Scan (81x141x1): 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 = -0.07 dB
Peak SAR (extrapolated) = 2.605 mW/g
SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.581 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.529$ mho/m; $\epsilon_r = 52.944$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

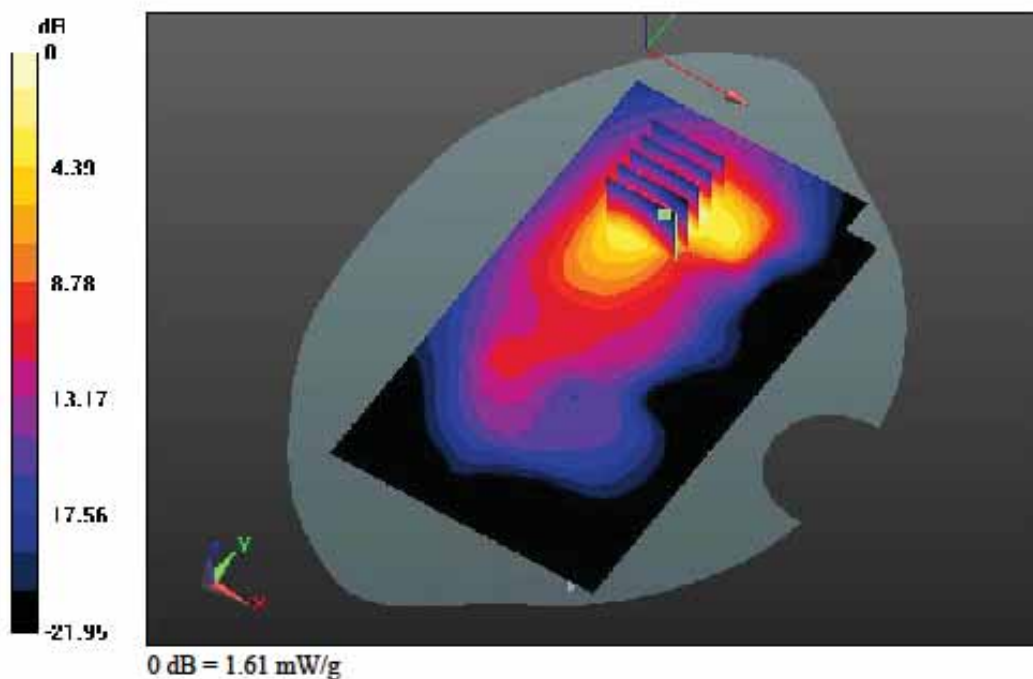
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp:22.1

Touch from Body, Front, WCDMA1900 Ch. 9538, Ant Internal

Area Scan (81x141x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Power Drift = -0.09 dB
Peak SAR (extrapolated) = 2.303 mW/g
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.516 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.462$ mho/m; $\epsilon_r = 53.081$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

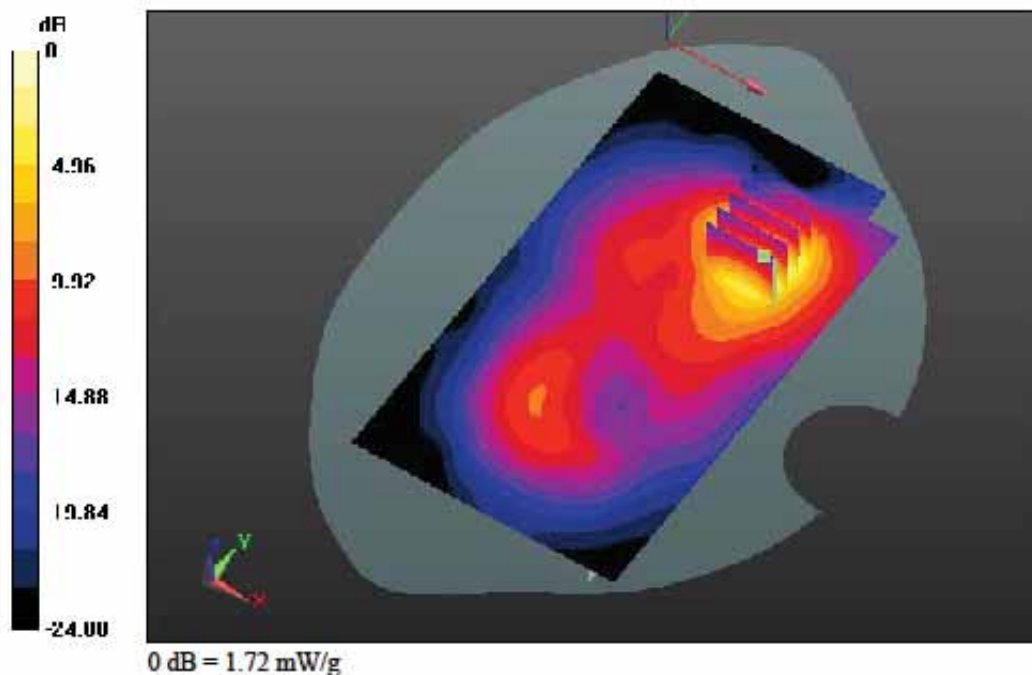
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp:22.1

Touch from Body, Rear, WCDMA1900 Ch. 9262, Ant Internal

Area Scan (81x141x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.470 mW/g
SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.606 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.499$ mho/m; $\epsilon_r = 53.028$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

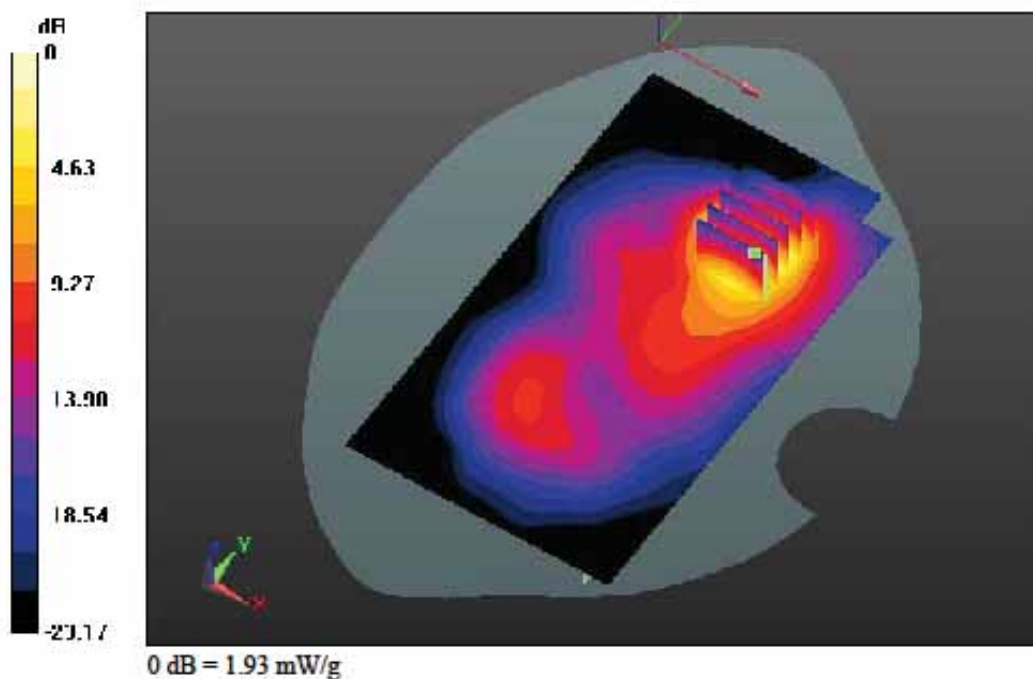
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp:22.1

Touch from Body, Rear, WCDMA1900 Ch. 9400, Ant Internal

Area Scan (81x141x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Power Drift = -0.14 dB
Peak SAR (extrapolated) = 2.739 mW/g
SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.672 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: WCDMA 1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.529$ mho/m; $\epsilon_r = 52.944$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

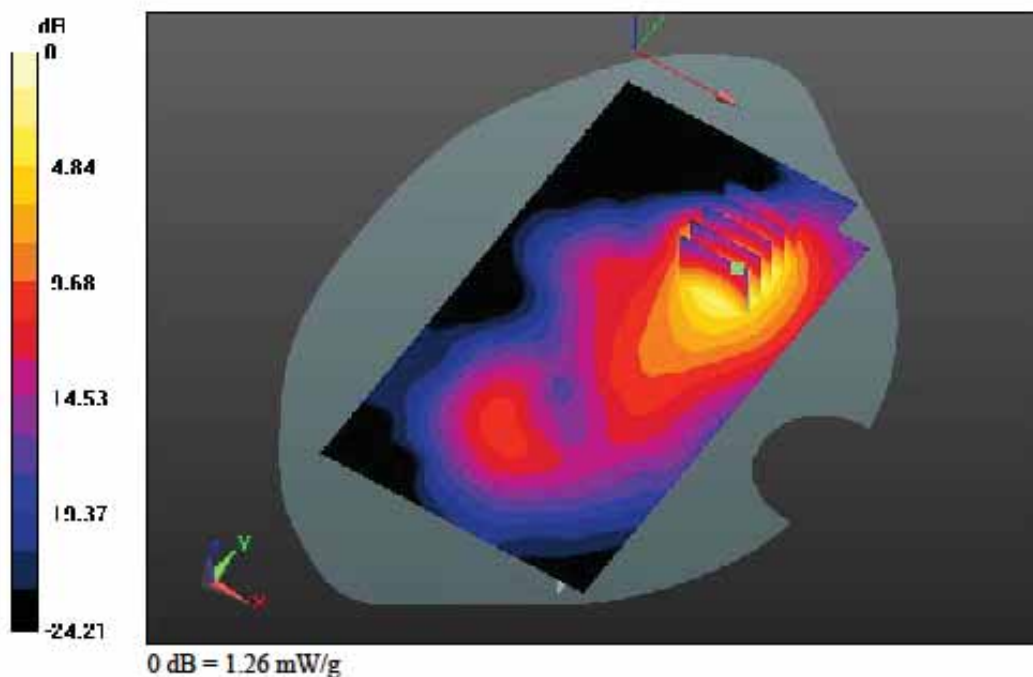
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(7.34, 7.34, 7.34); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-10-24; Ambient Temp: 22.0 Tissue Temp:22.1

Touch from Body, Rear, WCDMA1900 Ch. 9538, Ant Internal

Area Scan (81x141x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.726 mW/g
SAR(1 g) = 0.893 mW/g; SAR(10 g) = 0.459 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: W-LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.005 \text{ mho/m}$; $\epsilon_r = 51.386$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

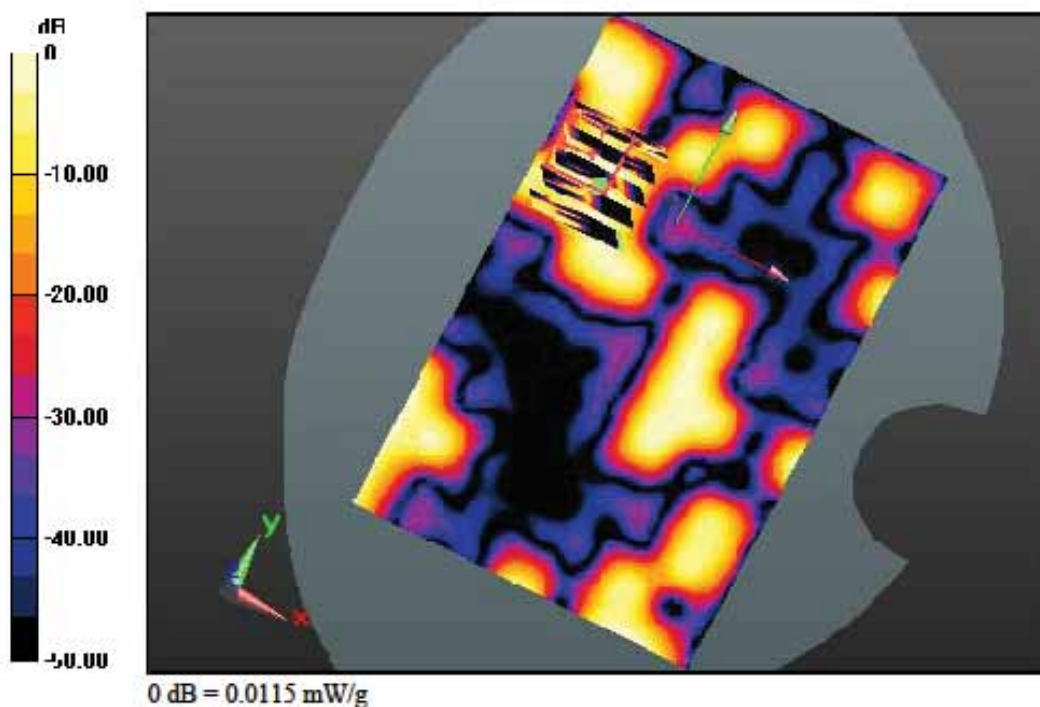
DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(6.97, 6.97, 6.97); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335
Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679
Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-09-12; Ambient Temp: 22.1; Tissue Temp: 22.2

Touch from Body, Front, 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 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.024 mW/g
SAR(1 g) = 0.00407 mW/g; SAR(10 g) = 0.000629 mW/g



DIGITAL EMC CO., LTD**DUT: HM50; Type: Bar**

Communication System: W-LAN; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.005 \text{ mho/m}$; $\epsilon_r = 51.386$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3866; ConvF(6.97, 6.97, 6.97); Calibrated: 2012-06-20; ; Electronics: DAE4 Sn1335

Phantom: SAM with CRP_20120521; Type: SAM; Serial:1679

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6477)

Test Date: 2012-09-12; Ambient Temp: 22.1; Tissue Temp:22.2

Touch 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 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.016 mW/g

SAR(1 g) = 0.00214 mW/g; SAR(10 g) = 0.000274 mW/g

