

DIGITAL EMC CO., LTD

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:464

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 53.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520

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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

Dipole Validation

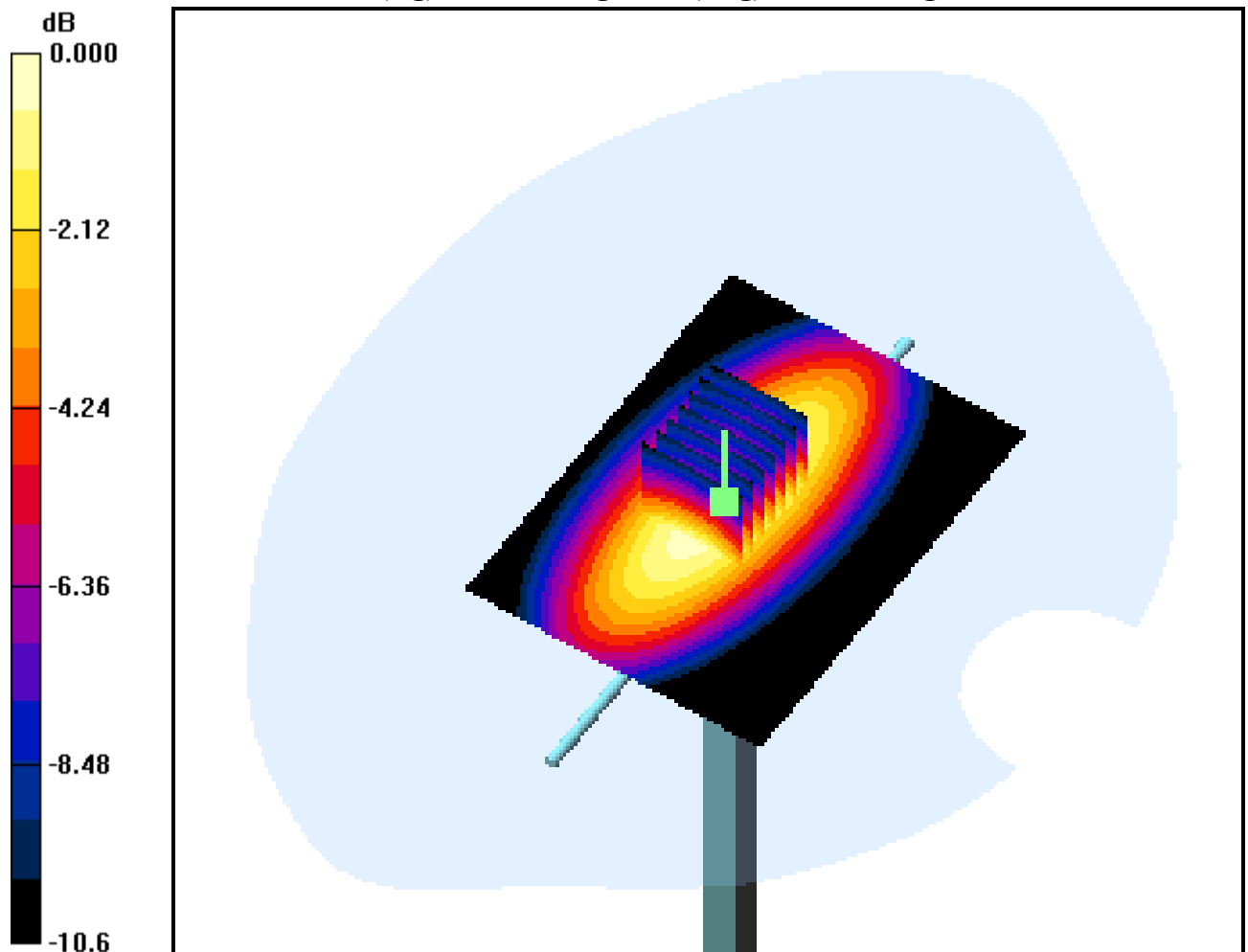
Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.139 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 2.28 mW/g; SAR(10 g) = 1.49 mW/g



0 dB = 2.79mW/g

DIGITAL EMC CO., LTD

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d029

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

Dipole Validation

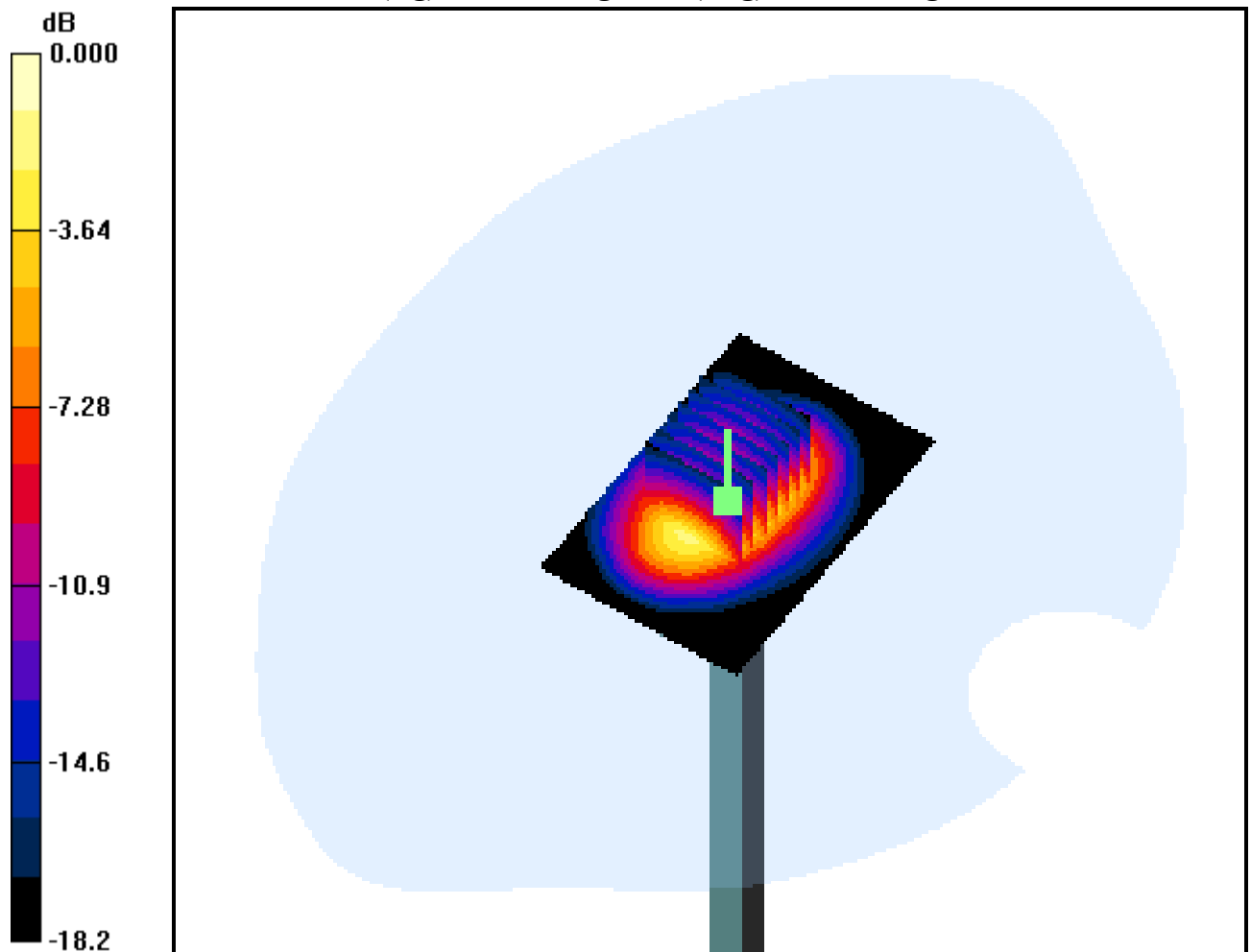
Area Scan (61x91x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.055 dB

Peak SAR (extrapolated) = 20.3 W/kg

SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.31 mW/g



0 dB = 14.5mW/g

DIGITAL EMC CO., LTD

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:726

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520

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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

Dipole Validation

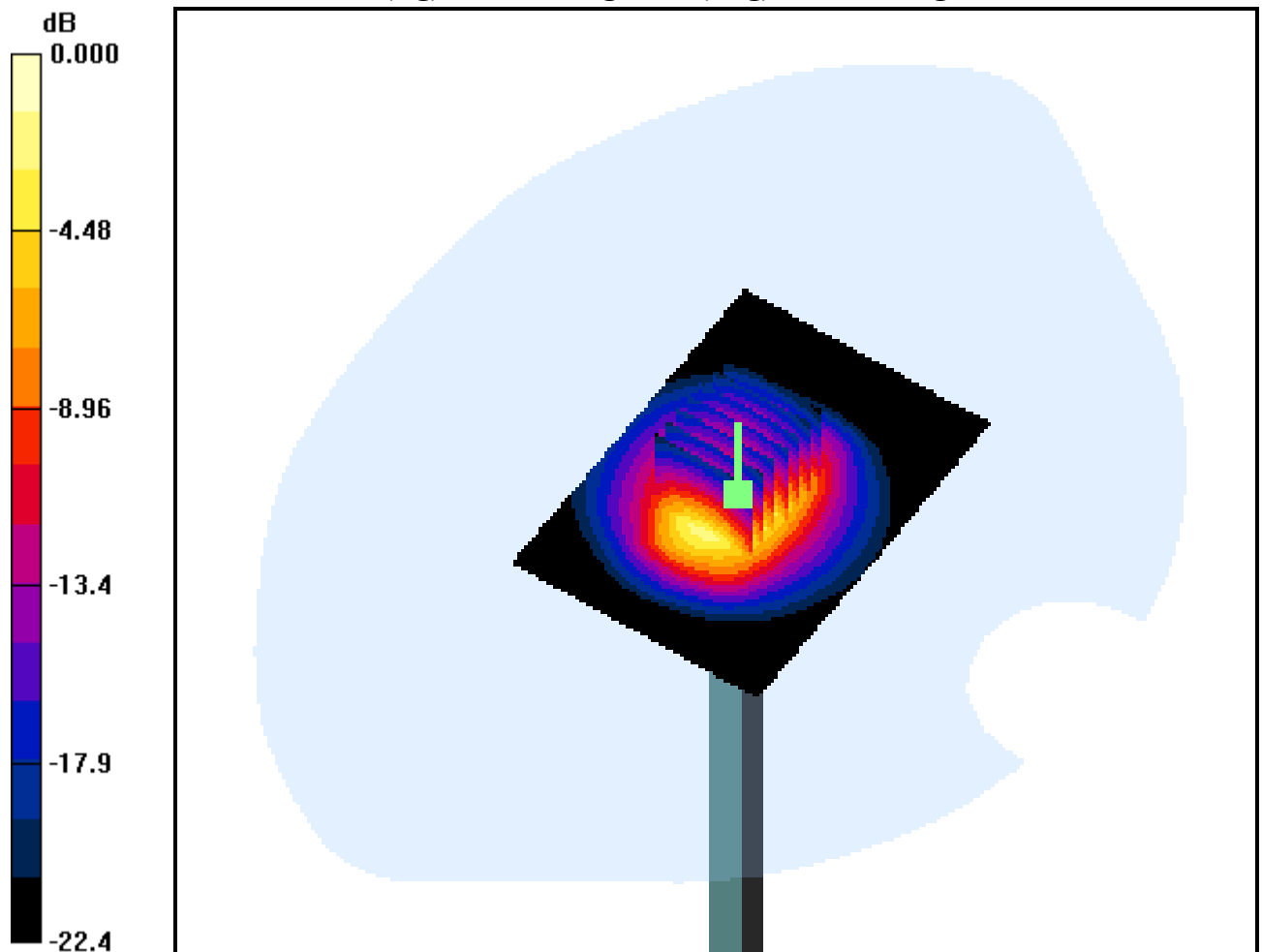
Area Scan (51x71x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Power Drift = -0.053 dB

Peak SAR (extrapolated) = 25.6 W/kg

SAR(1 g) = 12.2 mW/g; SAR(10 g) = 5.63 mW/g



0 dB = 17.4mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.667$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Top, CDMA Cellular Ch. 384, Ant Internal

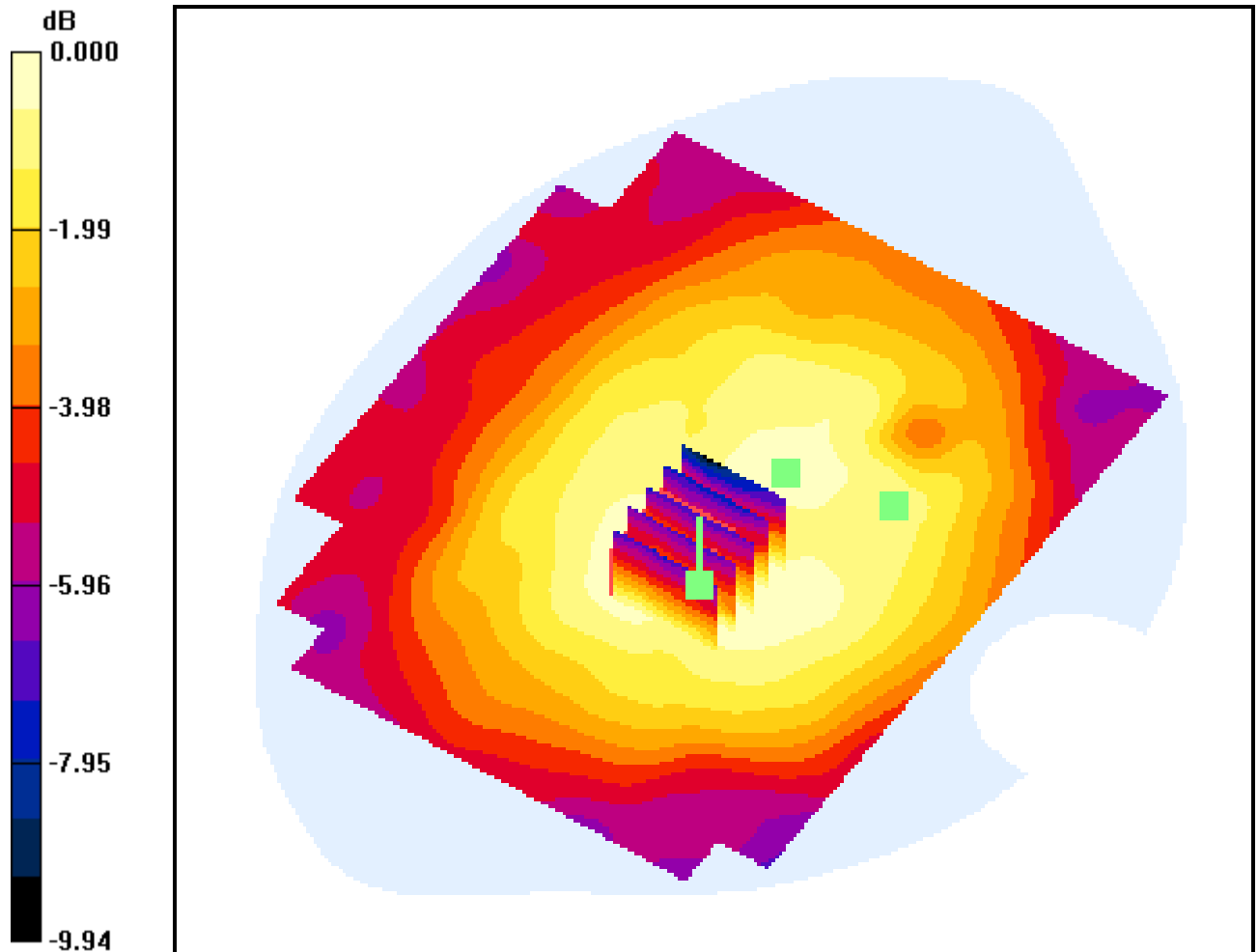
Area Scan (111x131x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.193 dB

Peak SAR (extrapolated) = 0.048 W/kg

SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.018 mW/g



DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.667$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Top, CDMA Cellular Ch. 384, Ant Internal

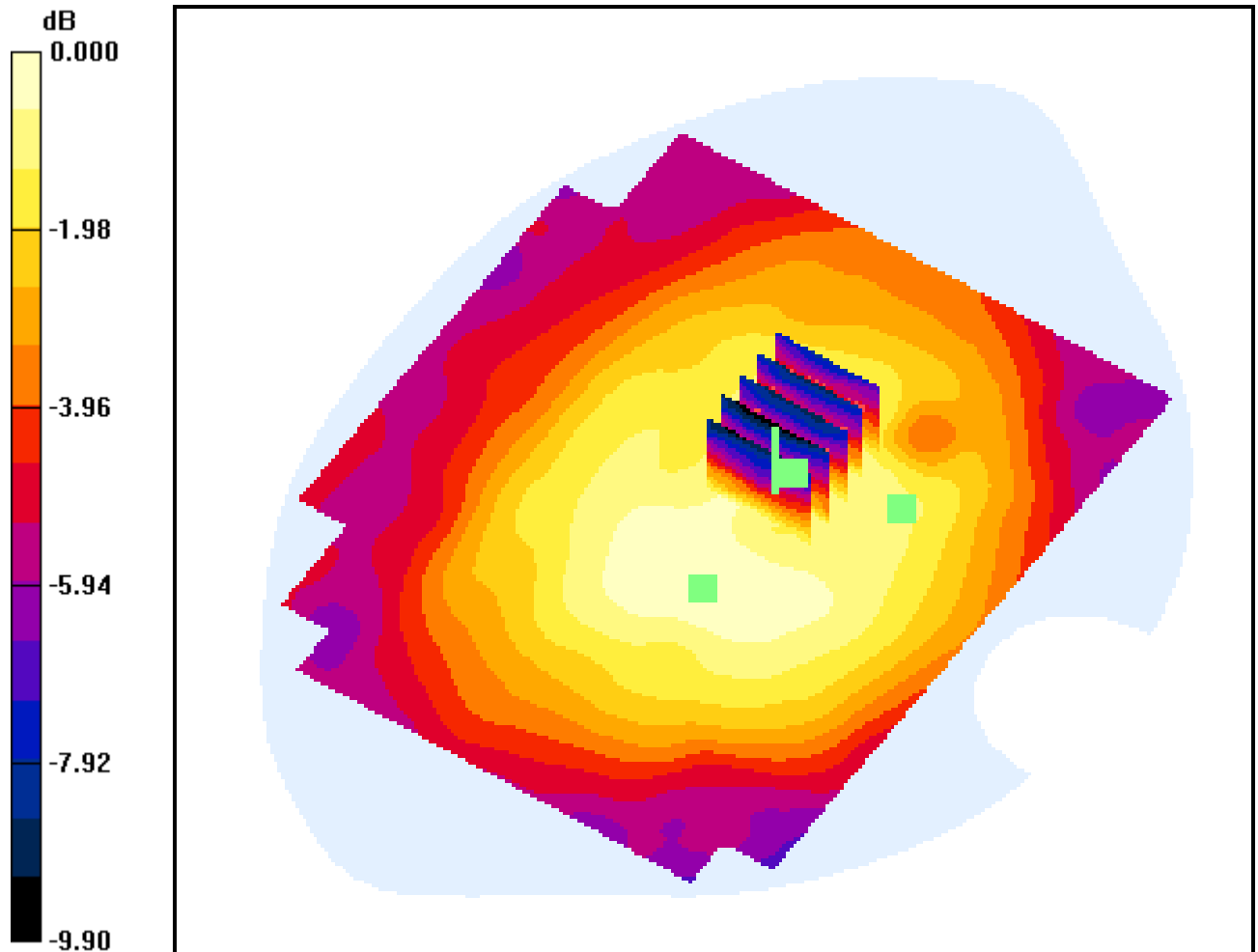
Area Scan (111x131x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.193 dB

Peak SAR (extrapolated) = 0.035 W/kg

SAR(1 g) = 0.022 mW/g; SAR(10 g) = 0.015 mW/g



0 dB = 0.029mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.667$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Top, CDMA Cellular Ch. 384, Ant Internal

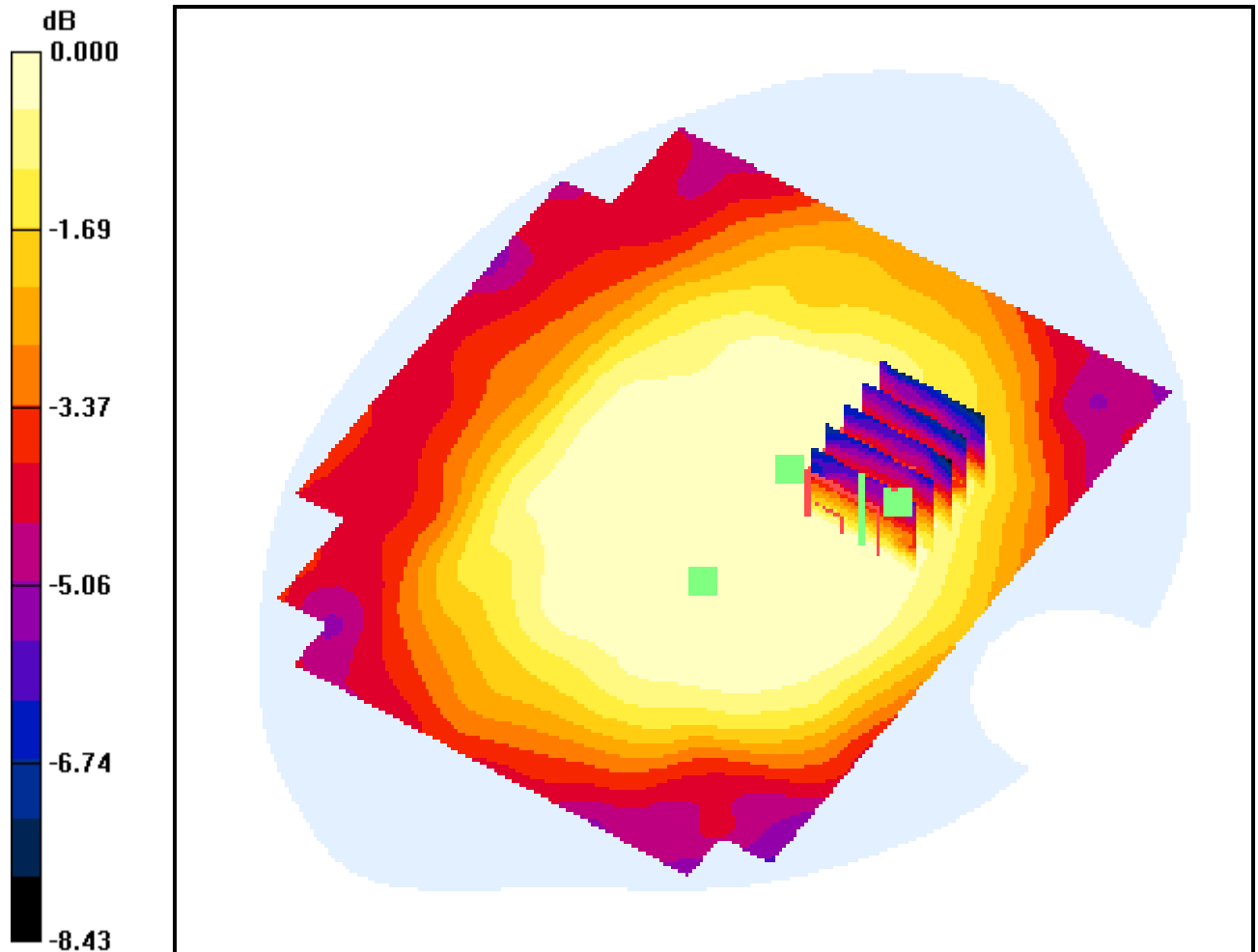
Area Scan (111x131x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 2: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.193 dB

Peak SAR (extrapolated) = 0.032 W/kg

SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.015 mW/g



0 dB = 0.022mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.667$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Bottom, CDMA Cellular Ch. 384, Ant Internal

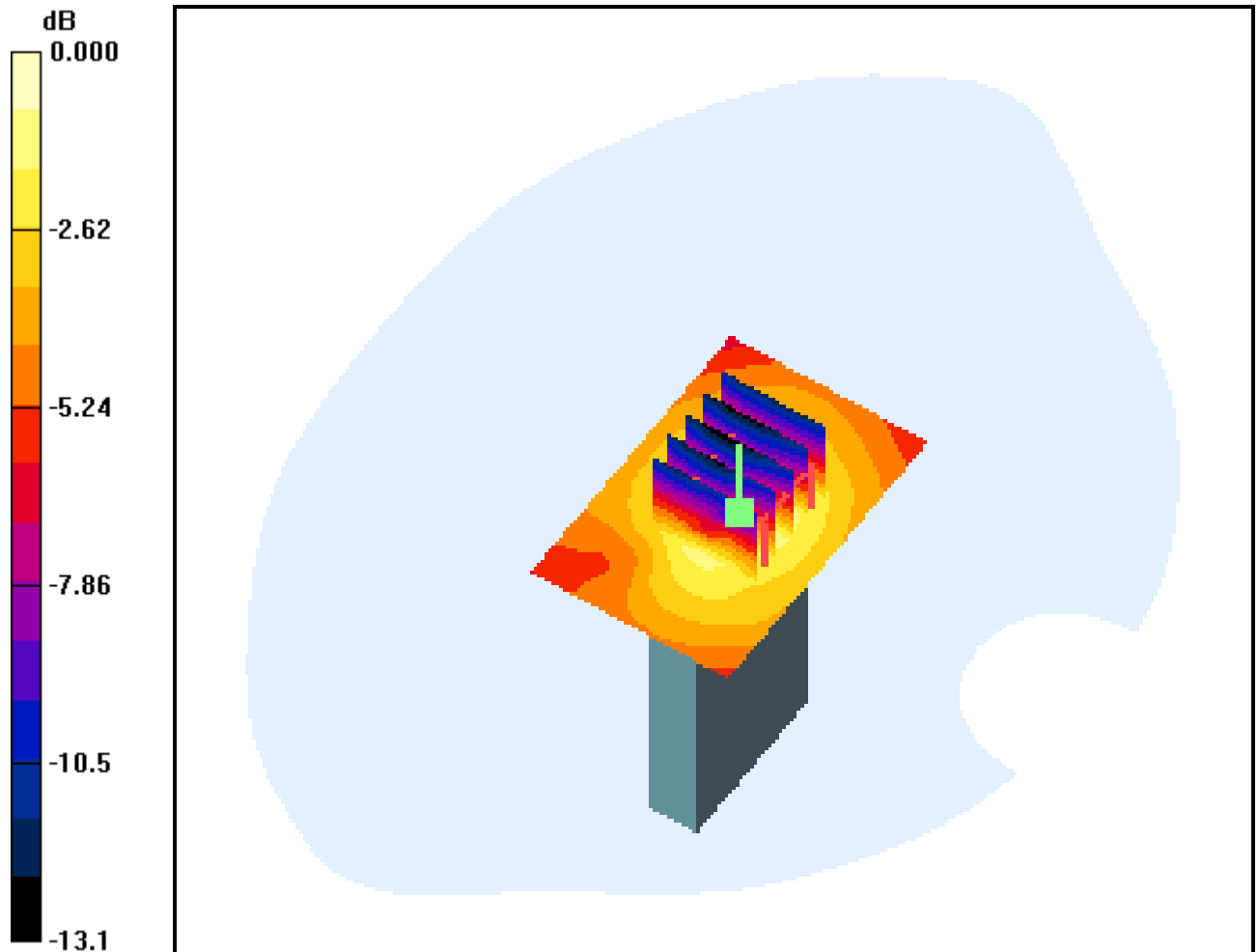
Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.341 dB

Peak SAR (extrapolated) = 0.170 W/kg

SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.054 mW/g



0 dB = 0.122mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.667$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Horizontal Up, CDMA Cellular Ch. 384, Ant Internal

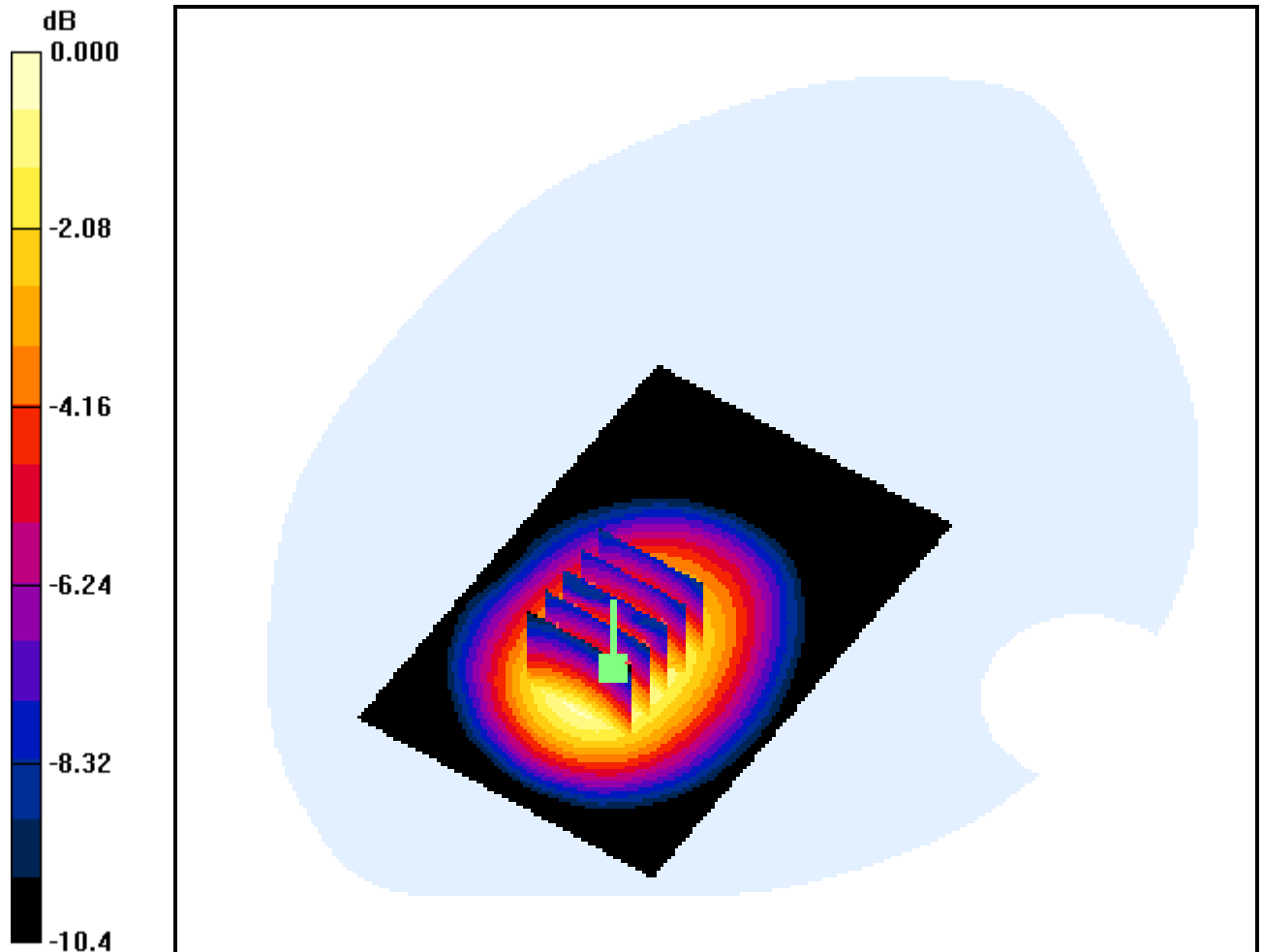
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.045 dB

Peak SAR (extrapolated) = 0.797 W/kg

SAR(1 g) = 0.560 mW/g; SAR(10 g) = 0.392 mW/g



0 dB = 0.657mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 824.7 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.944$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Horizontal Down, CDMA Cellular Ch. 1013, Ant Internal

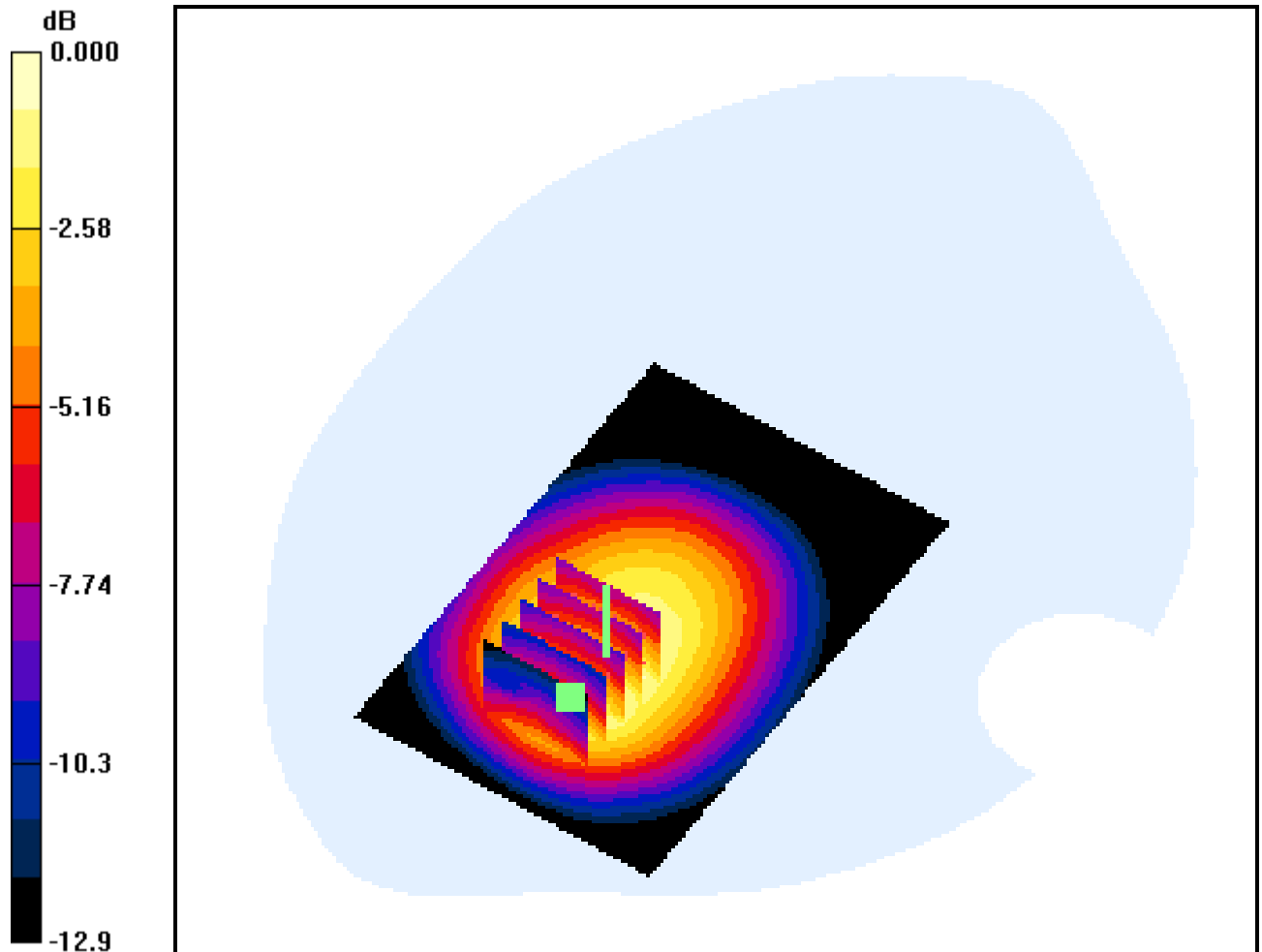
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.228 dB

Peak SAR (extrapolated) = 0.683 W/kg

SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.345 mW/g



0 dB = 0.594mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.667$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Horizontal Down, CDMA Cellular Ch. 384, Ant Internal

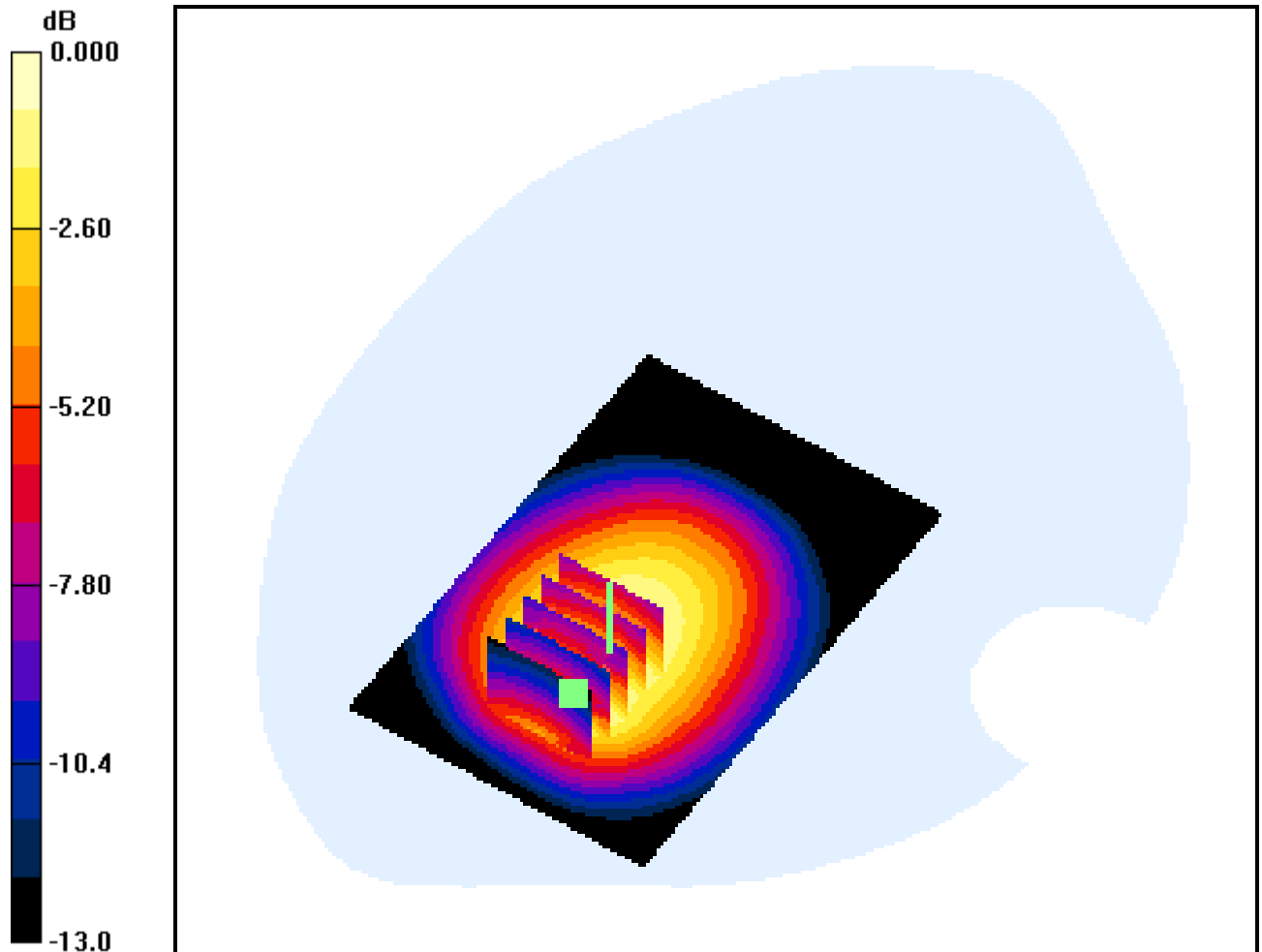
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.765 W/kg

SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.394 mW/g



0 dB = 0.670mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 848.333$ MHz; $\sigma = 0.964$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Horizontal Down, CDMA Cellular Ch. 777, Ant Internal

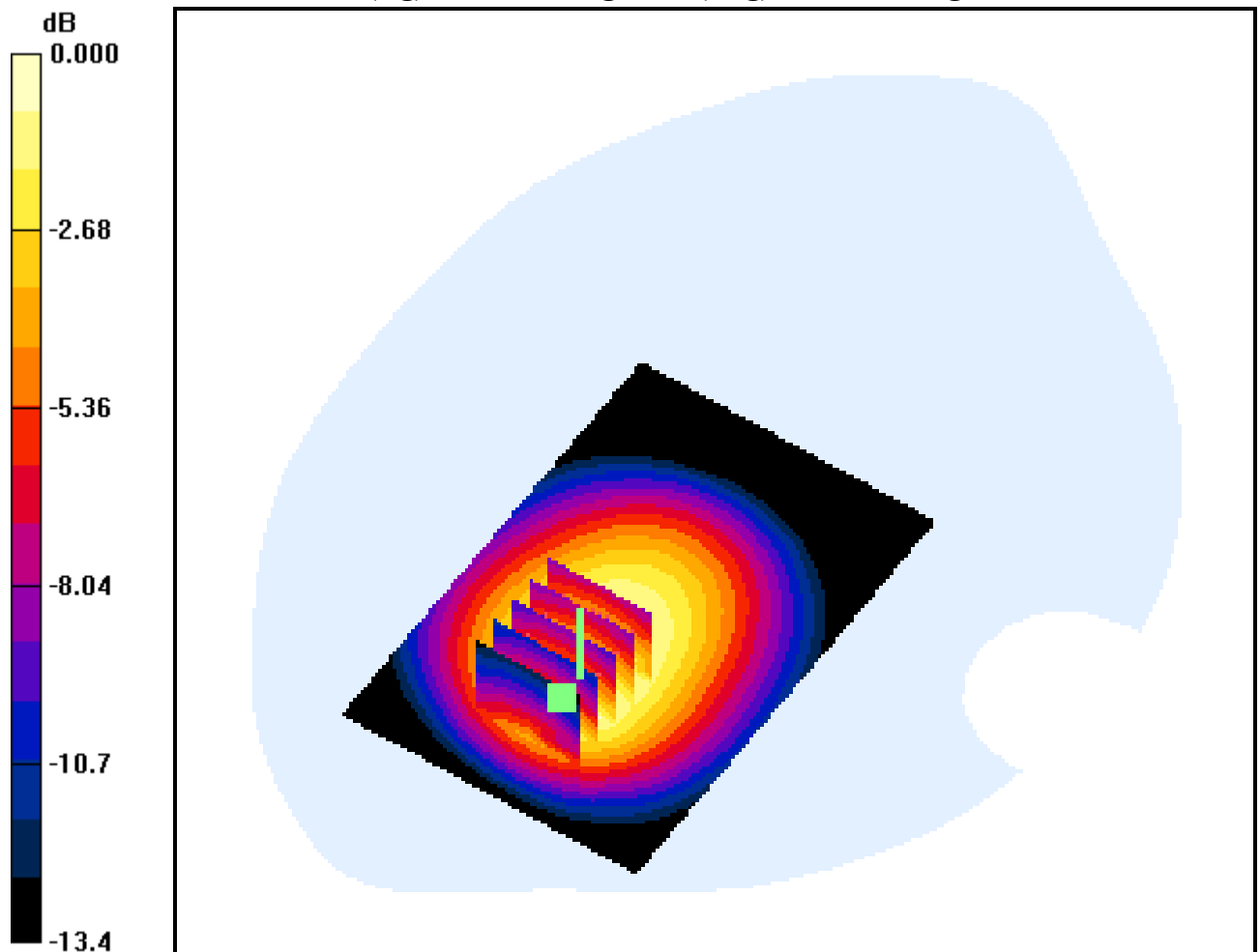
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.085 dB

Peak SAR (extrapolated) = 0.530 W/kg

SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.268 mW/g



0 dB = 0.457mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.667$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Vertical Front, CDMA Cellular Ch. 384, Ant Internal

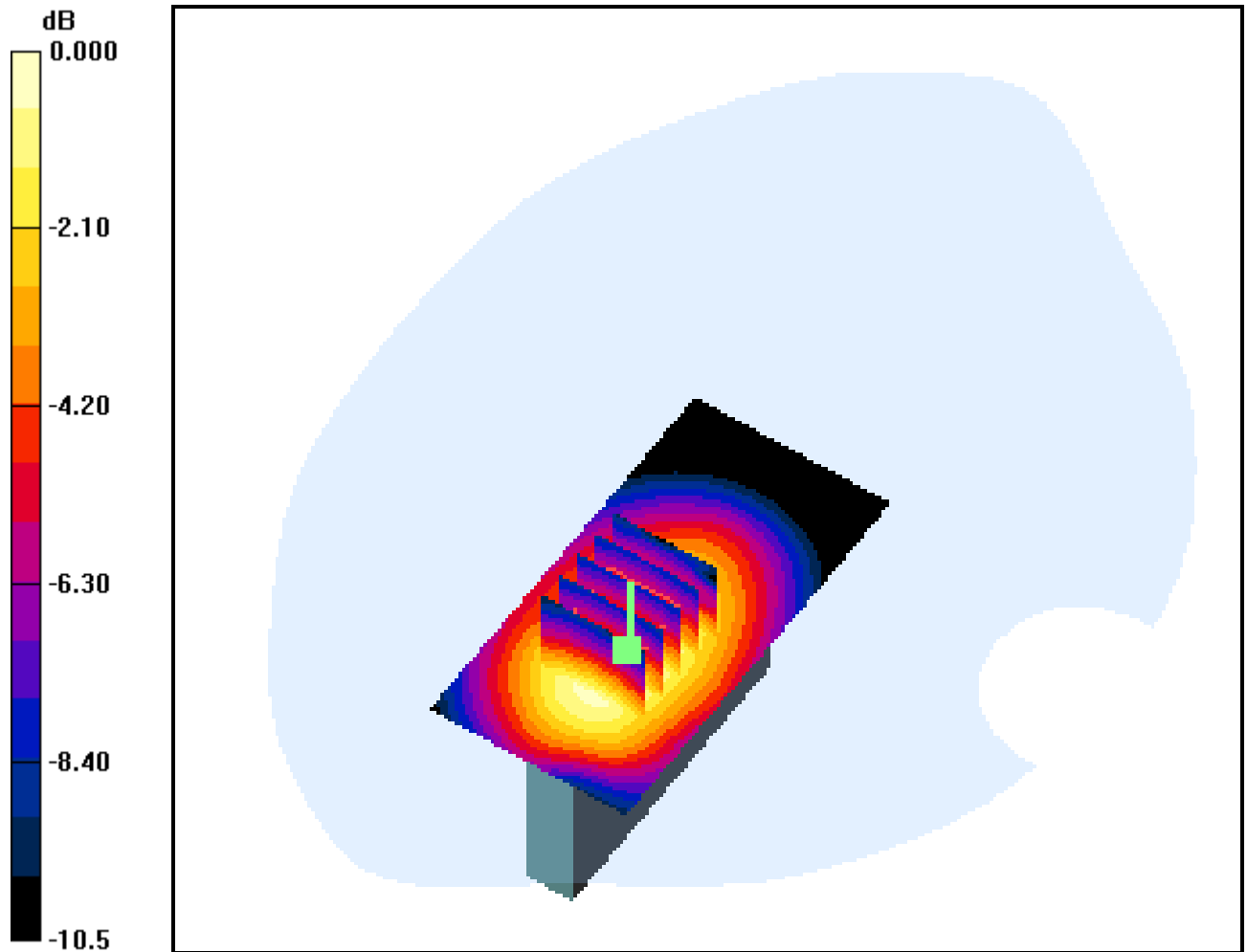
Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.075 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.197 mW/g



0 dB = 0.340mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.667$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Vertical Back, CDMA Cellular Ch. 384, Ant Internal

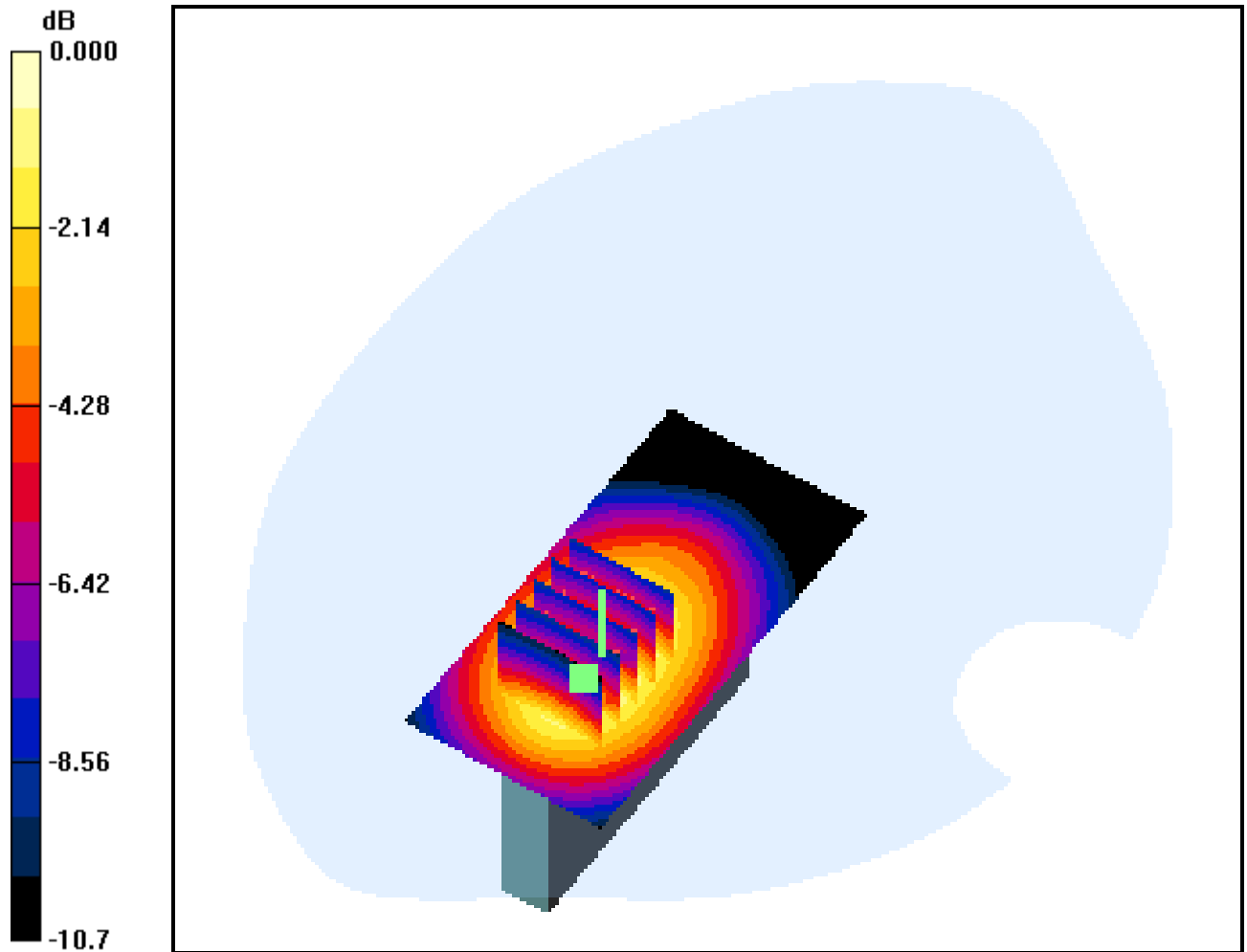
Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.107 dB

Peak SAR (extrapolated) = 0.530 W/kg

SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.195 mW/g



0 dB = 0.348mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Top, CDMA PCS Ch. 600, Ant Internal

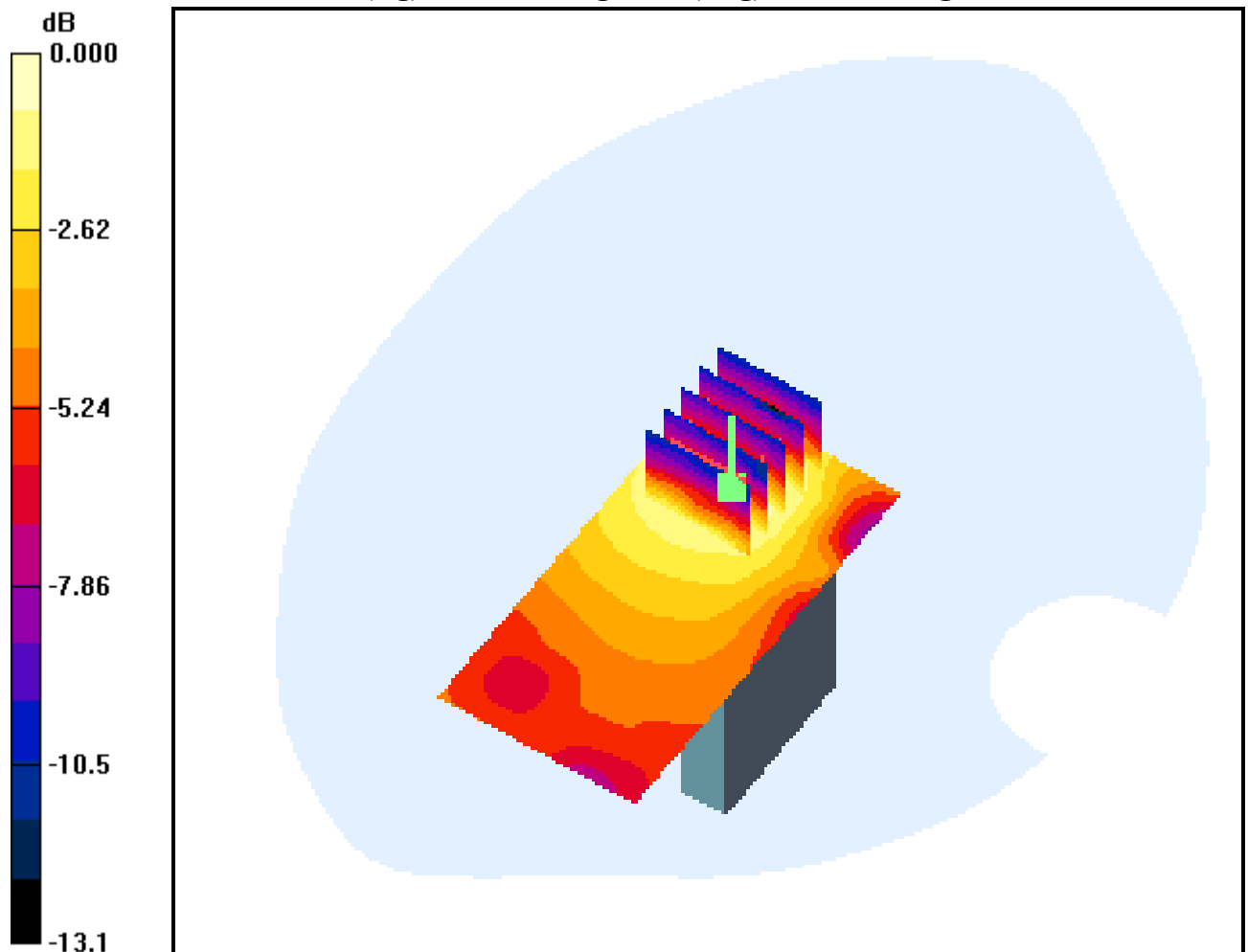
Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.145 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.103 mW/g



0 dB = 0.190mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Bottom, CDMA PCS Ch. 25, Ant Internal

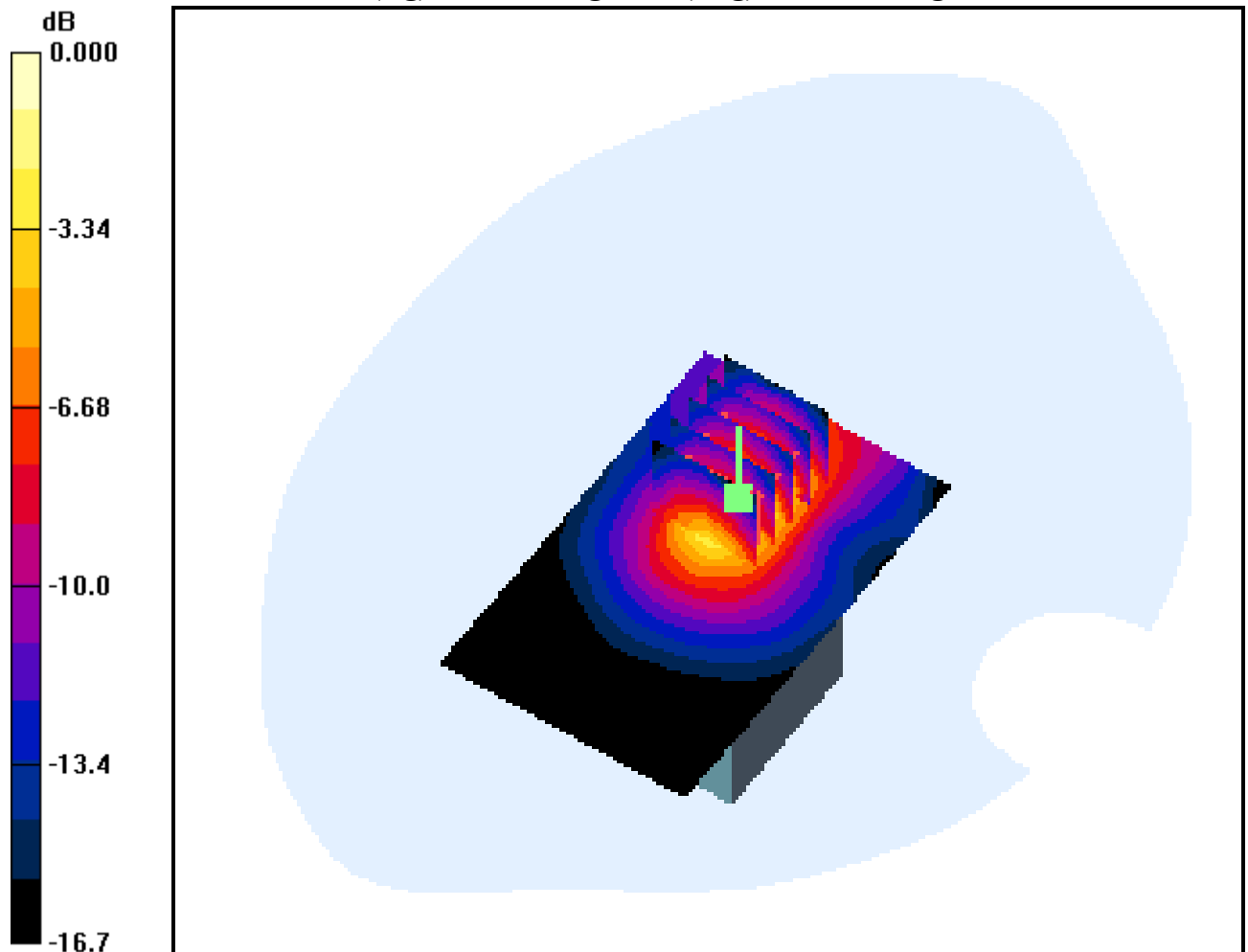
Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.072 dB

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.508 mW/g



0 dB = 1.32mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Bottom, CDMA PCS Ch. 600, Ant Internal

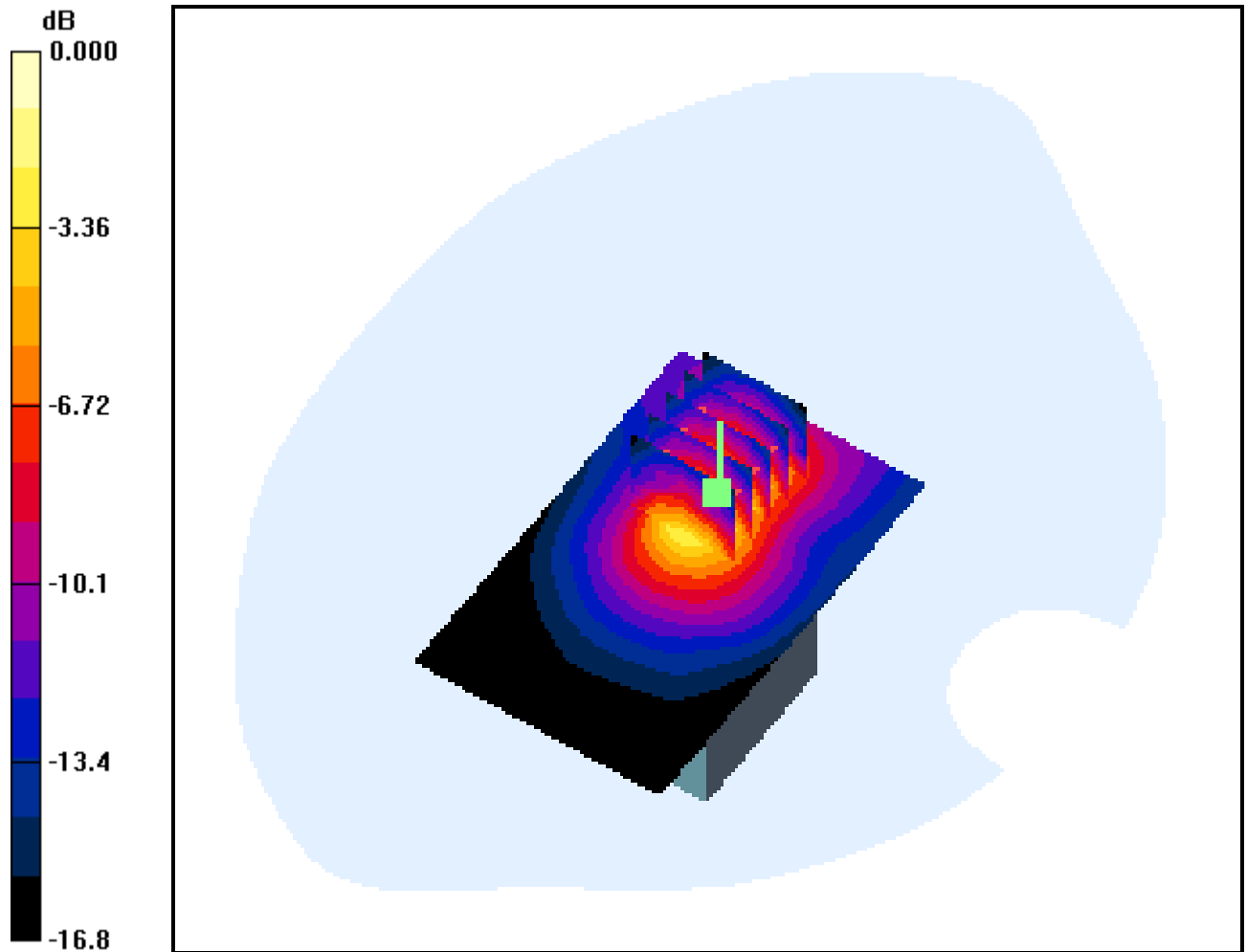
Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.106 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.521 mW/g



0 dB = 1.32mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Bottom, CDMA PCS Ch. 1175, Ant Internal

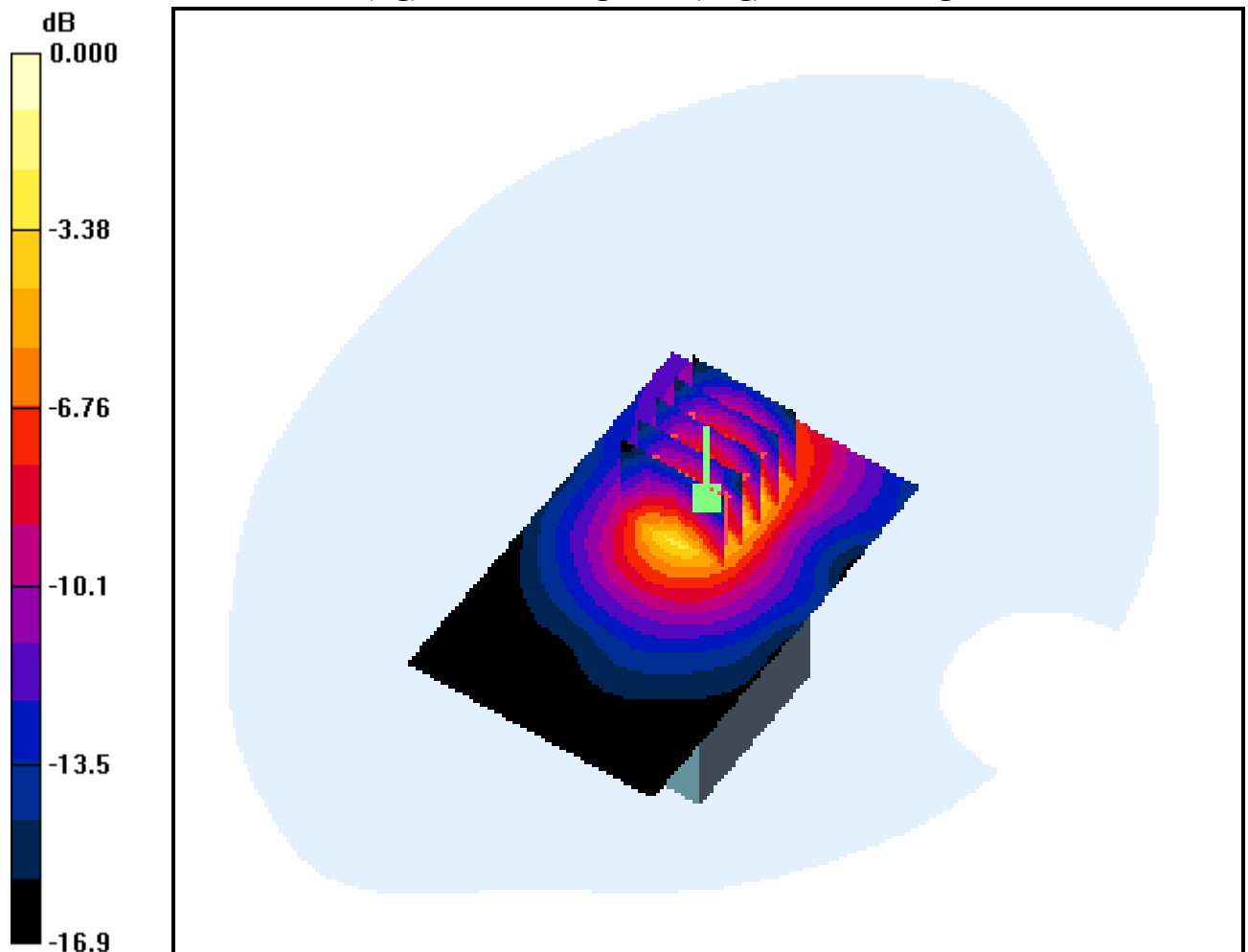
Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.120 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.668 mW/g; SAR(10 g) = 0.335 mW/g



0 dB = 0.870mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, CDMA PCS Ch. 25, Ant Internal

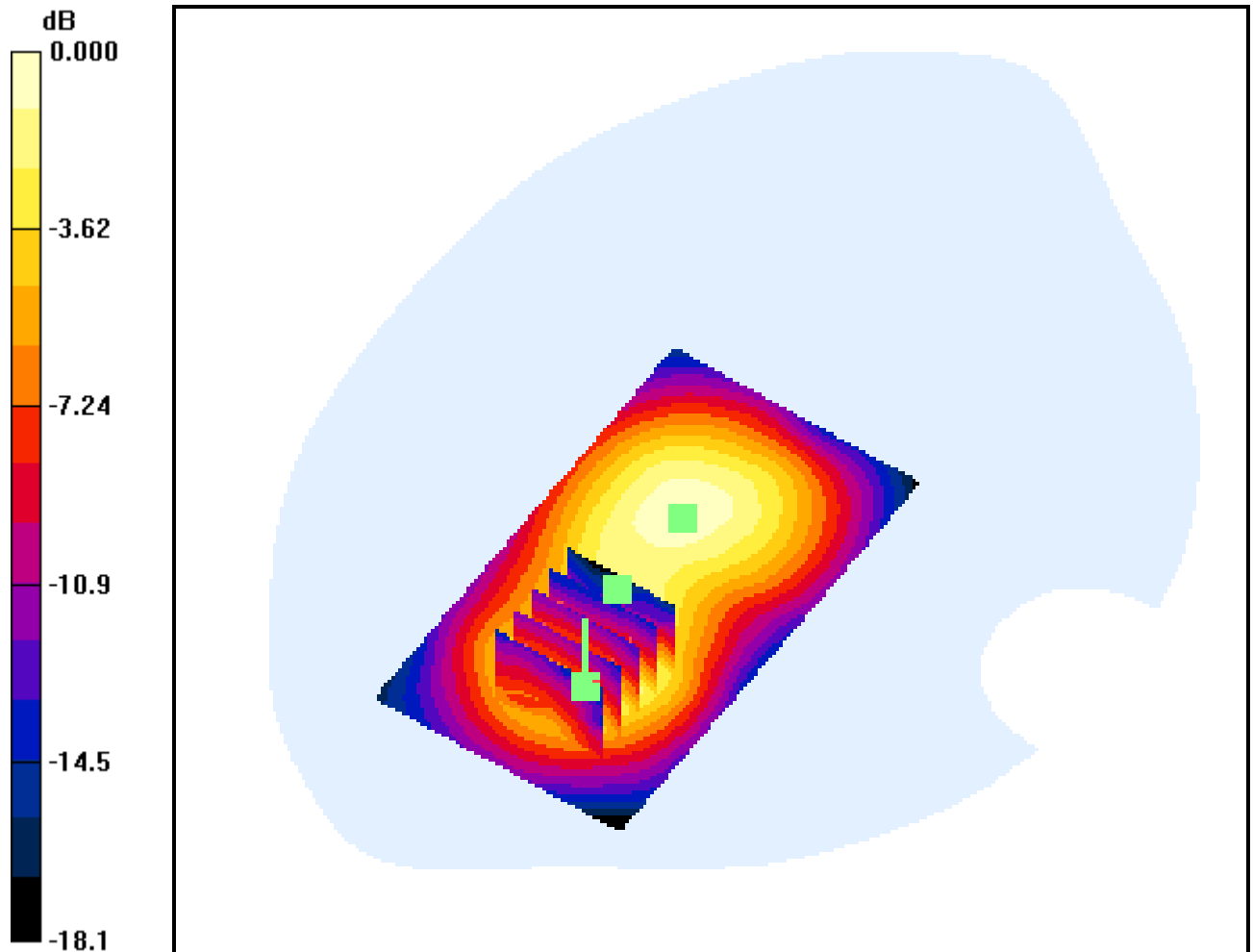
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.070 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.902 mW/g; SAR(10 g) = 0.488 mW/g



0 dB = 1.18mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, CDMA PCS Ch. 25, Ant Internal

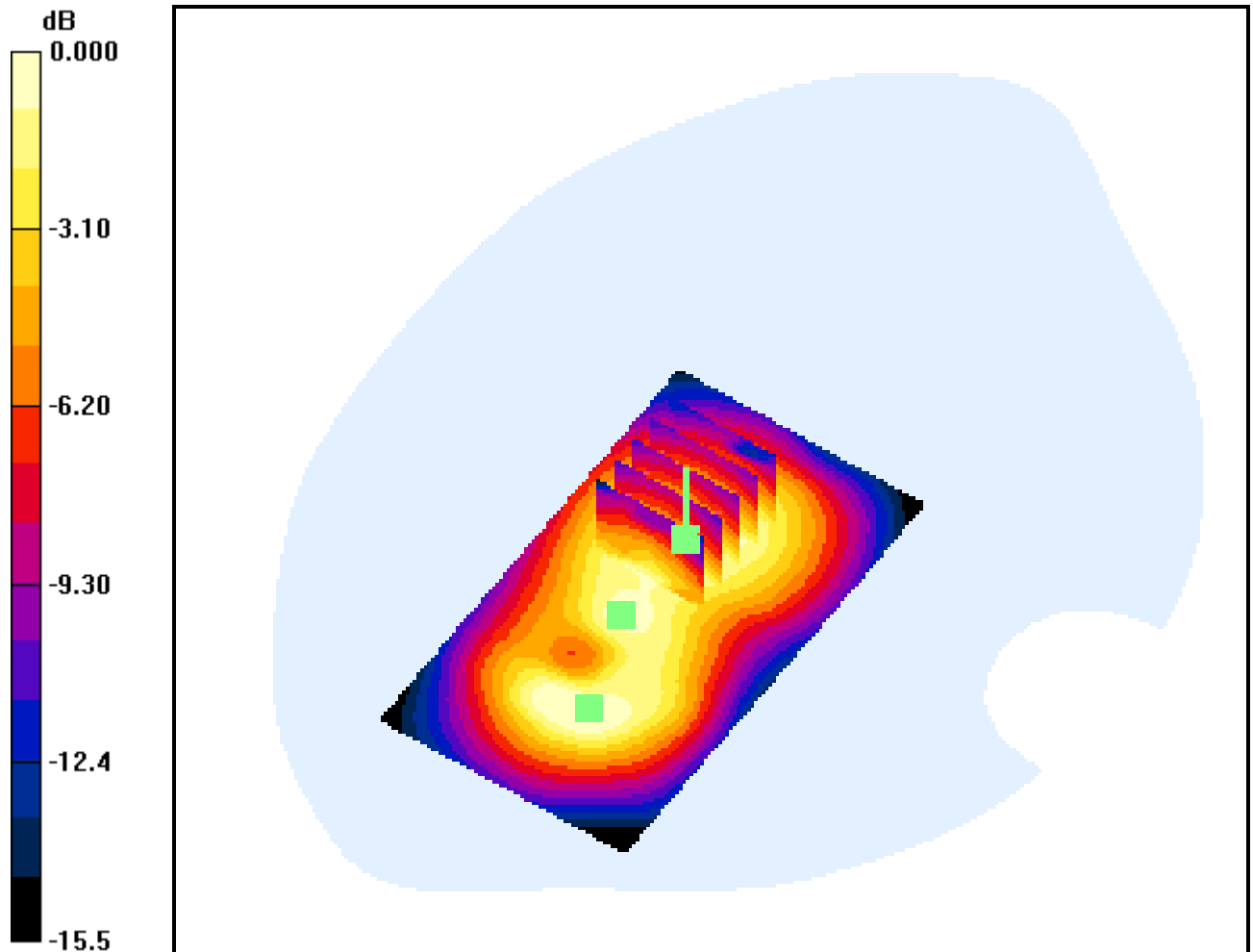
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.070 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.881 mW/g; SAR(10 g) = 0.579 mW/g



0 dB = 1.03mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, CDMA PCS Ch. 25, Ant Internal

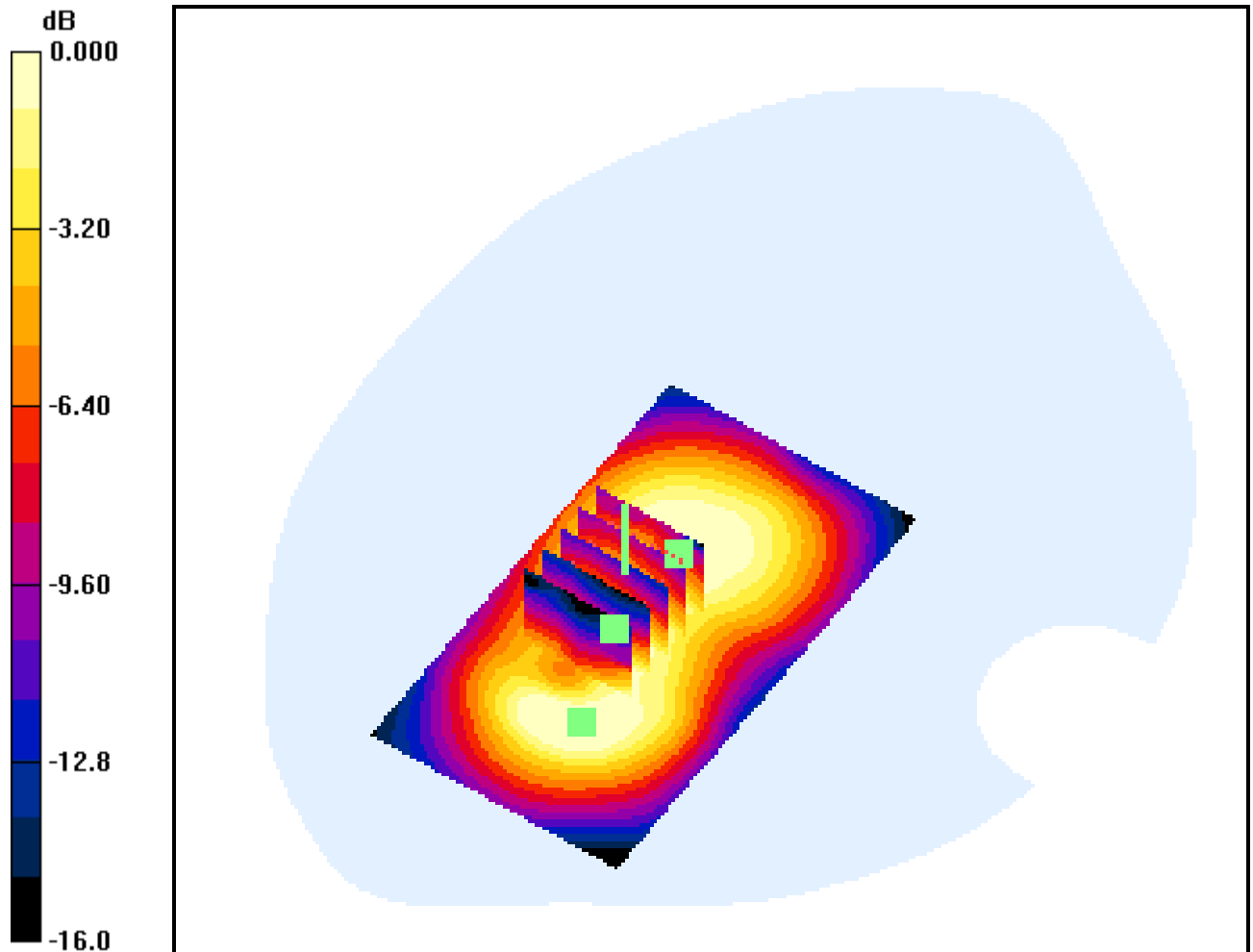
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 2: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.070 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.754 mW/g; SAR(10 g) = 0.487 mW/g



0 dB = 0.901mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, CDMA PCS Ch. 600, Ant Internal

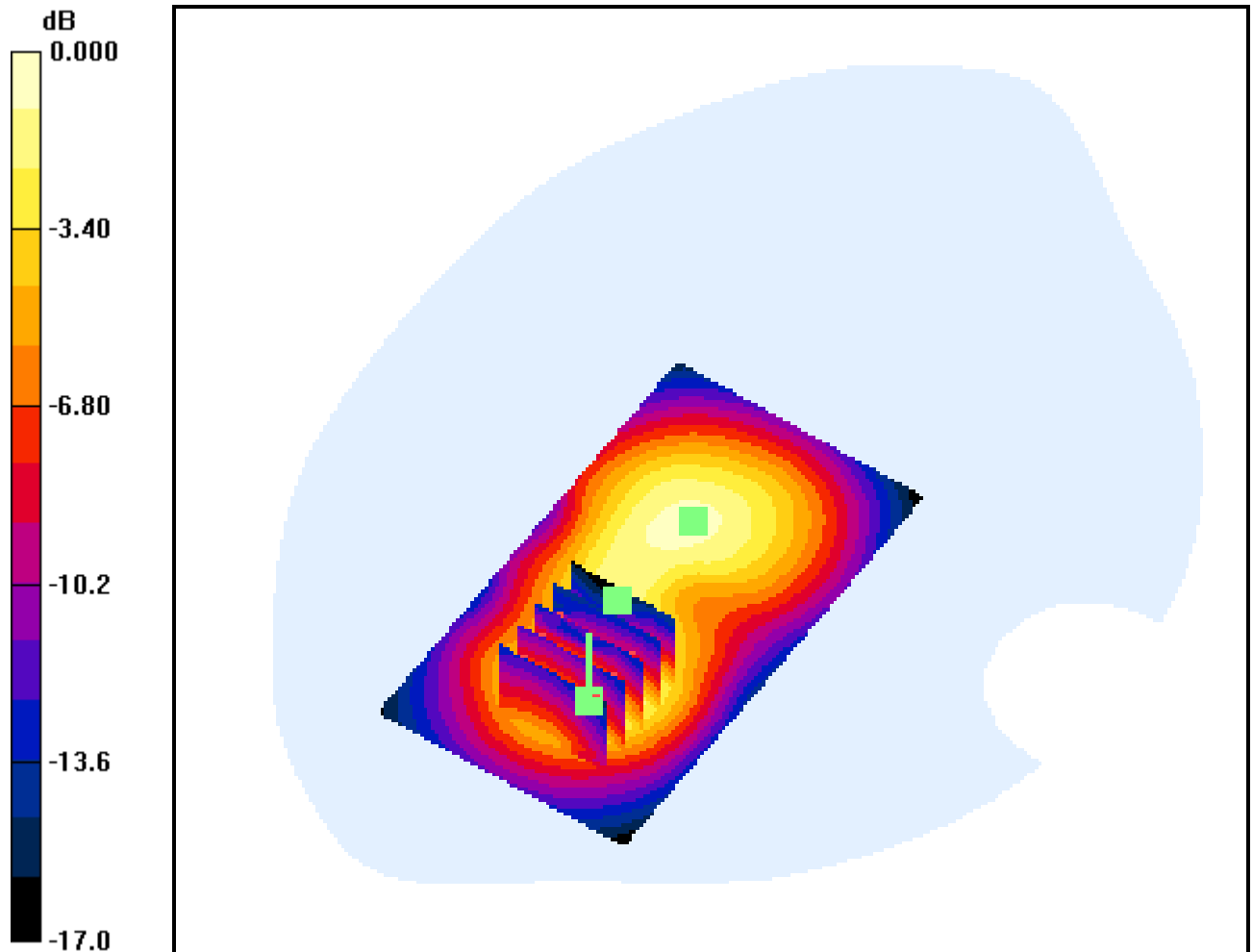
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.179 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.507 mW/g



0 dB = 1.22mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, CDMA PCS Ch. 600, Ant Internal

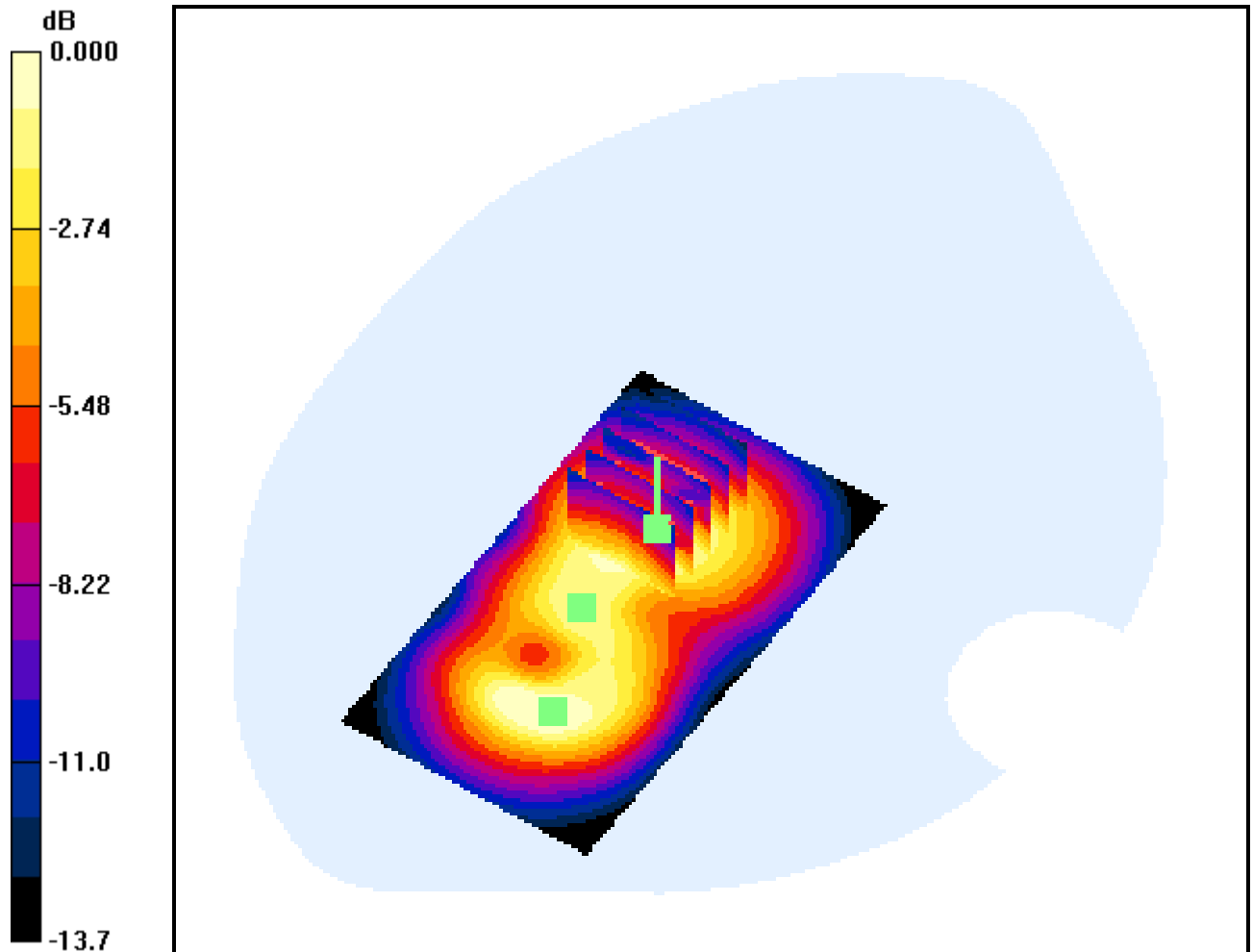
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = 0.179 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.555 mW/g



0 dB = 1.05mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, CDMA PCS Ch. 600, Ant Internal

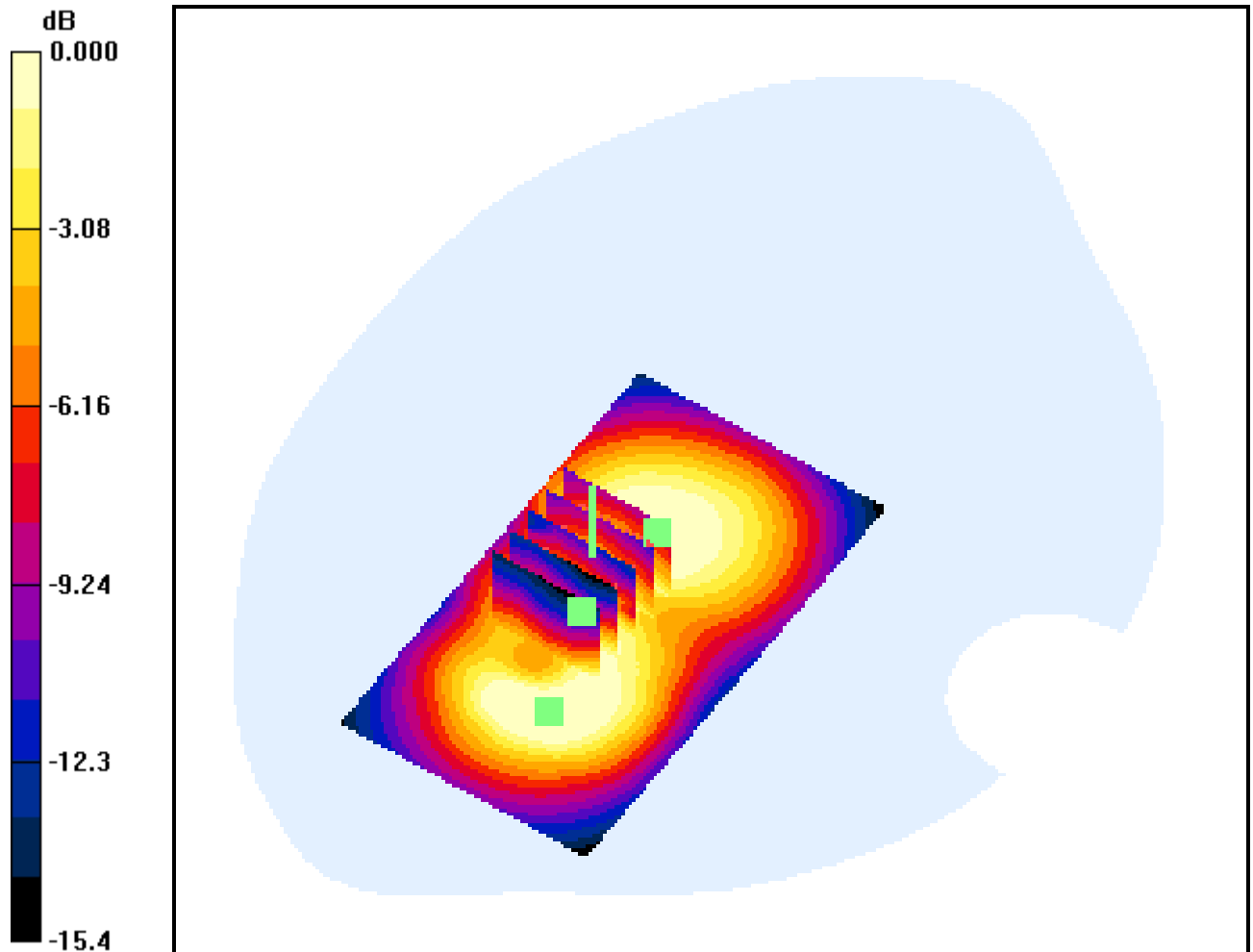
Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 2: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.179 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.693 mW/g; SAR(10 g) = 0.455 mW/g



0 dB = 0.836mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, CDMA PCS Ch. 1175, Ant Internal

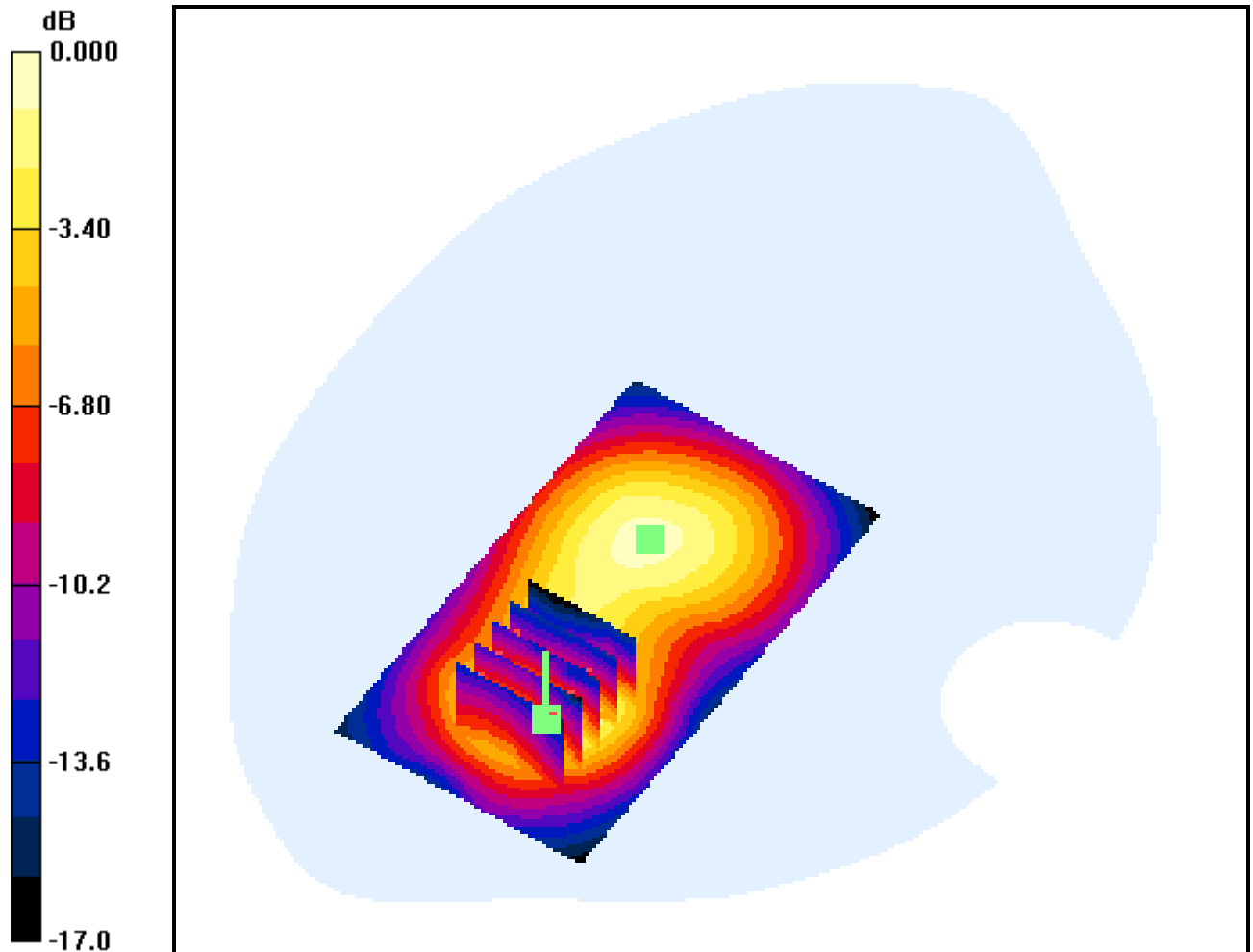
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.367 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.614 mW/g; SAR(10 g) = 0.329 mW/g



0 dB = 0.814mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, CDMA PCS Ch. 1175, Ant Internal

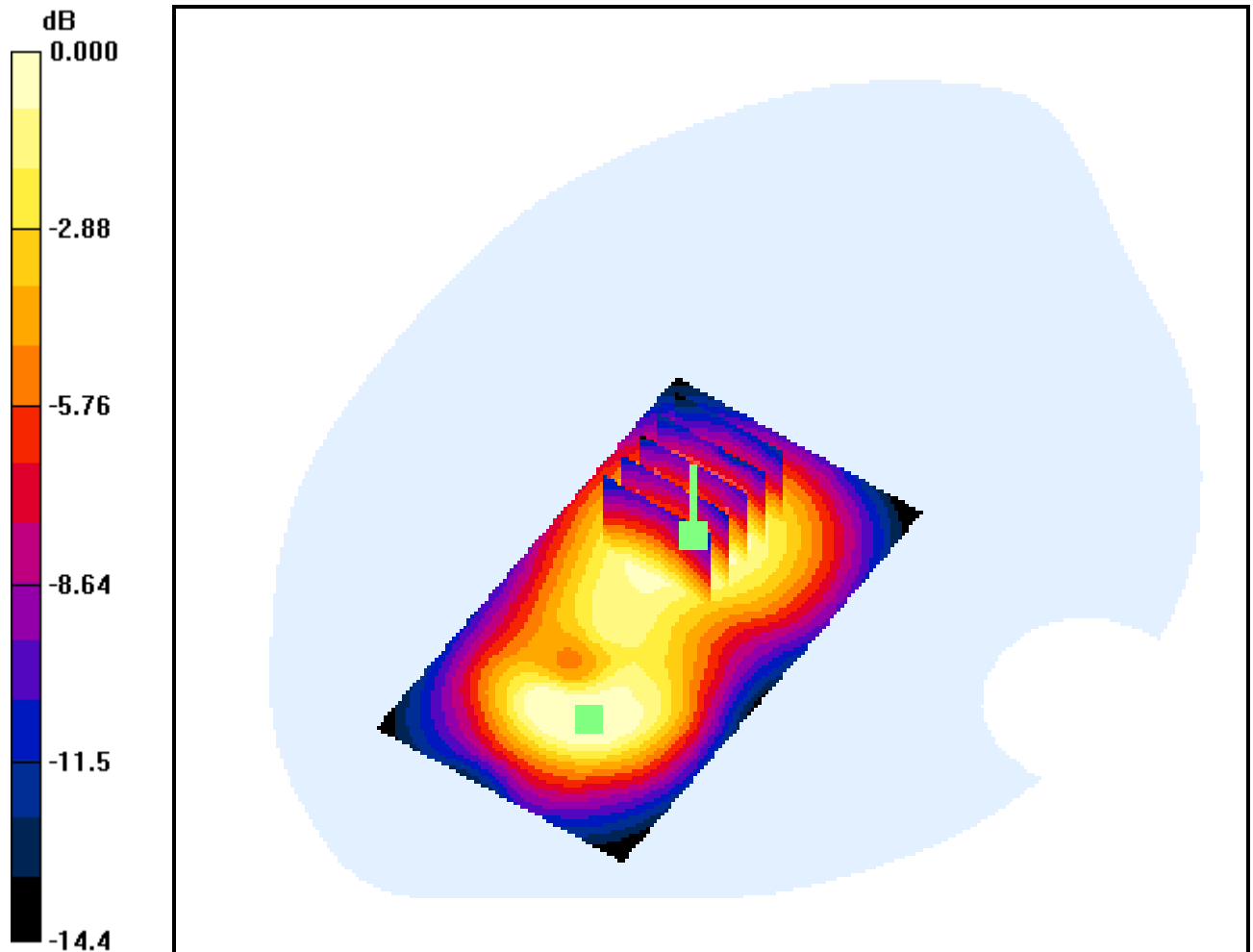
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.367 dB

Peak SAR (extrapolated) = 0.889 W/kg

SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.342 mW/g



0 dB = 0.641mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Down, CDMA PCS Ch. 25, Ant Internal

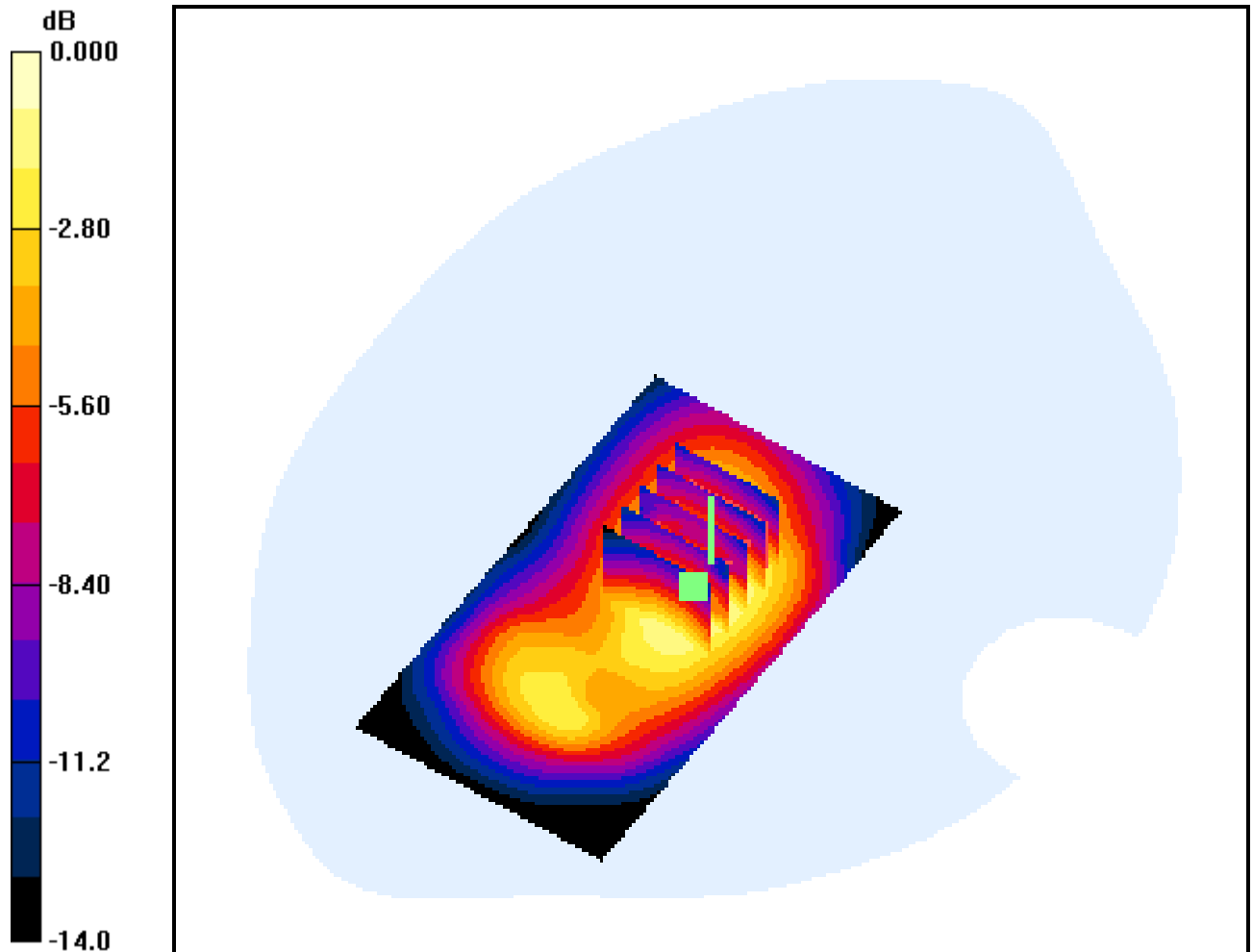
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.127 dB

Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.812 mW/g



0 dB = 1.57mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Down, CDMA PCS Ch. 600, Ant Internal

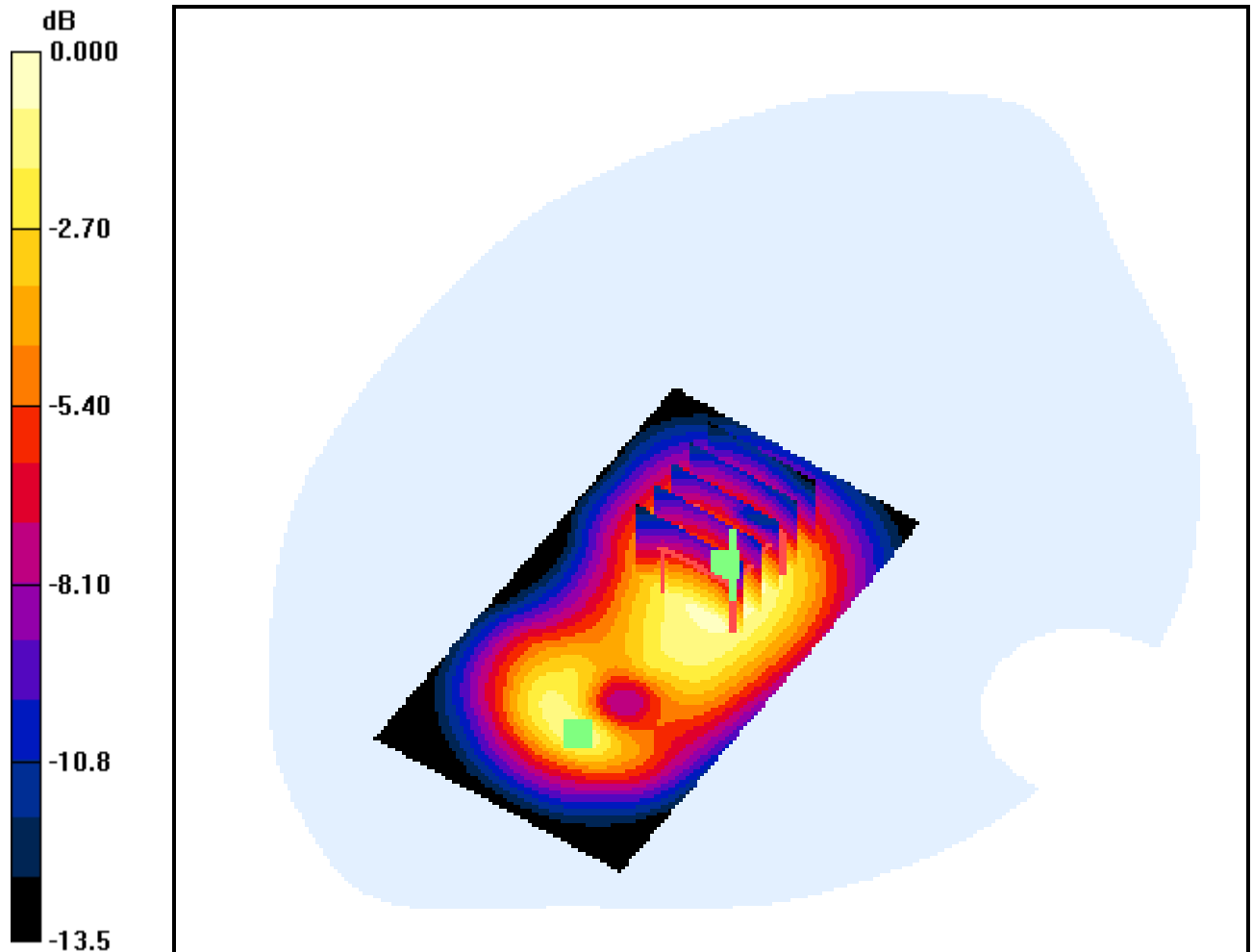
Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.233 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.806 mW/g



0 dB = 1.49mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Down, CDMA PCS Ch. 600, Ant Internal

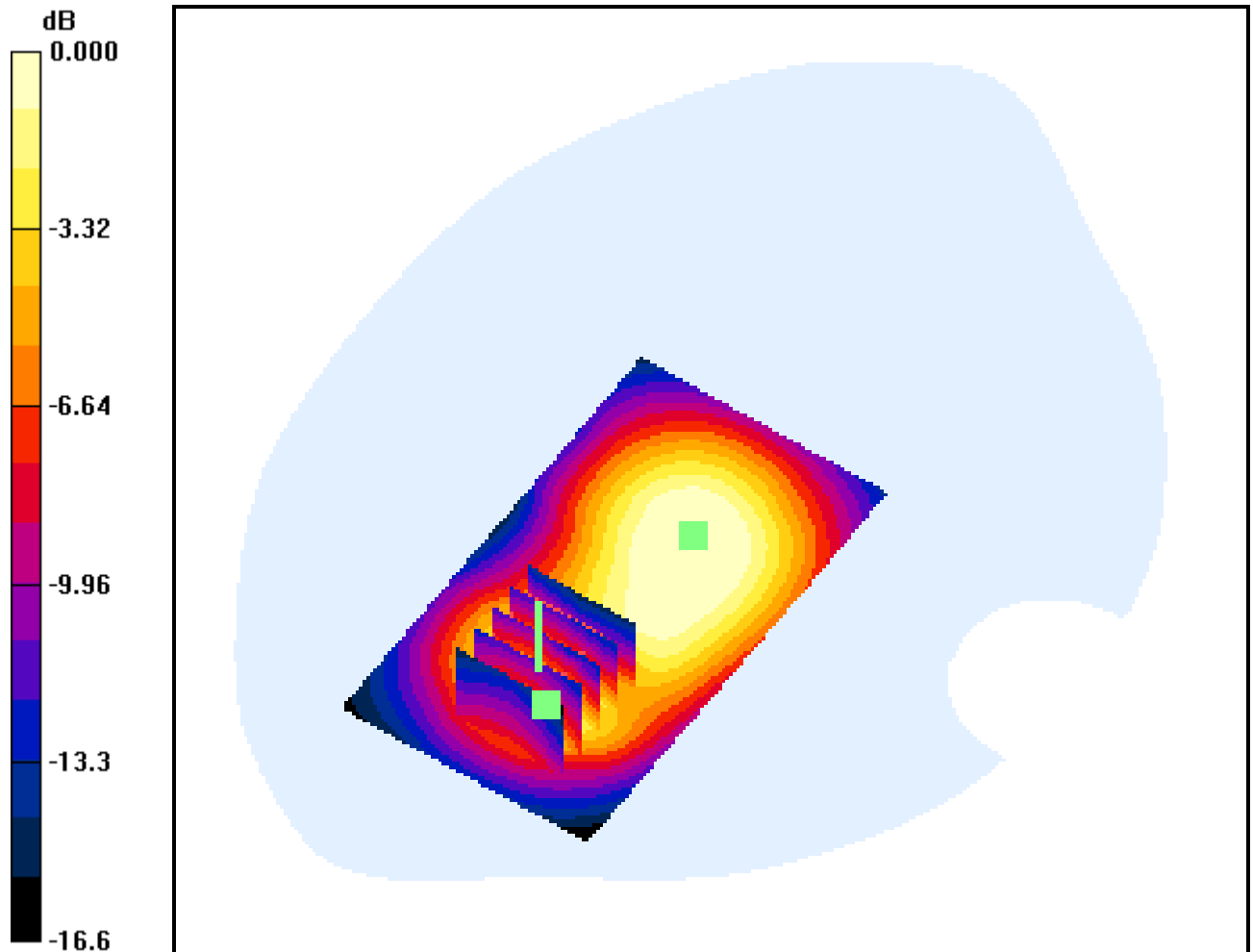
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Power Drift = -0.233 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.902 mW/g; SAR(10 g) = 0.531 mW/g



0 dB = 1.23mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Down, CDMA PCS Ch. 1175, Ant Internal

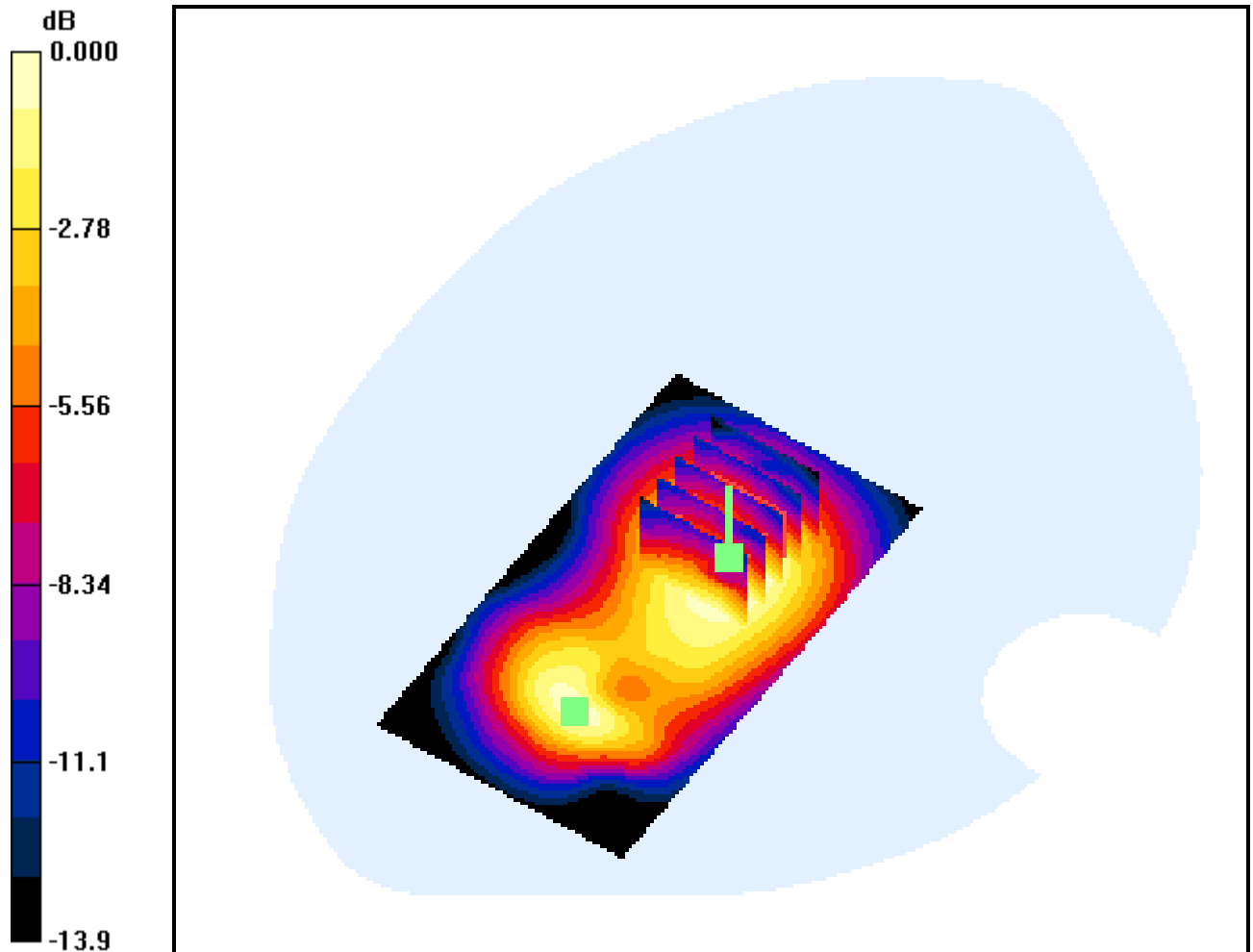
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.348 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.769 mW/g; SAR(10 g) = 0.497 mW/g



0 dB = 0.906mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1908.75 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Down, CDMA PCS Ch. 1175, Ant Internal

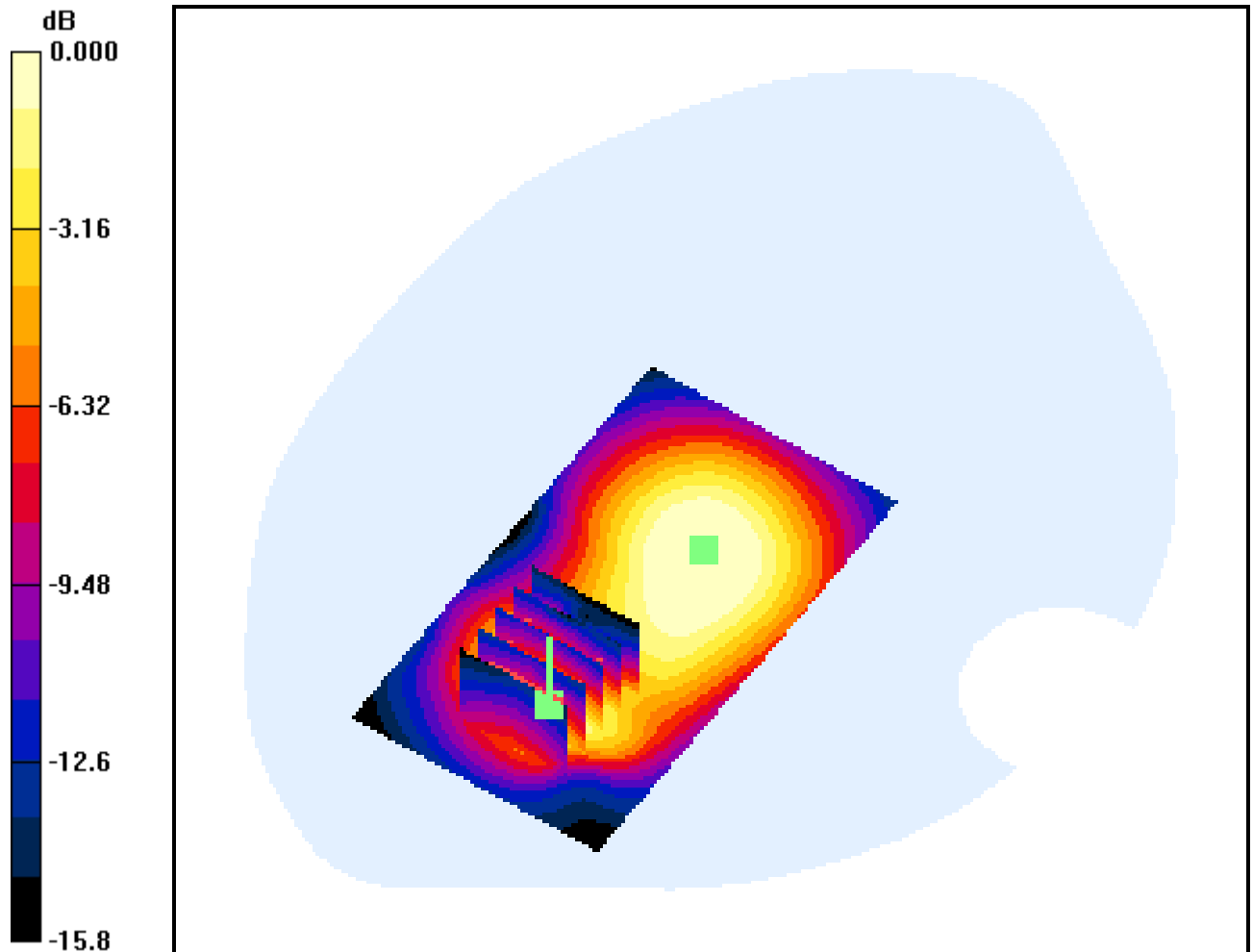
Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.348 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.618 mW/g; SAR(10 g) = 0.342 mW/g



0 dB = 0.791mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Vertical Front, CDMA PCS Ch. 25, Ant Internal

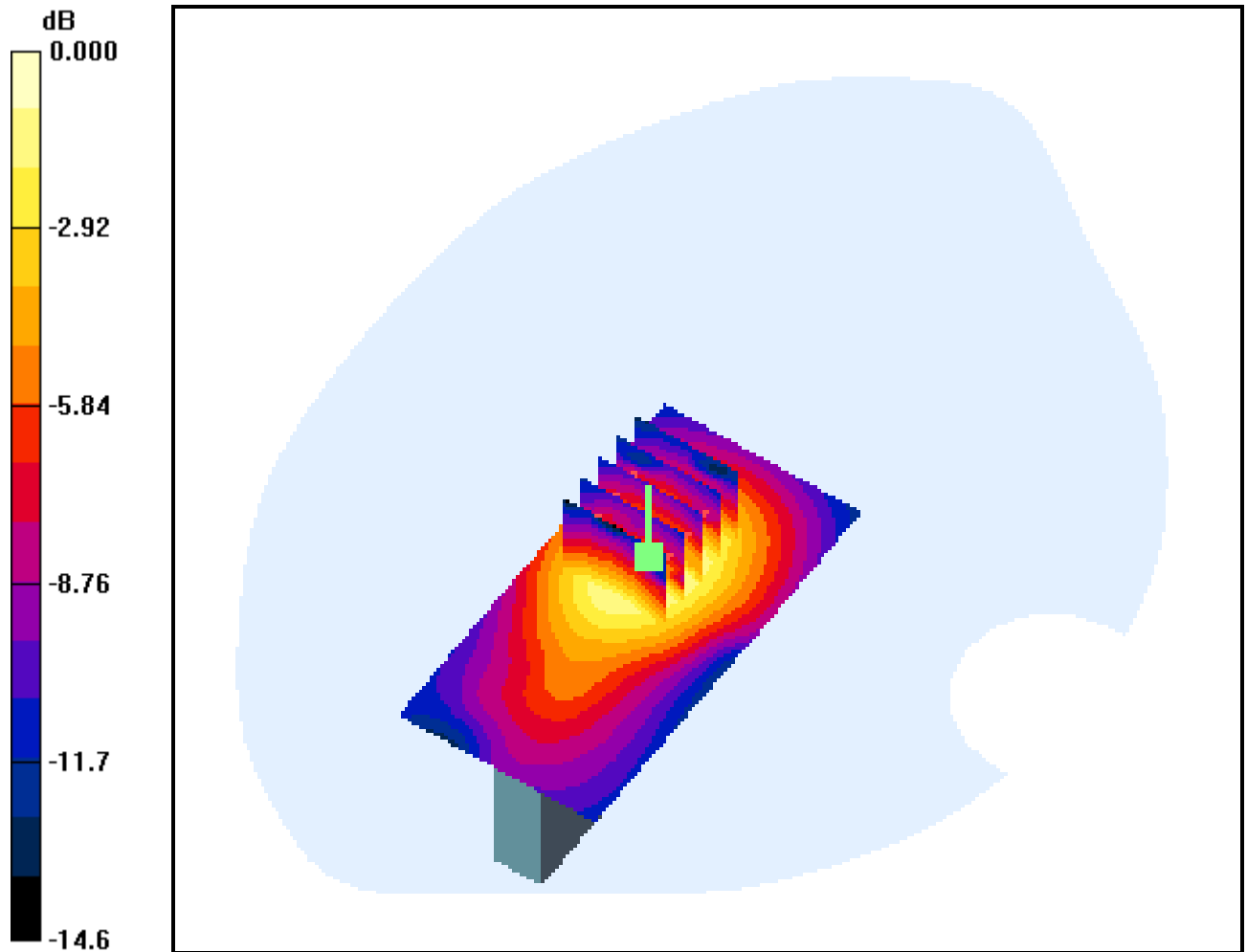
Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.058 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.793 mW/g; SAR(10 g) = 0.488 mW/g



0 dB = 0.981mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Vertical Front, CDMA PCS Ch. 600, Ant Internal

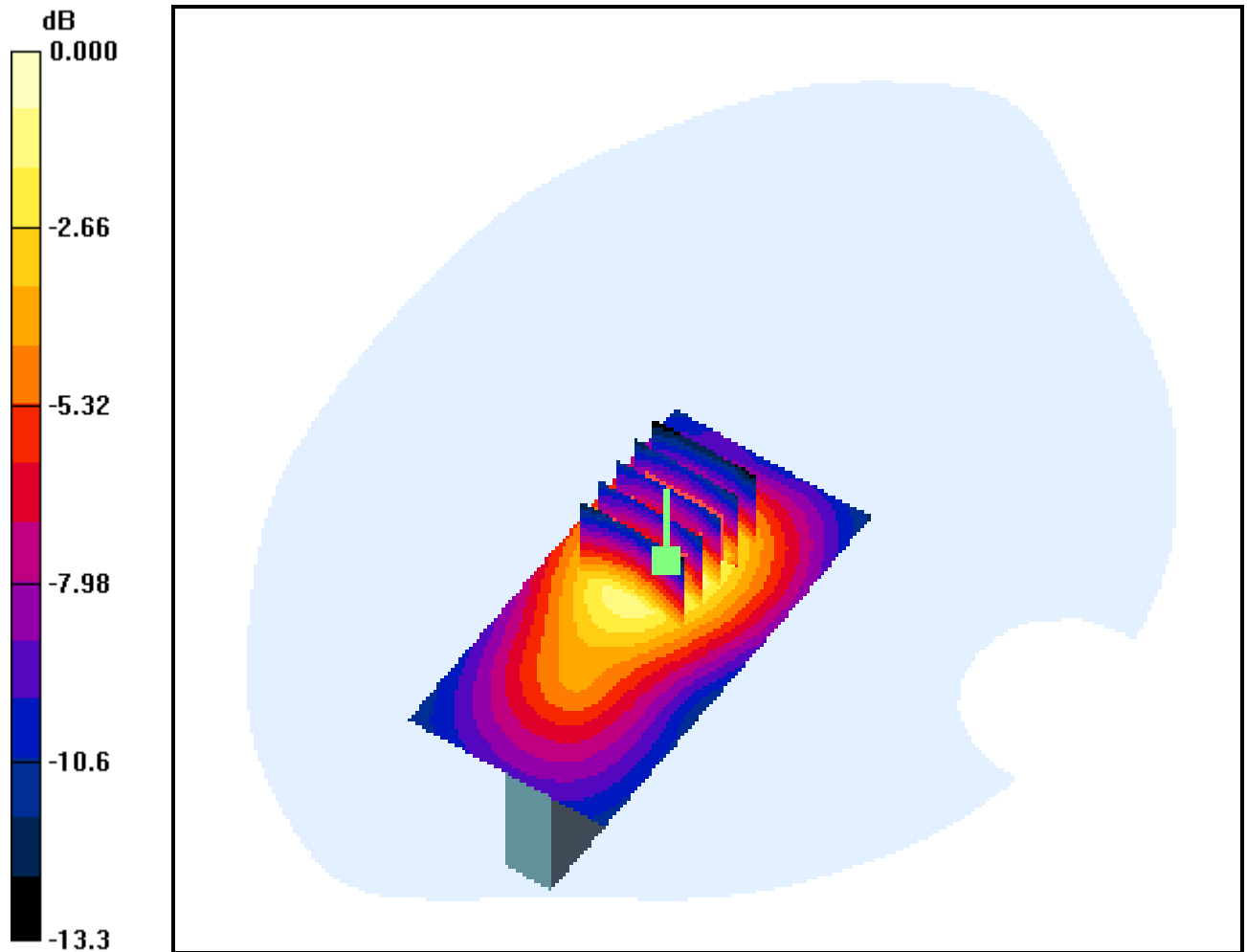
Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.299 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.801 mW/g; SAR(10 g) = 0.489 mW/g



0 dB = 0.979mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Vertical Front, CDMA PCS Ch. 1175, Ant Internal

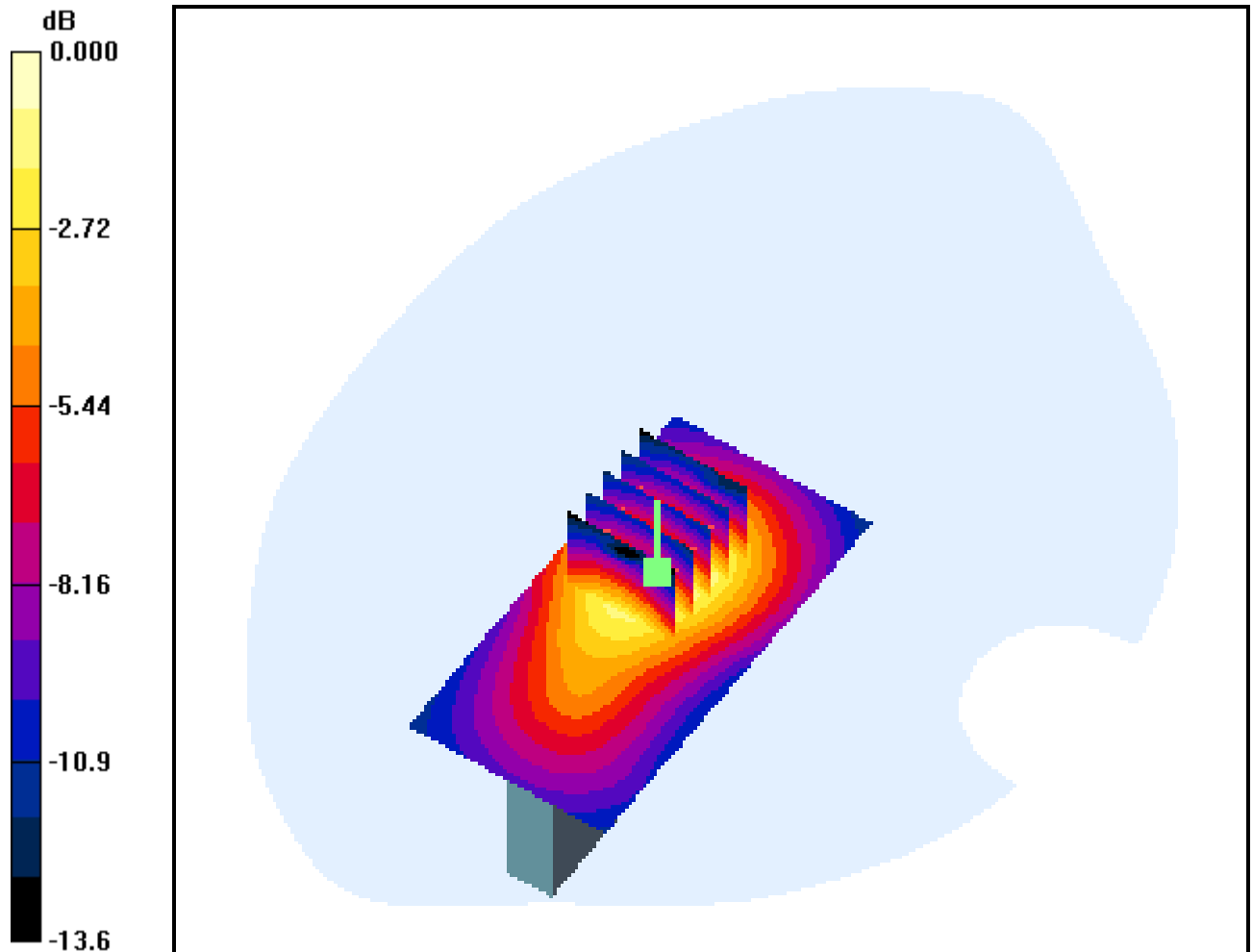
Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = -0.311 dB

Peak SAR (extrapolated) = 0.890 W/kg

SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.338 mW/g



0 dB = 0.705mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Vertical Back, CDMA PCS Ch. 600, Ant Internal

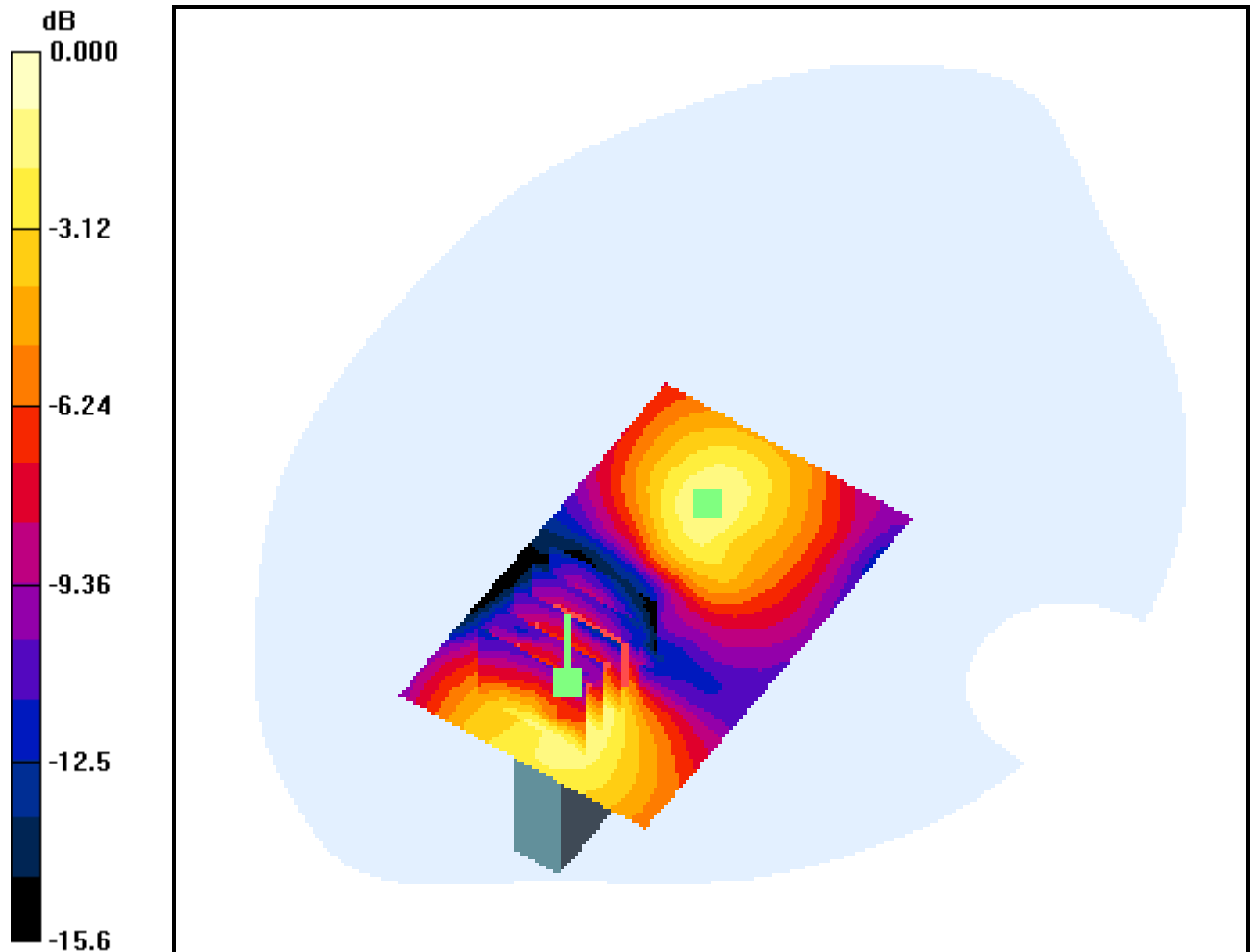
Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.312 dB

Peak SAR (extrapolated) = 0.340 W/kg

SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.132 mW/g



0 dB = 0.273mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.5 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Vertical Back, CDMA PCS Ch. 600, Ant Internal

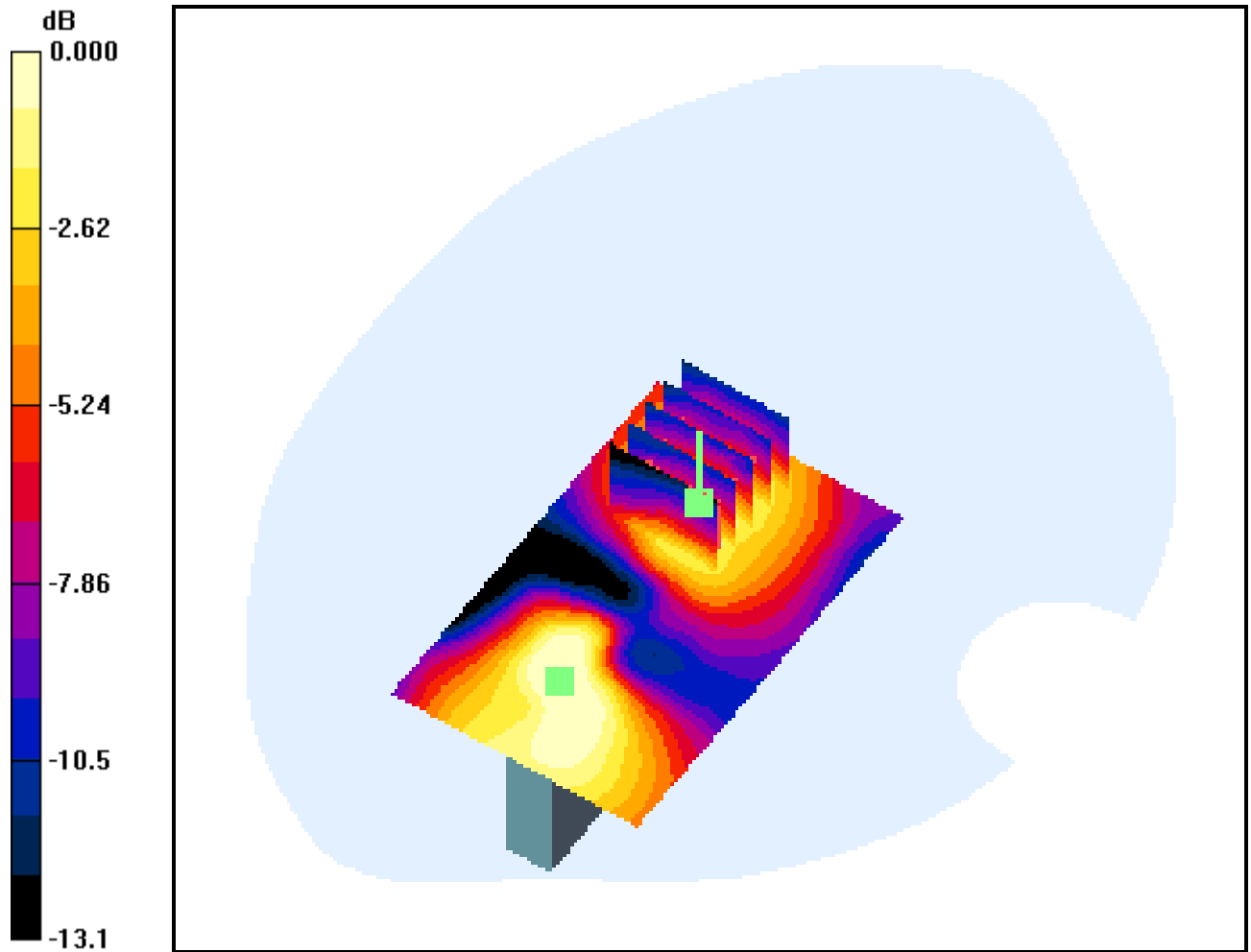
Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.312 dB

Peak SAR (extrapolated) = 0.253 W/kg

SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.106 mW/g



0 dB = 0.209mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Top, W-LAN(802.11b) Ch. Mid(2437 MHz), Ant Internal

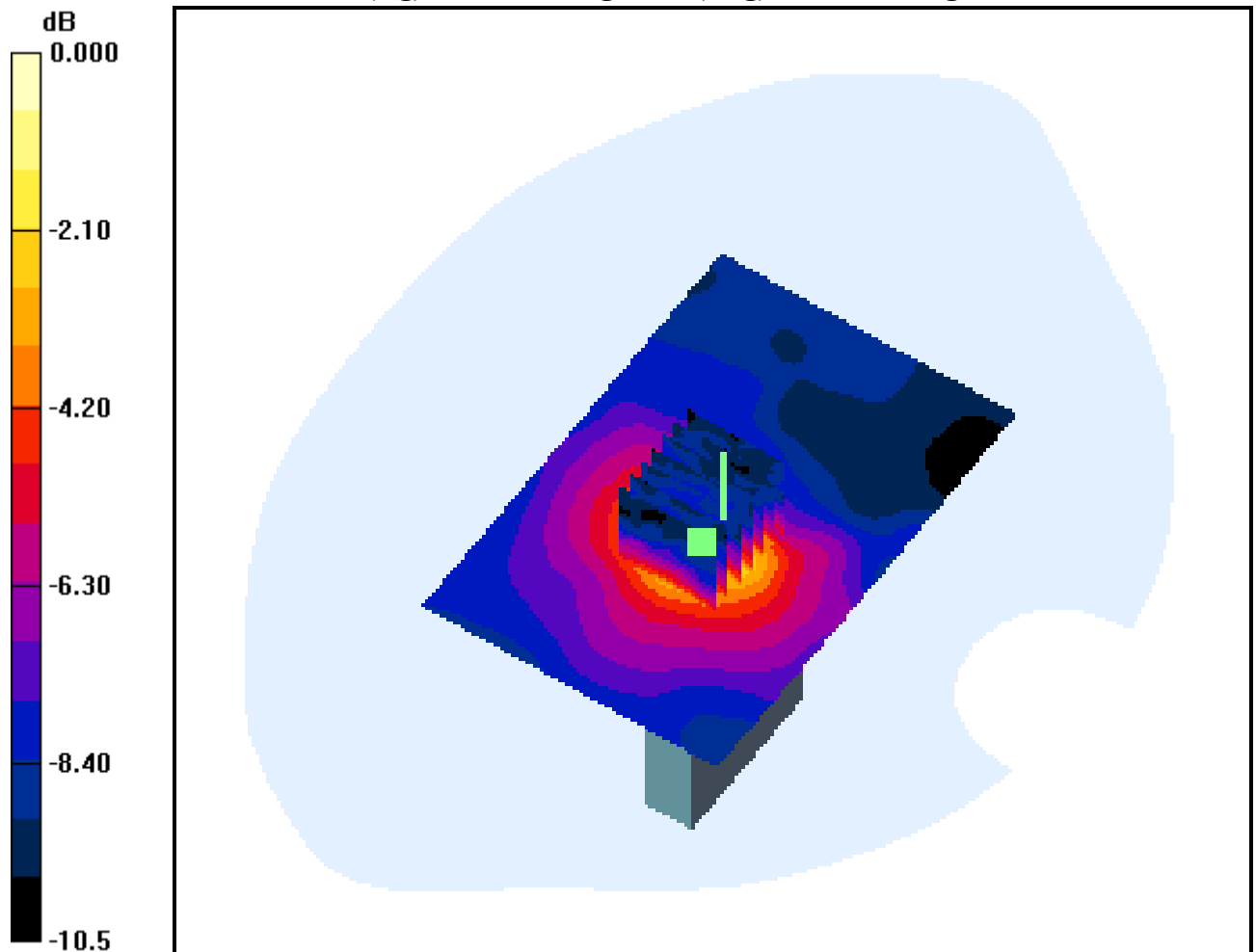
Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.232 dB

Peak SAR (extrapolated) = 0.245 W/kg

SAR(1 g) = 0.094 mW/g; SAR(10 g) = 0.053 mW/g



0 dB = 0.135mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Bottom, W-LAN(802.11b) Ch. Mid(2437 MHz), Ant Internal

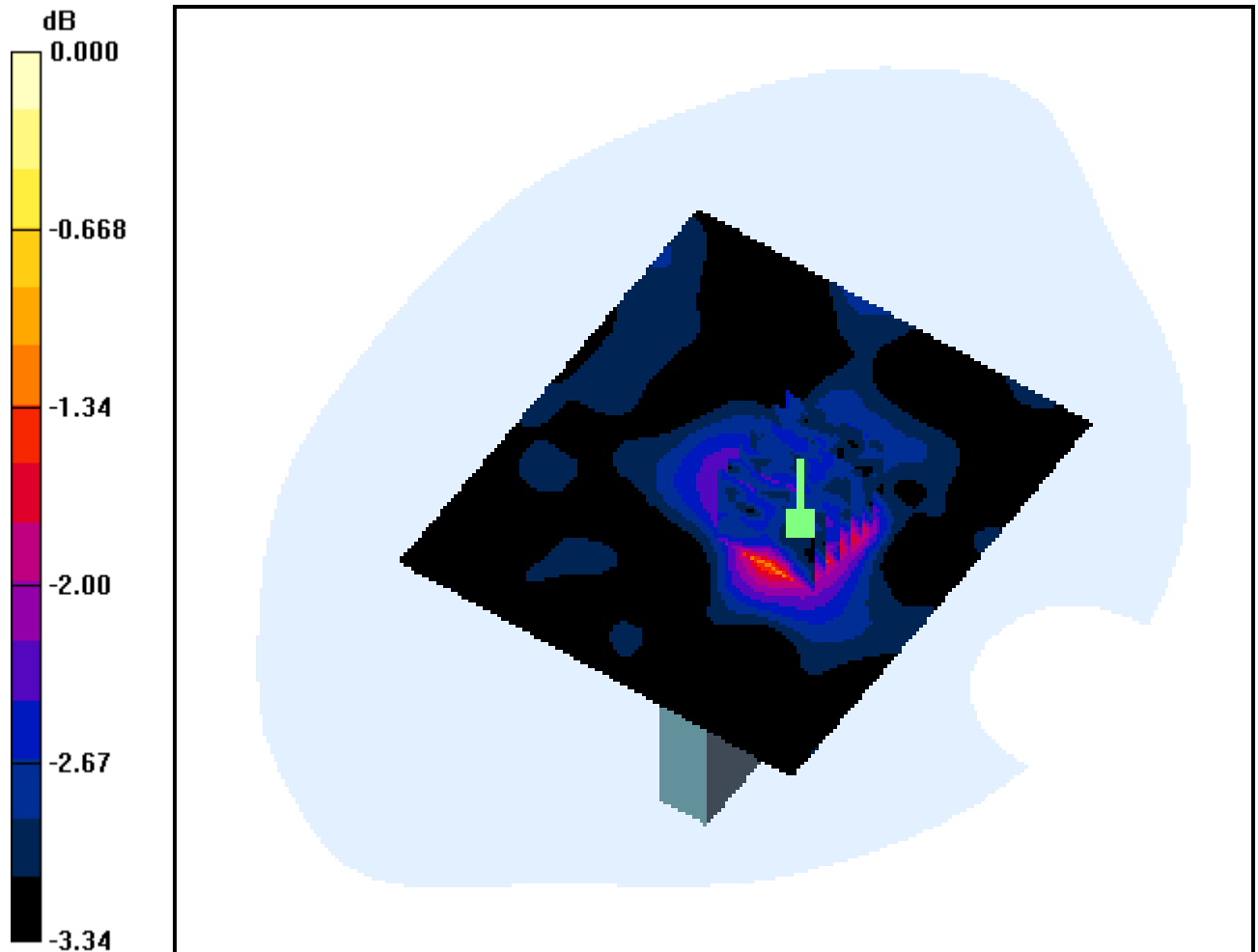
Area Scan (81x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.242 dB

Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.069 mW/g



0 dB = 0.104mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, W-LAN(802.11b) Ch. Low(2412 MHz), Ant Internal

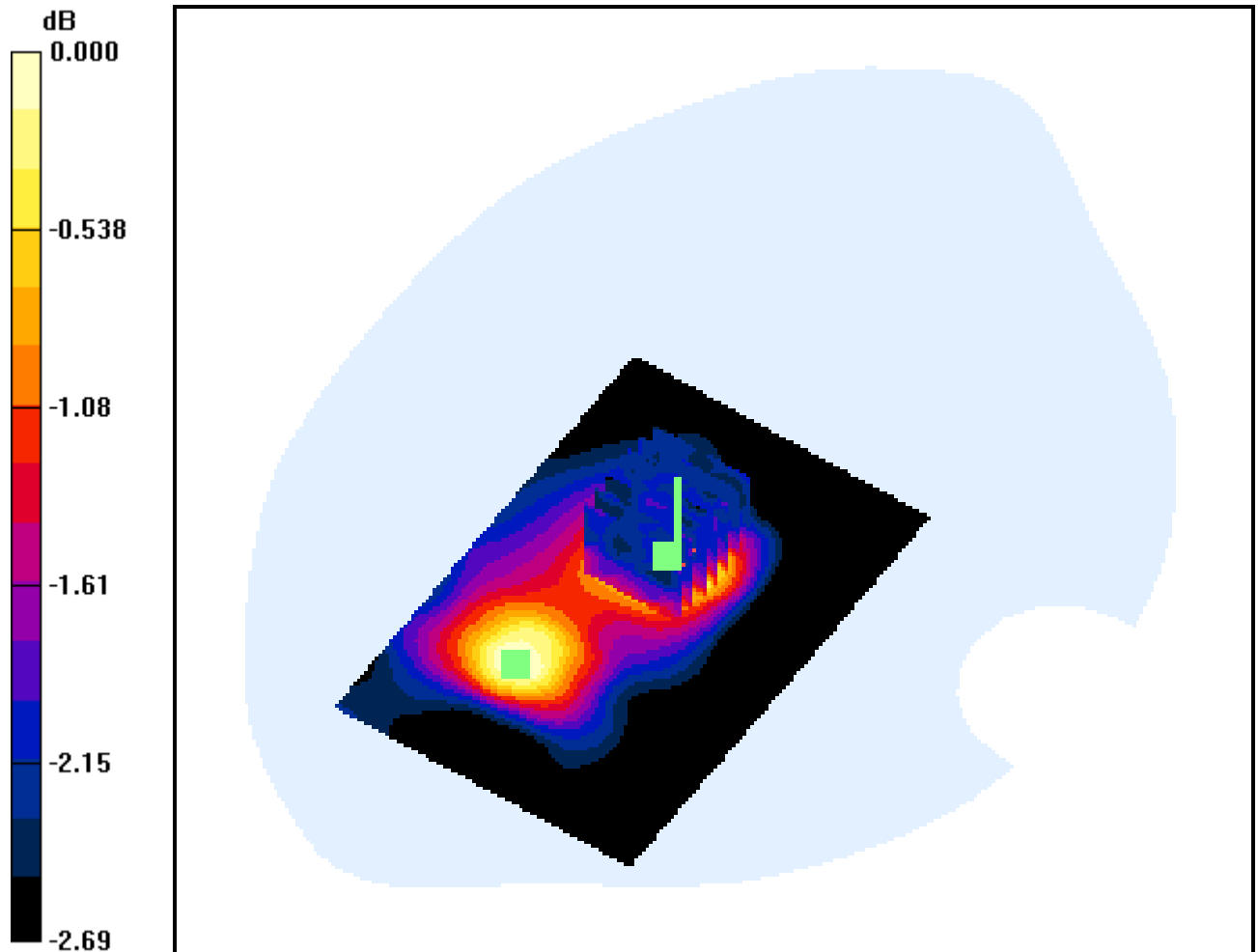
Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.106 mW/g



0 dB = 0.145mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, W-LAN(802.11b) Ch. Low(2412 MHz), Ant Internal

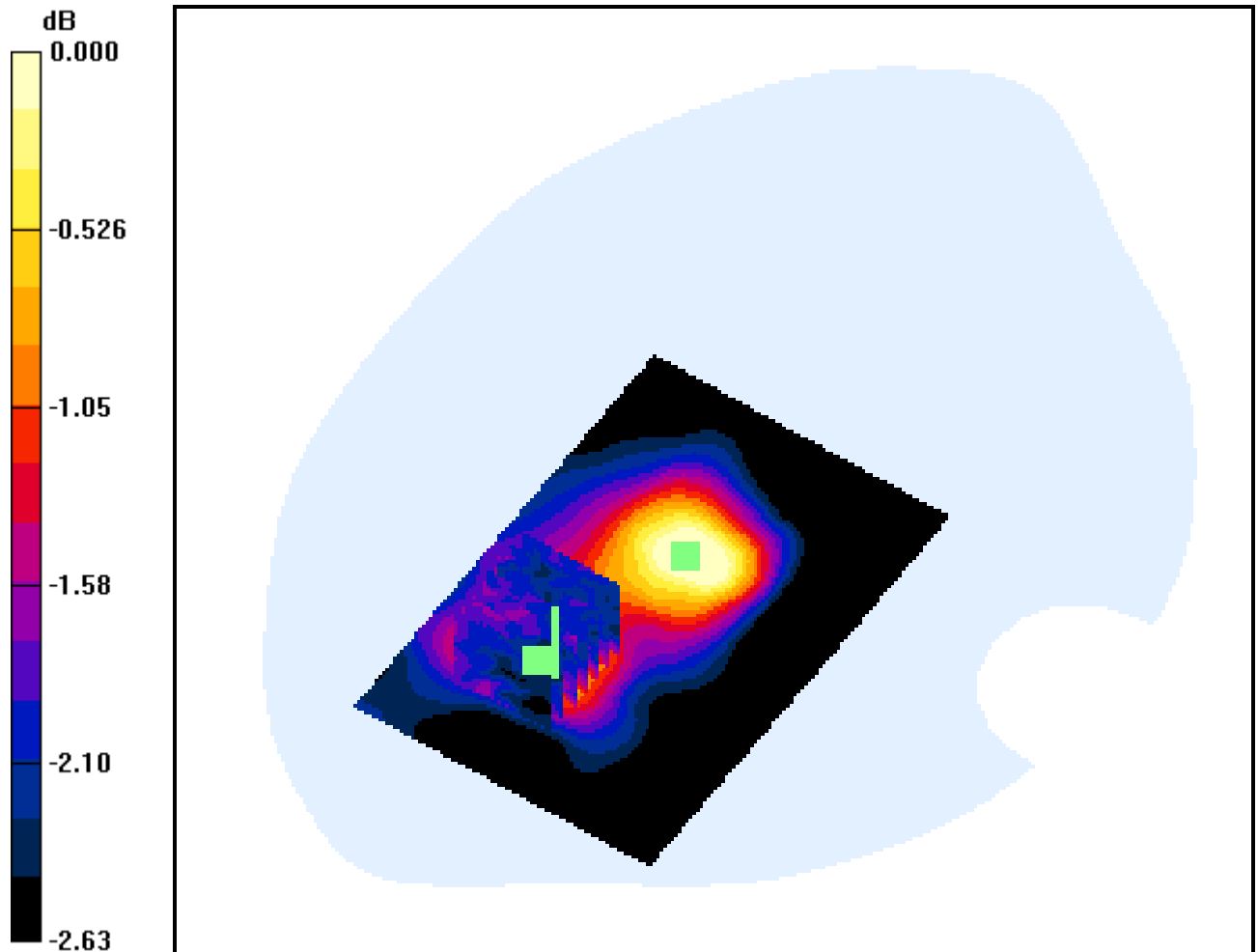
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.104 mW/g



0 dB = 0.142mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, W-LAN(802.11b) Ch. Mid(2437 MHz), Ant Internal

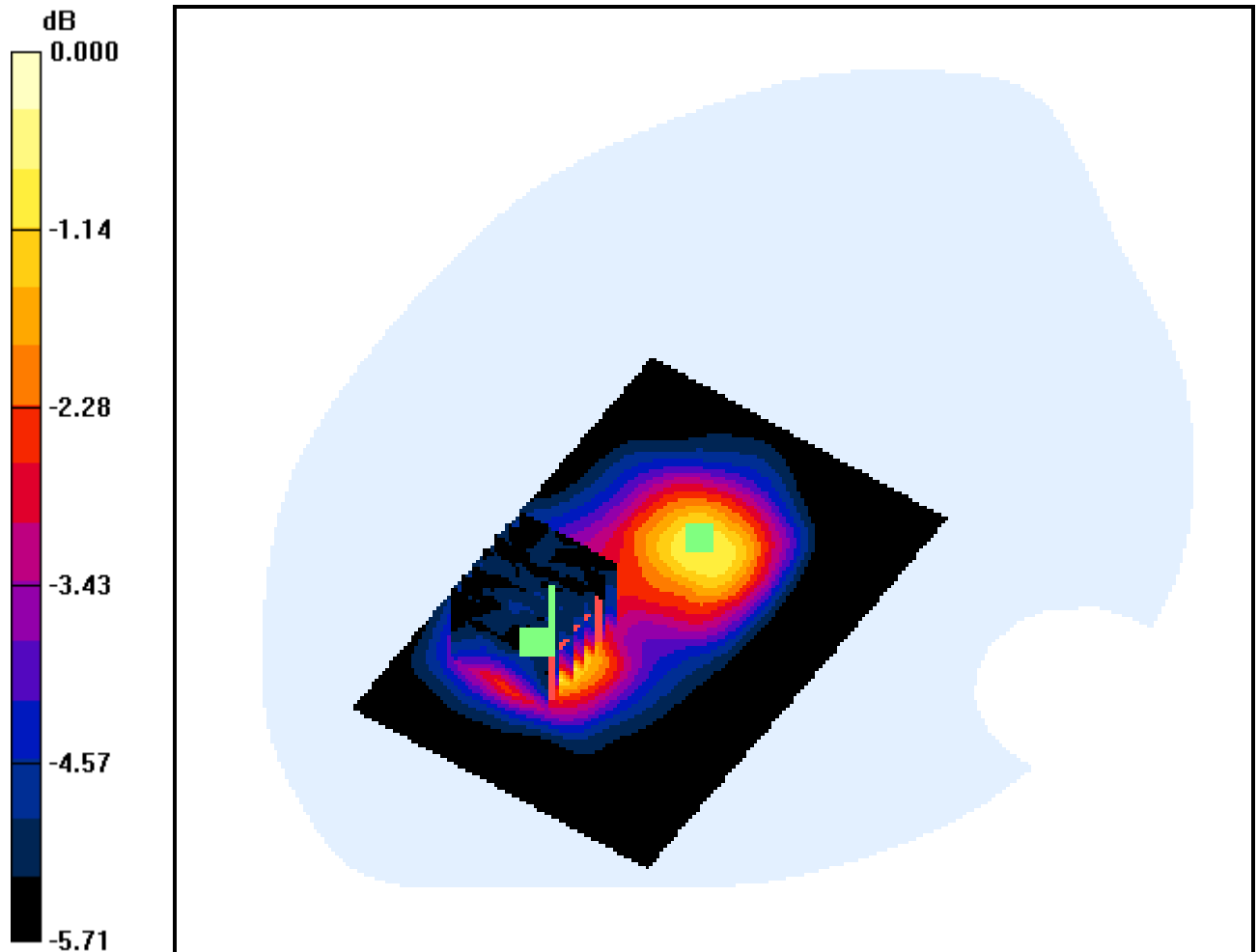
Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.276 dB

Peak SAR (extrapolated) = 0.397 W/kg

SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.149 mW/g



0 dB = 0.278mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, W-LAN(802.11b) Ch. Mid(2437 MHz), Ant Internal

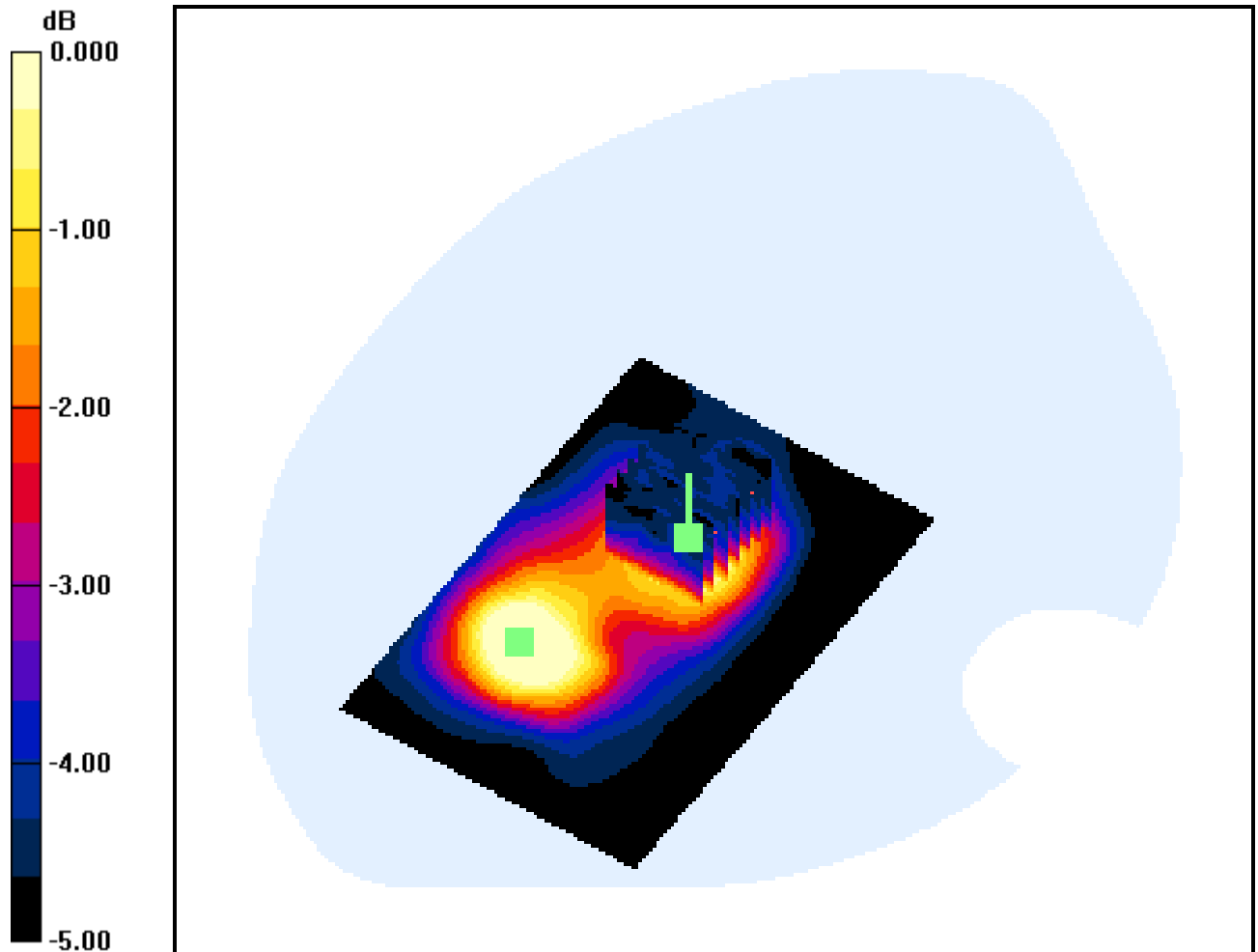
Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.276 dB

Peak SAR (extrapolated) = 0.279 W/kg

SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.133 mW/g



0 dB = 0.220mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.04 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, W-LAN(802.11b) Ch. High(2462 MHz), Ant Internal

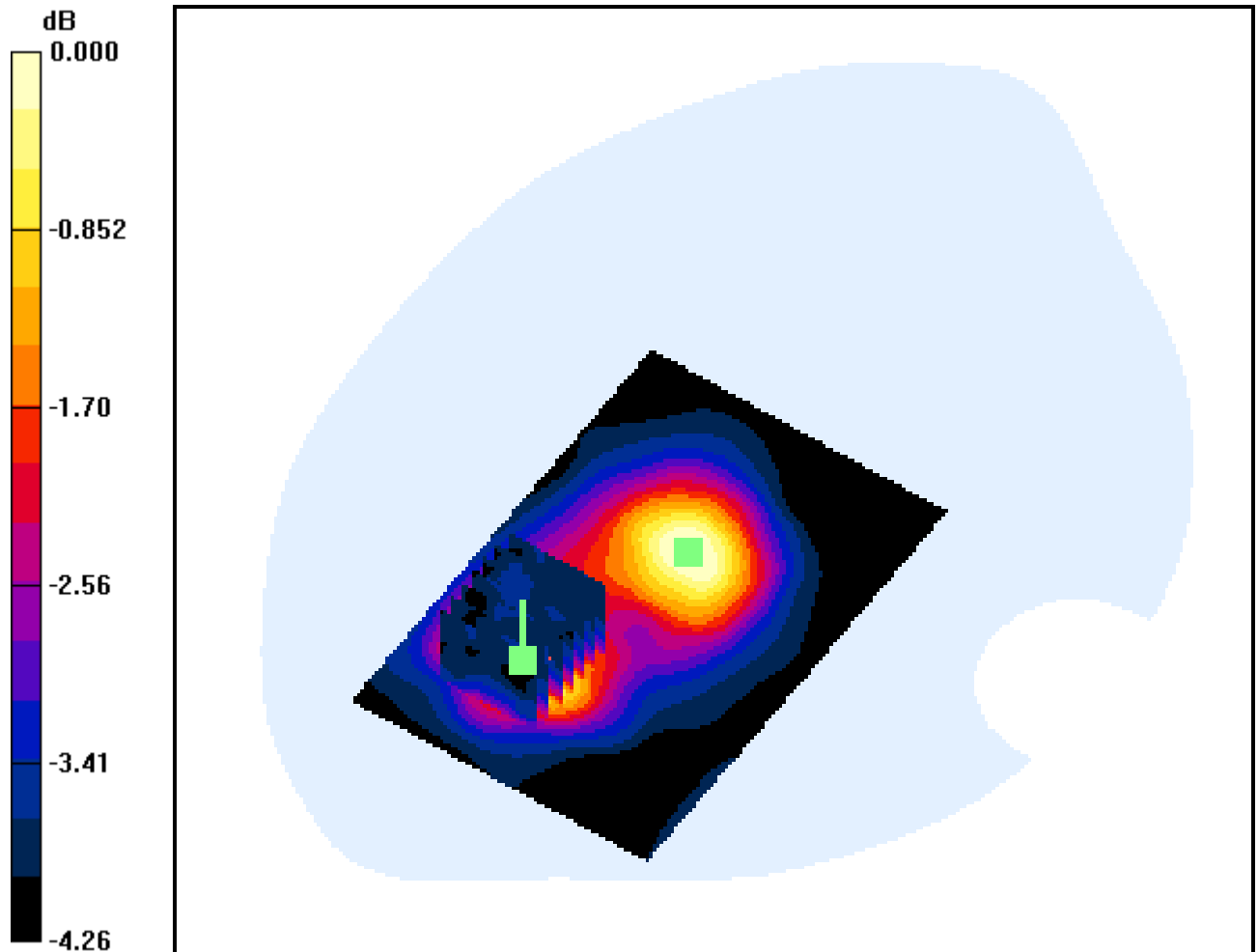
Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.370 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.169 mW/g



0 dB = 0.279mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.04 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, W-LAN(802.11b) Ch. High(2462 MHz), Ant Internal

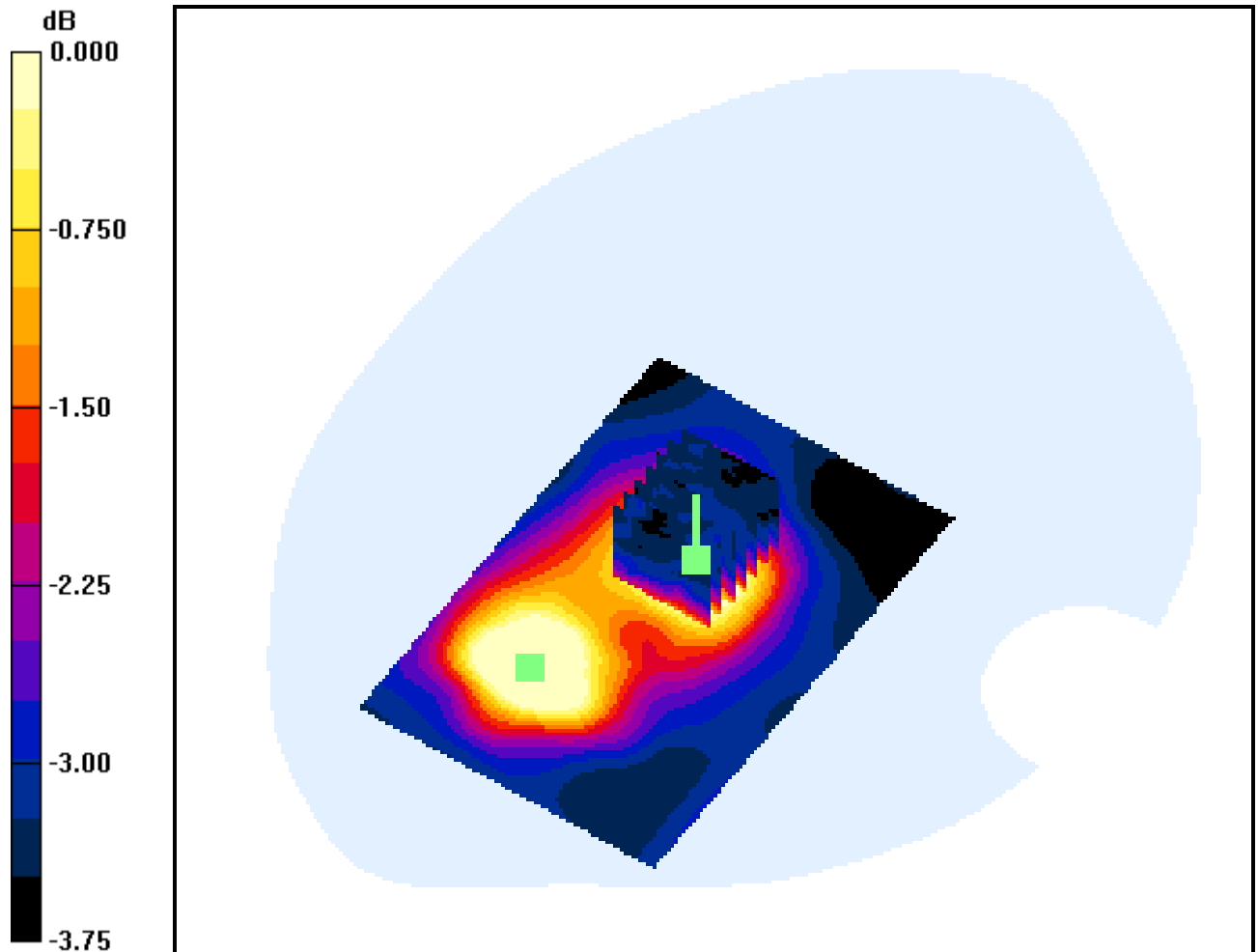
Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.370 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.149 mW/g



0 dB = 0.228mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Down, W-LAN(802.11b) Ch. Mid(2437 MHz), Ant Internal

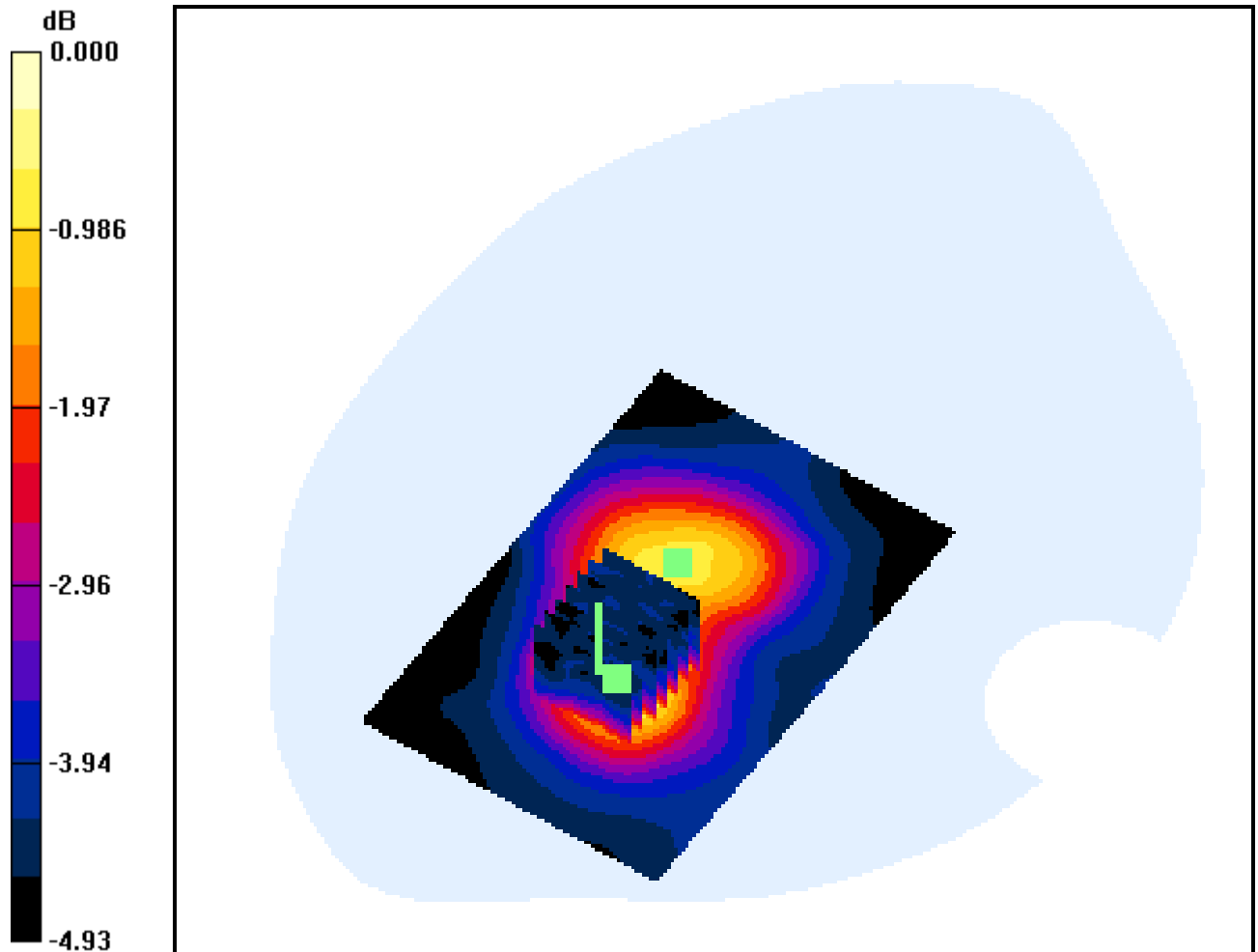
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Power Drift = -0.225 dB

Peak SAR (extrapolated) = 0.319 W/kg

SAR(1 g) = 0.208 mW/g; SAR(10 g) = 0.147 mW/g



0 dB = 0.249mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Down, W-LAN(802.11b) Ch. Mid(2437 MHz), Ant Internal

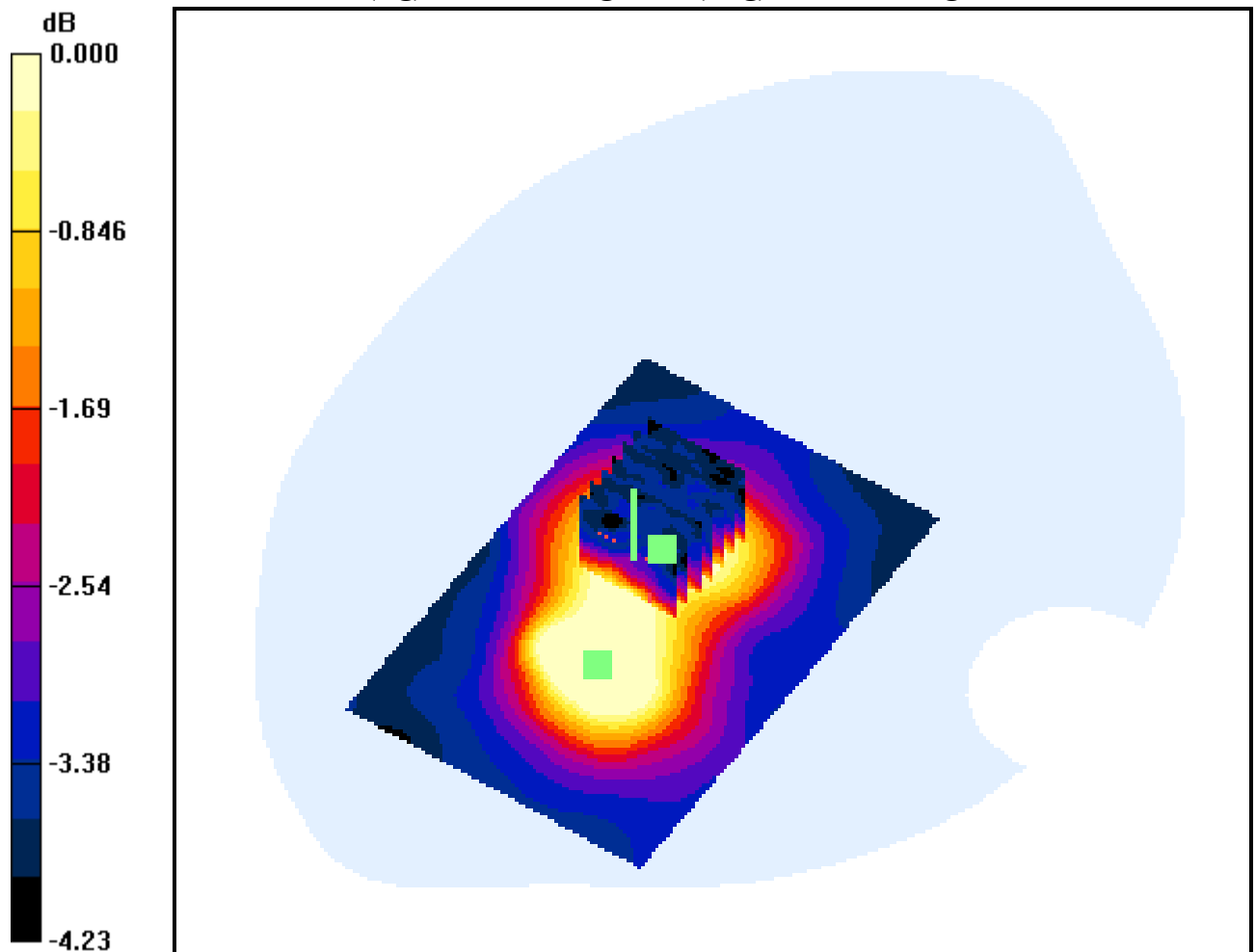
Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.225 dB

Peak SAR (extrapolated) = 0.258 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.126 mW/g



0 dB = 0.195mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Vertical Front, W-LAN(802.11b) Ch. Mid(2437 MHz), Ant Internal

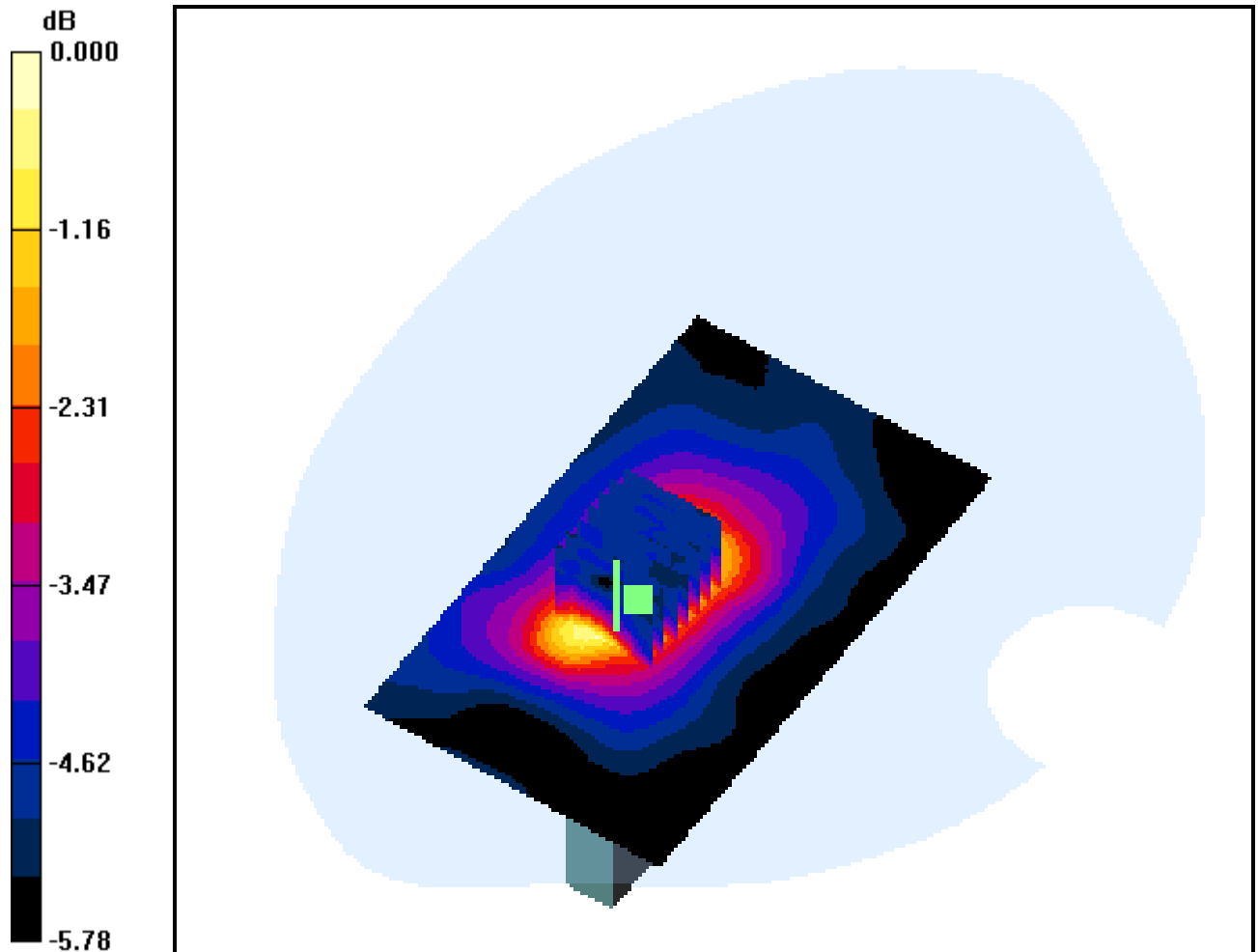
Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.010 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.107 mW/g



0 dB = 0.189mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 2 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Vertical Back, W-LAN(802.11b) Ch. Mid(2437 MHz), Ant Internal

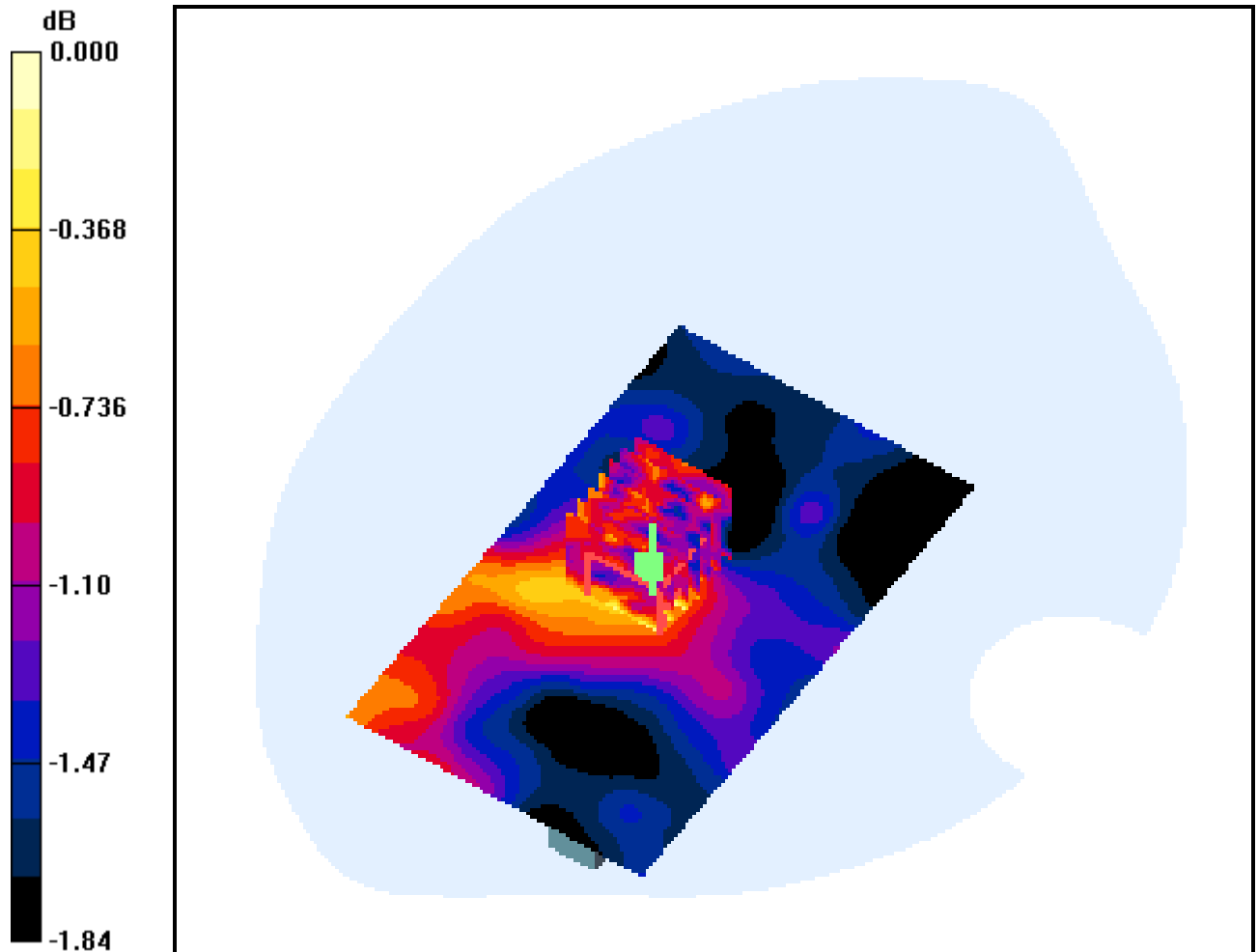
Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = -0.254 dB

Peak SAR (extrapolated) = 0.094 W/kg

SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.059 mW/g



0 dB = 0.072mW/g

DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.667$ MHz; $\sigma = 0.954$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(9.31, 9.31, 9.31); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-29; Ambient Temp: 22.0; Tissue Temp: 22.5

1cm space from Body, Horizontal Down, CDMA Cellular Ch. 384, Ant Internal

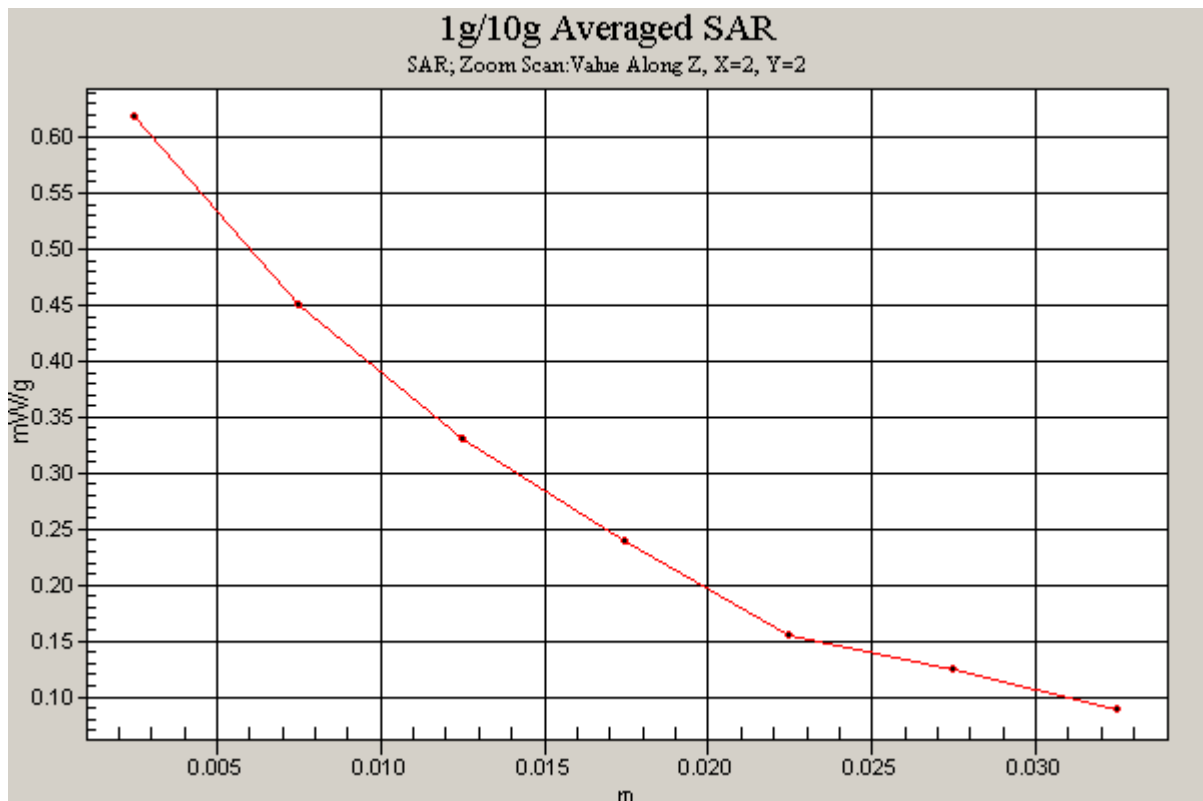
Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.116 dB

Peak SAR (extrapolated) = 0.765 W/kg

SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.394 mW/g



DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: FCC_PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.59, 7.59, 7.59); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-28; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Down, CDMA PCS Ch. 25, Ant Internal

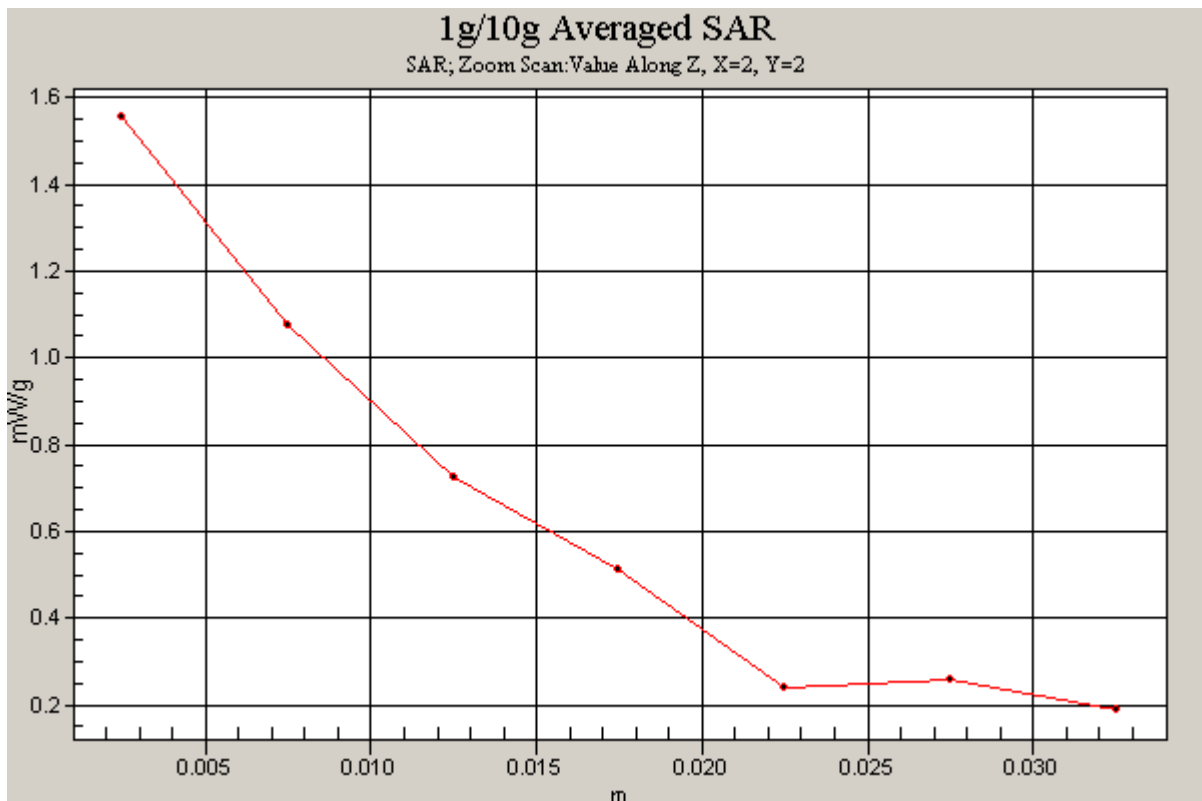
Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.127 dB

Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.812 mW/g



DIGITAL EMC CO., LTD

DUT: SER-8189; Type: USB Modem

Communication System: W-LAN; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.04 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: EX3DV4 - SN3643; ConvF(7.41, 7.41, 7.41); Calibrated: 2010-01-26; Electronics: DAE3 Sn520
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: 2010-07-30; Ambient Temp: 22.5; Tissue Temp: 23.0

1cm space from Body, Horizontal Up, W-LAN(802.11b) Ch. High(2462 MHz), Ant Internal

Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Power Drift = 0.370 dB

Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.169 mW/g

