

# 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:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.926 \text{ mho/m}$ ;  $\epsilon_r = 40.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.59, 8.59, 8.59); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

## **Dipole Validation**

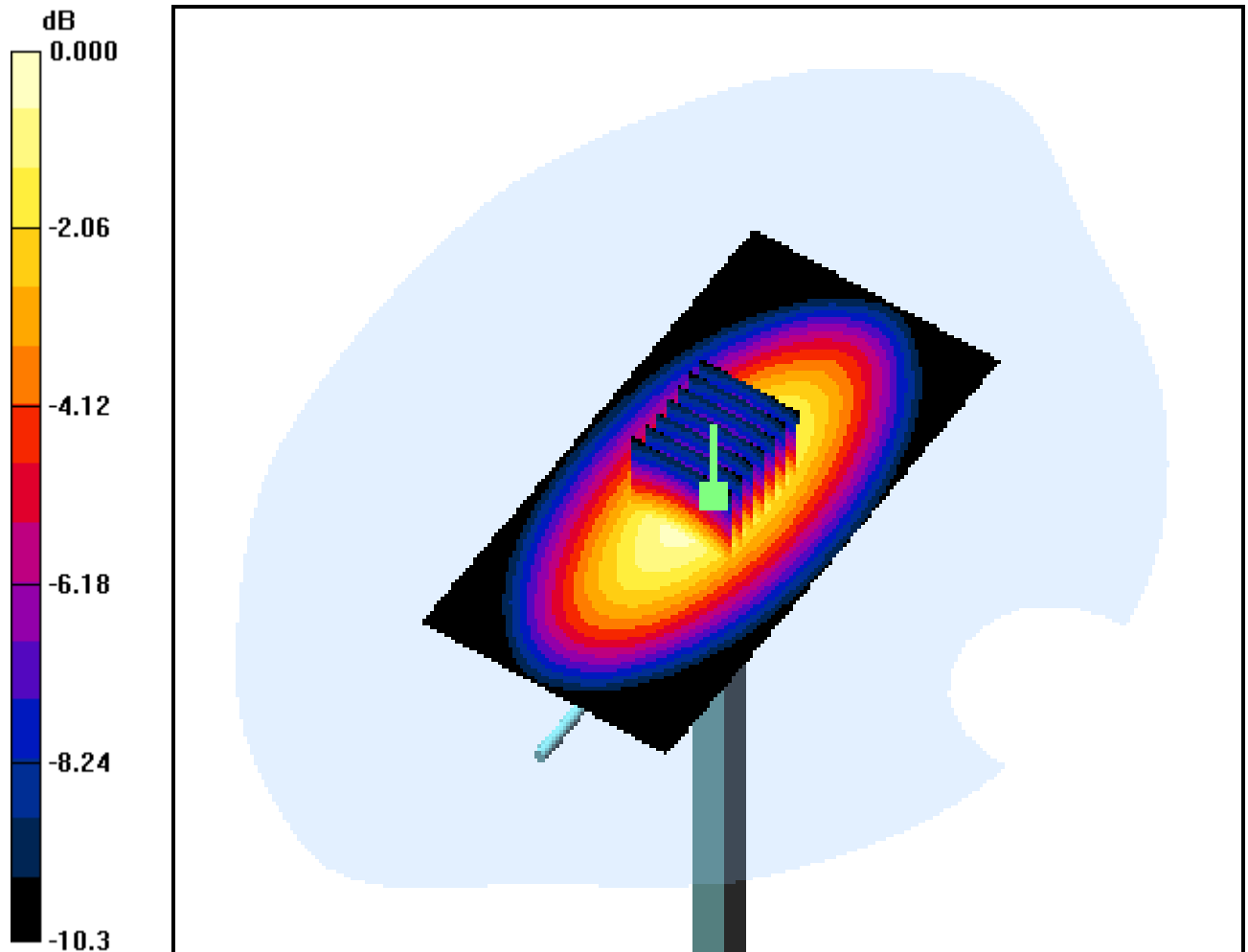
**Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.001 dB

Peak SAR (extrapolated) = 3.64 W/kg

**SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.57 mW/g**



0 dB = 2.59mW/g

# 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:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.918 \text{ mho/m}$ ;  $\epsilon_r = 40.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.59, 8.59, 8.59); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-09-17; Ambient Temp: 21.5; Tissue Temp: 21.2

## **Dipole Validation**

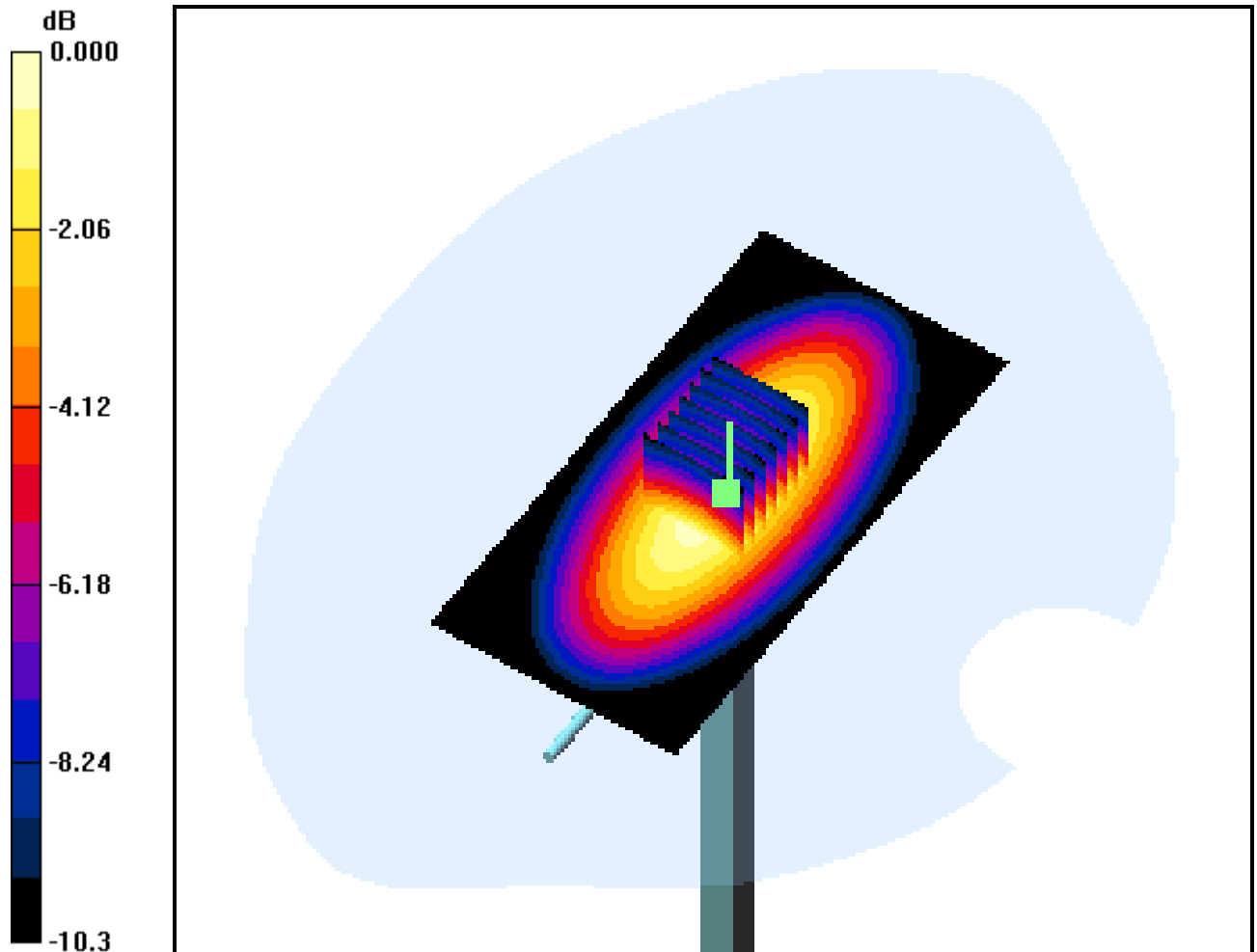
**Area Scan (51x101x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.016 dB

Peak SAR (extrapolated) = 3.62 W/kg

**SAR(1 g) = 2.39 mW/g; SAR(10 g) = 1.57 mW/g**



0 dB = 2.59mW/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:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.46 \text{ mho/m}$ ;  $\epsilon_r = 39.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.56, 7.56, 7.56); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

## **Dipole Validation**

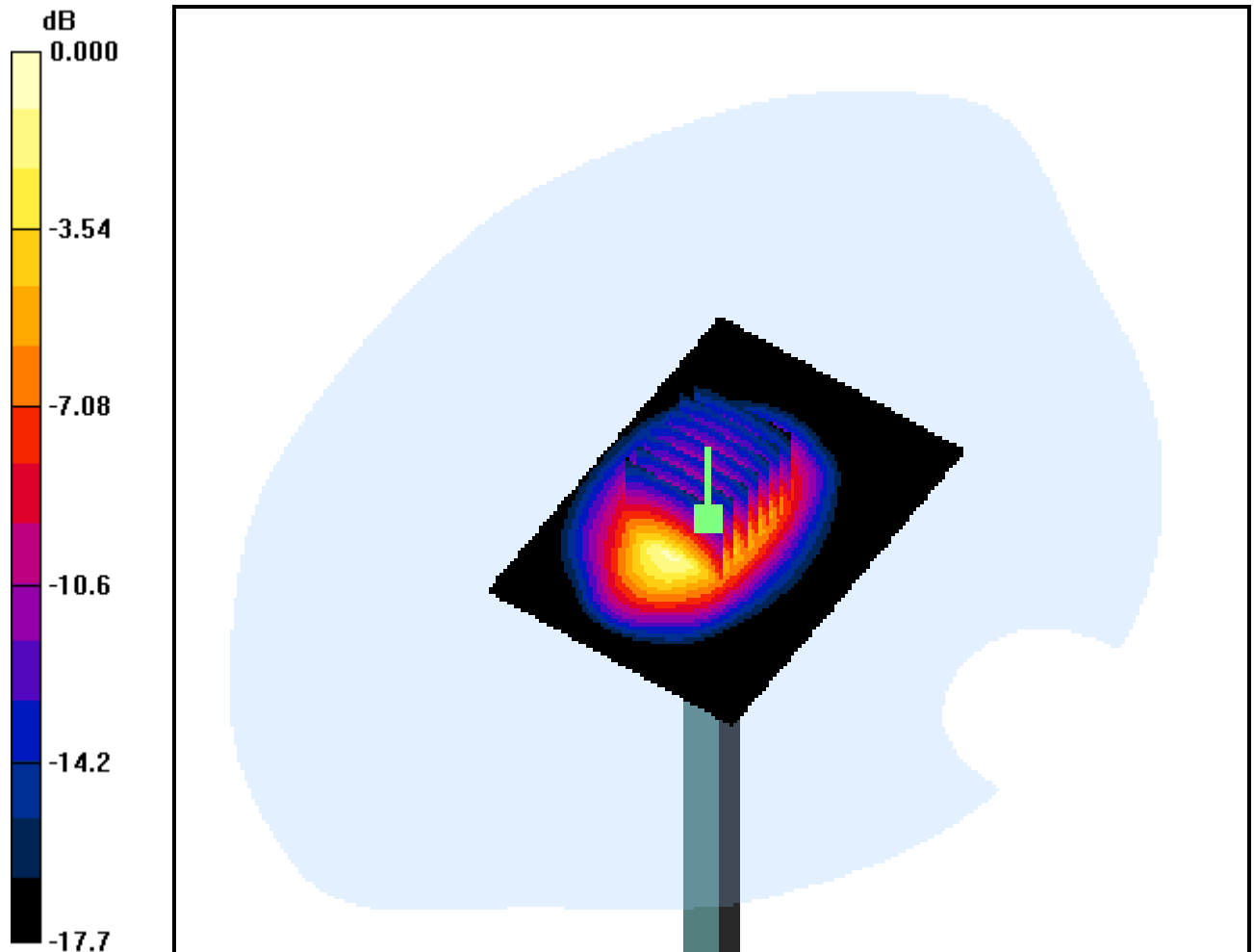
**Area Scan (51x71x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.033 dB

Peak SAR (extrapolated) = 19.1 W/kg

**SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.28 mW/g**



0 dB = 13.7mW/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:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.45 \text{ mho/m}$ ;  $\epsilon_r = 39.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.56, 7.56, 7.56); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-09-17; Ambient Temp: 21.5; Tissue Temp: 21.2

## **Dipole Validation**

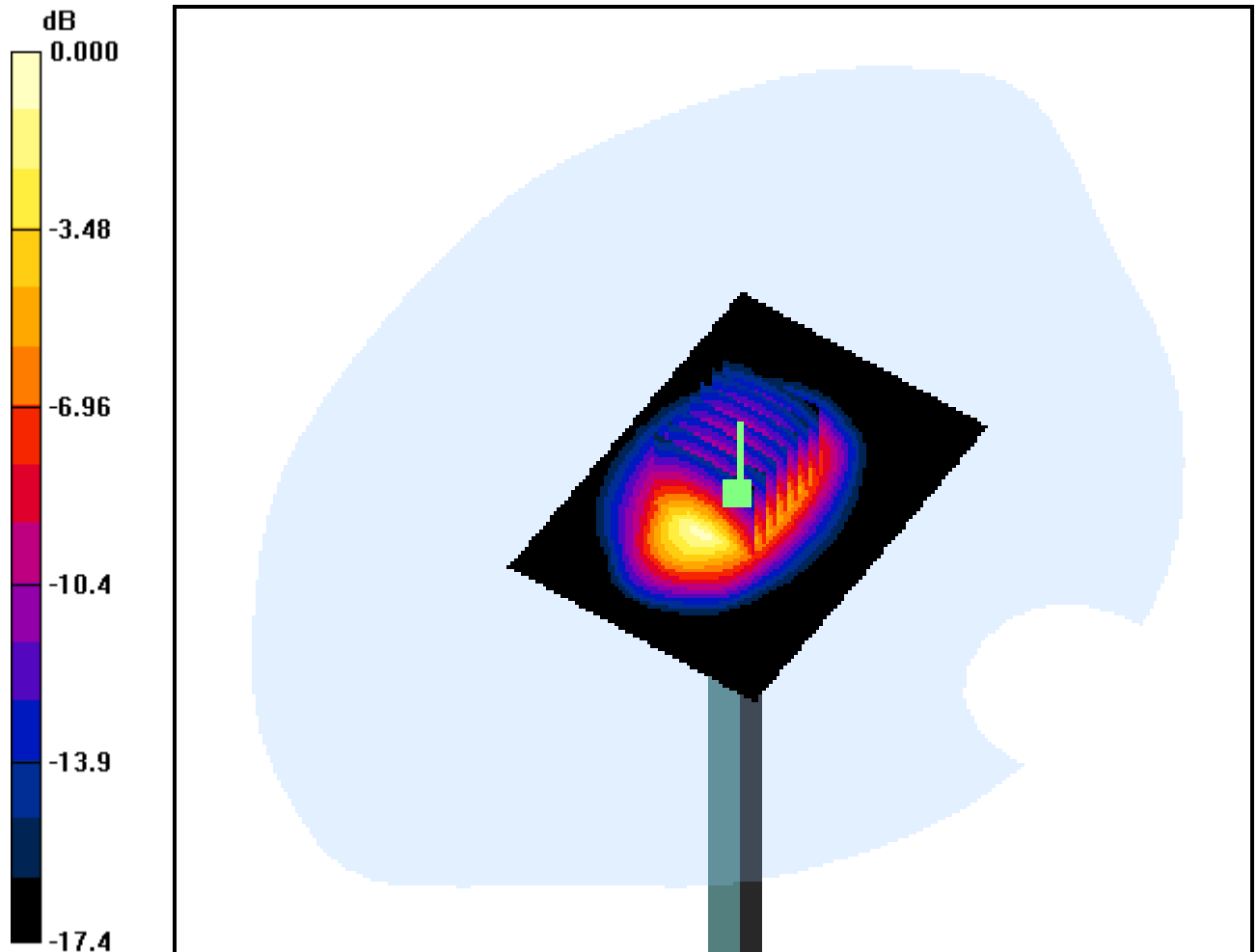
**Area Scan (51x71x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**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) = 18.8 W/kg

**SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.31 mW/g**



0 dB = 13.6mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.981 \text{ mho/m}$ ;  $\epsilon_r = 53.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

**Touch from Body, Normal Position, WCDMA(FDD V) Ch.4132, Ant External**

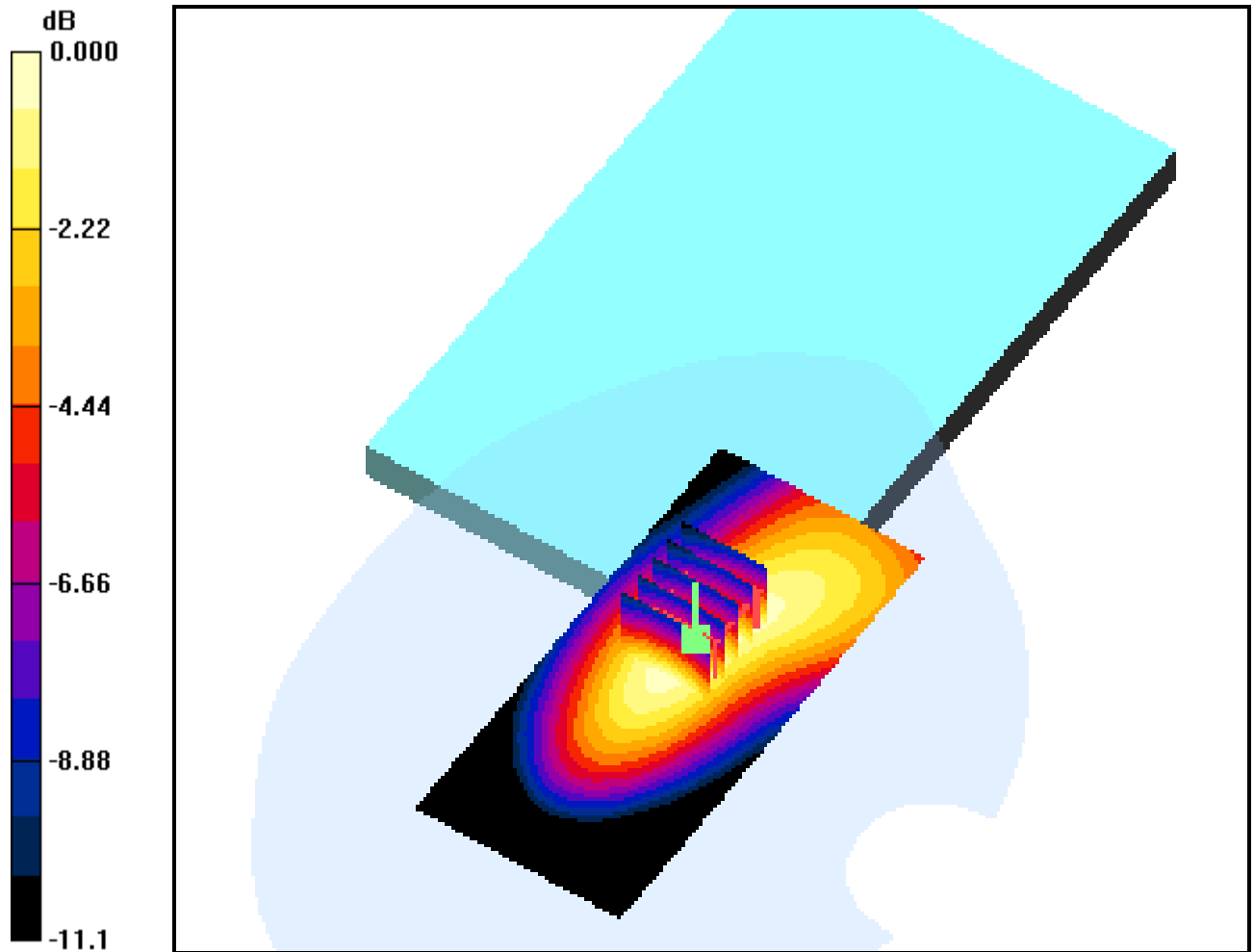
**Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.056 dB

Peak SAR (extrapolated) = 0.592 W/kg

**SAR(1 g) = 0.405 mW/g; SAR(10 g) = 0.273 mW/g**



0 dB = 0.485mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.991 \text{ mho/m}$ ;  $\epsilon_r = 53.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

**Touch from Body, Normal Position, WCDMA(FDD V) Ch.4182, Ant External**

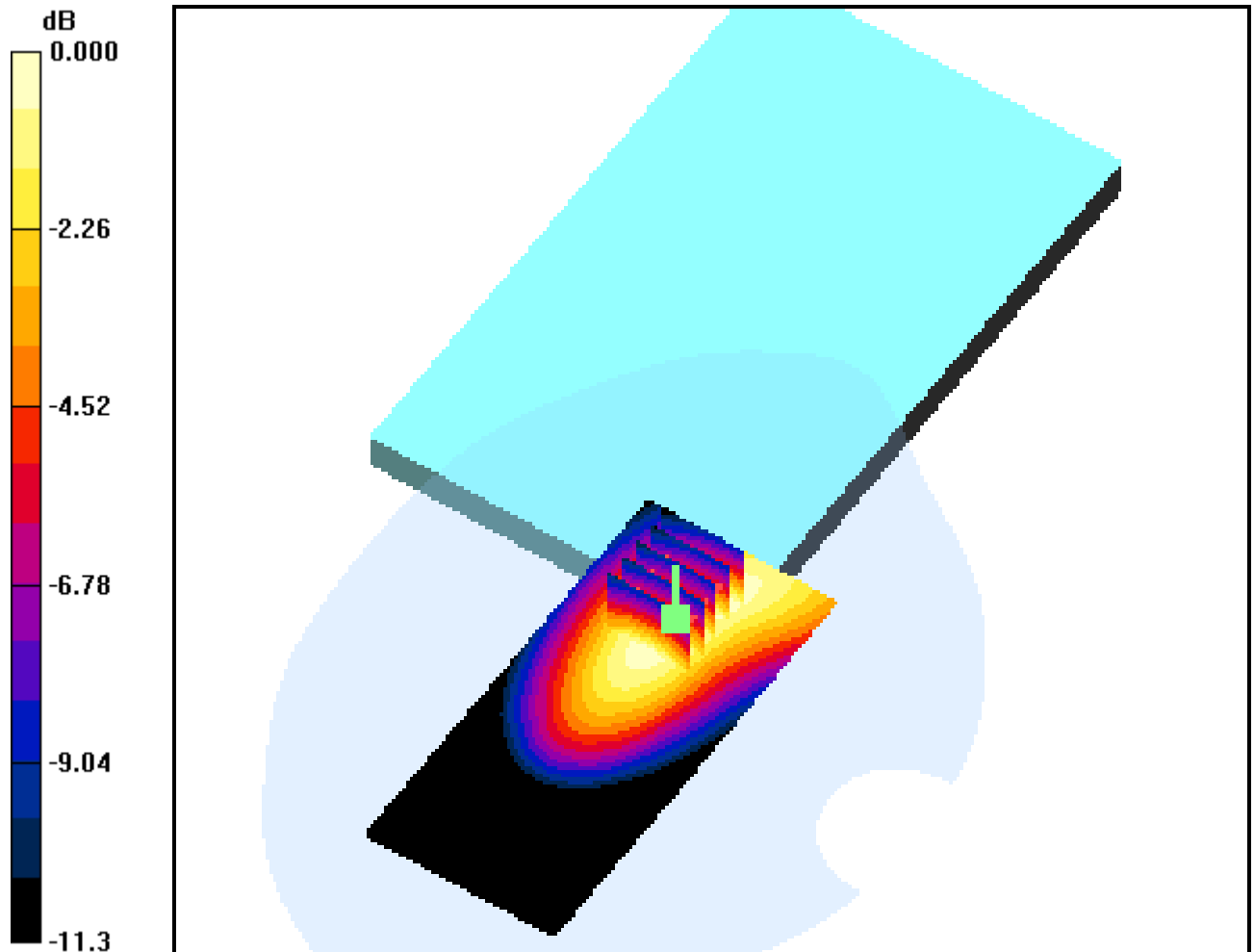
**Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.008 dB

Peak SAR (extrapolated) = 0.622 W/kg

**SAR(1 g) = 0.429 mW/g; SAR(10 g) = 0.289 mW/g**



0 dB = 0.514mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 846.6 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 846.6 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 53.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

**Touch from Body, Normal Position, WCDMA(FDD V) Ch.4233, Ant External**

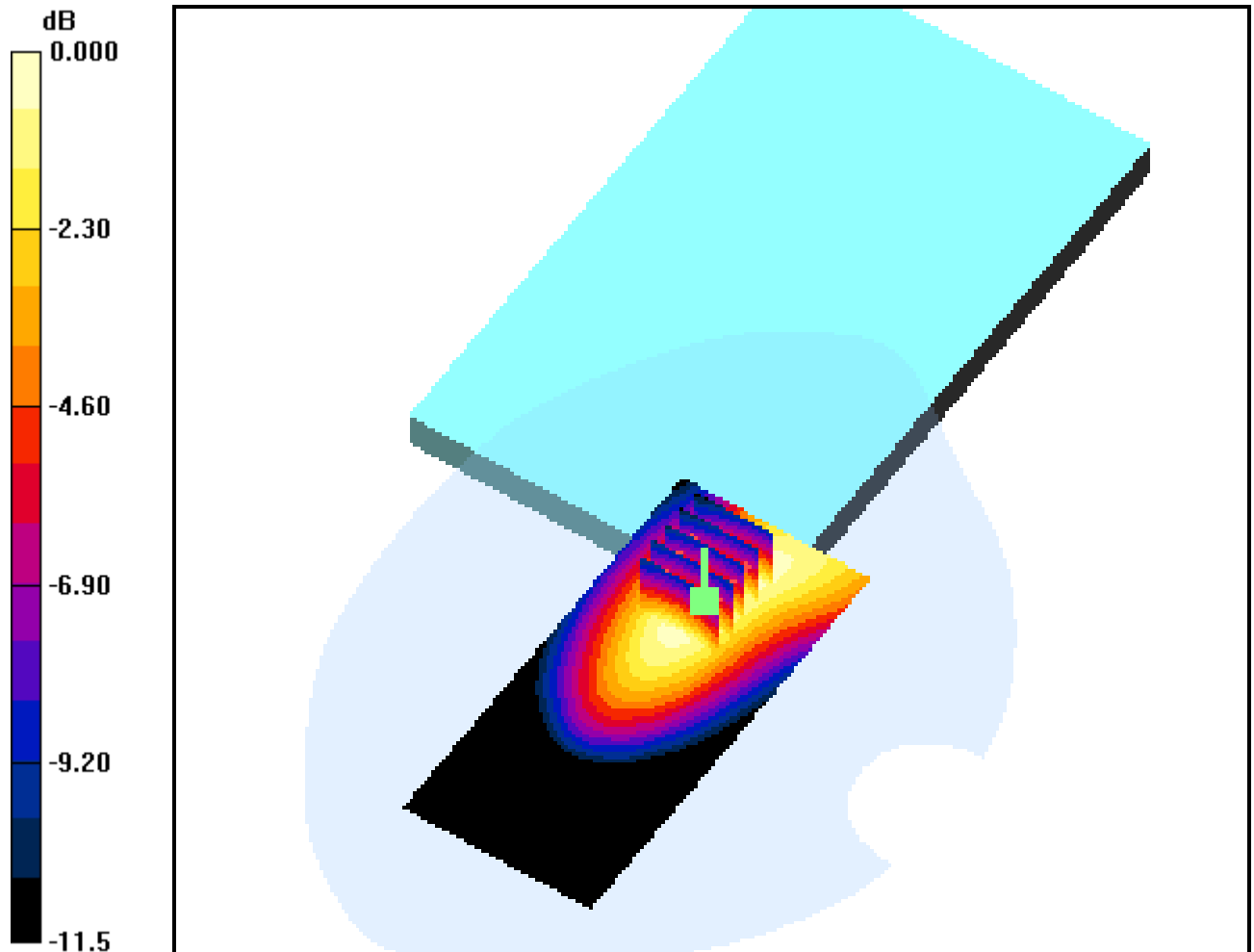
**Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.017 dB

Peak SAR (extrapolated) = 0.538 W/kg

**SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.247 mW/g**



0 dB = 0.445mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.991 \text{ mho/m}$ ;  $\epsilon_r = 53.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

**Touch from Body, Normal Position, WCDMA(FDD V) Ch.4182**

**Insert one step in External Ant**

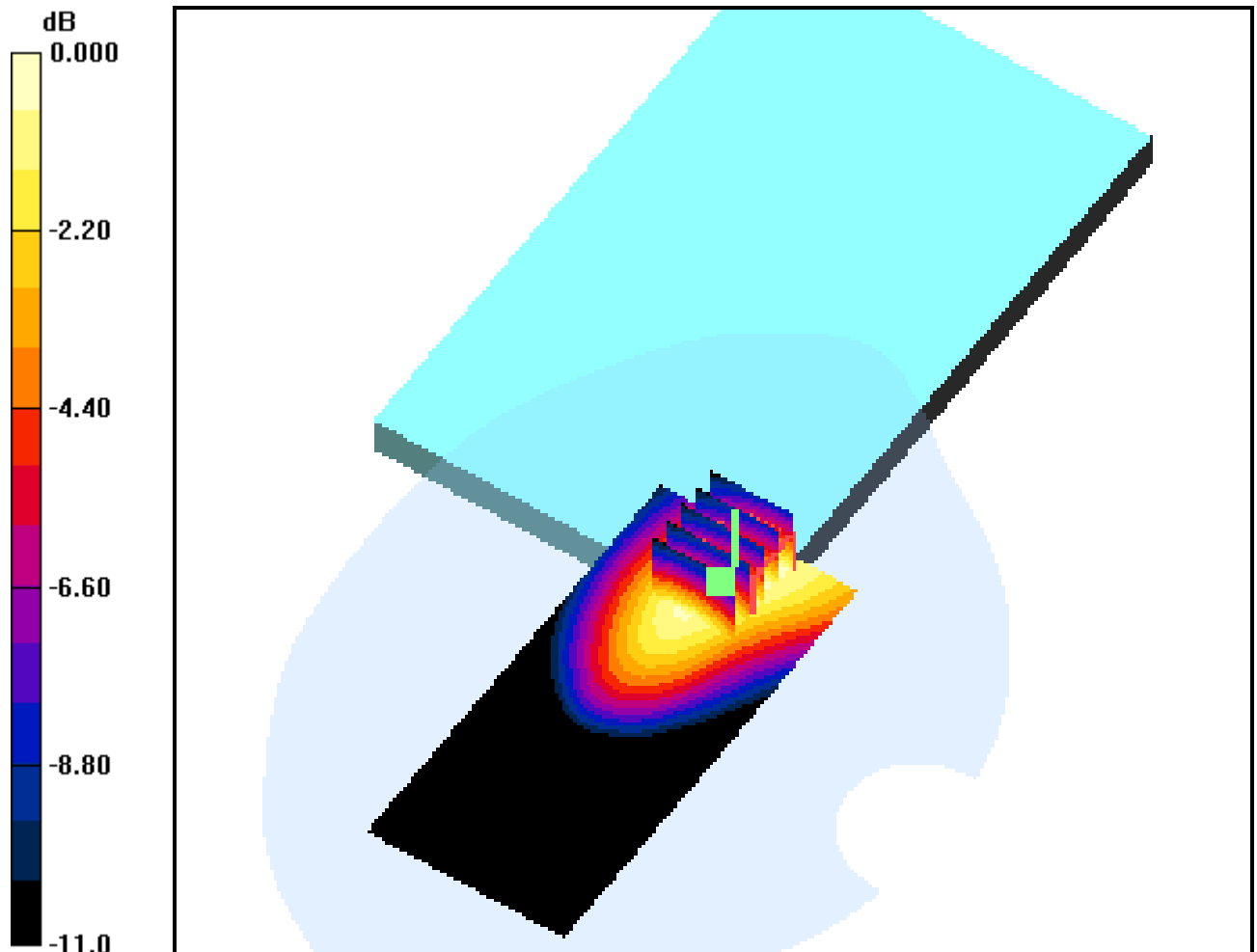
**Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.072 dB

Peak SAR (extrapolated) = 0.934 W/kg

**SAR(1 g) = 0.621 mW/g; SAR(10 g) = 0.418 mW/g**



0 dB = 0.756mW/g



# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.991 \text{ mho/m}$ ;  $\epsilon_r = 53.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

**Touch from Body, Normal Position, WCDMA(FDD V) Ch.4182**

**Insert two step in External Ant**

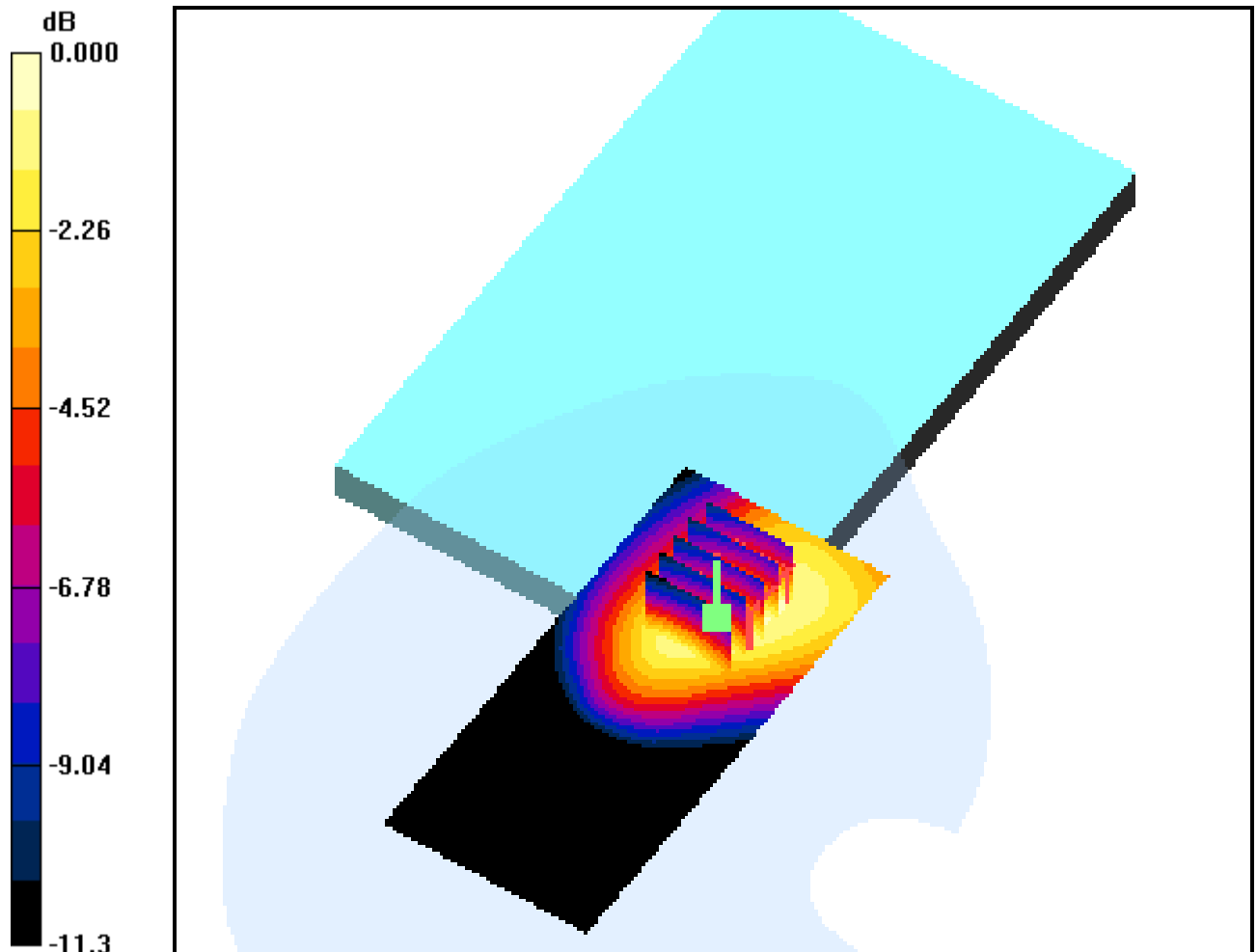
**Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.027 dB

Peak SAR (extrapolated) = 0.507 W/kg

**SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.239 mW/g**



0 dB = 0.419mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.991 \text{ mho/m}$ ;  $\epsilon_r = 53.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

**Touch from Body, Normal Position, WCDMA(FDD V) Ch.4182**

## **Side External Ant**

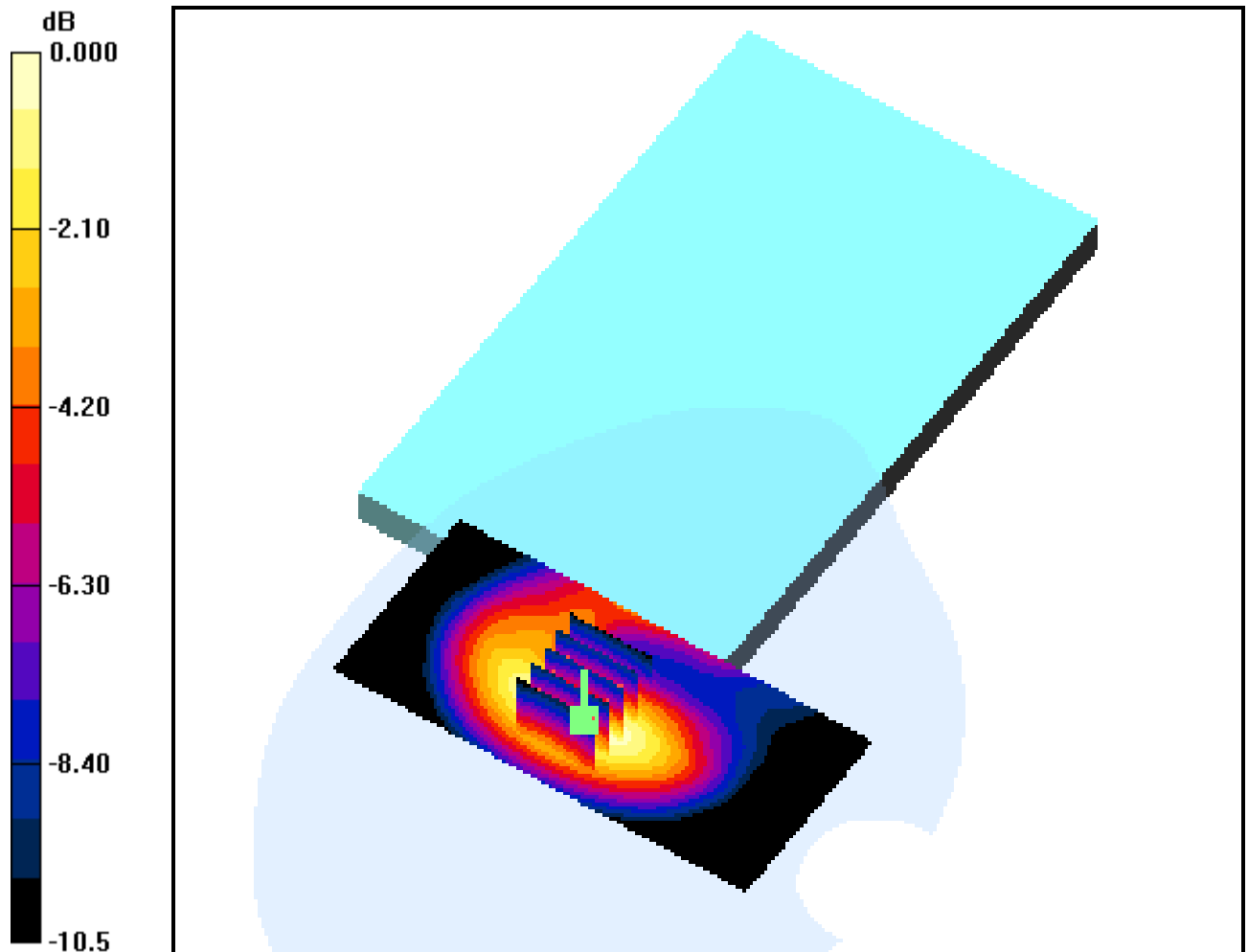
**Area Scan (111x51x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.012 dB

Peak SAR (extrapolated) = 0.550 W/kg

**SAR(1 g) = 0.356 mW/g; SAR(10 g) = 0.233 mW/g**



0 dB = 0.430mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.991 \text{ mho/m}$ ;  $\epsilon_r = 53.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

**Touch from Body, Normal Position, WCDMA(FDD V) Ch.4182**

## **Bottom External Ant**

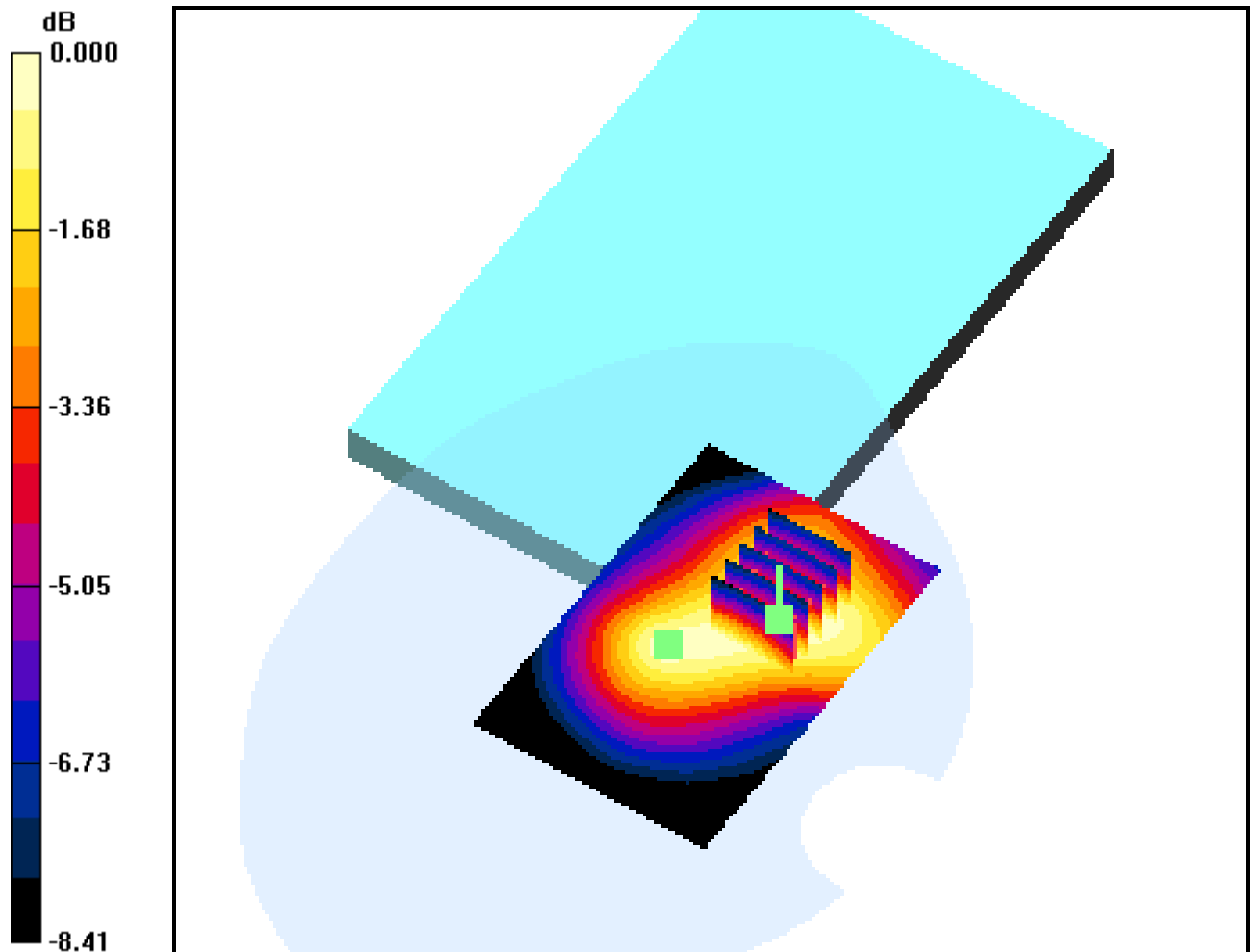
**Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.089 dB

Peak SAR (extrapolated) = 0.200 W/kg

**SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.111 mW/g**



0 dB = 0.172mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.991 \text{ mho/m}$ ;  $\epsilon_r = 53.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

**Touch from Body, Normal Position, WCDMA(FDD V) Ch.4182**

## **Bottom External Ant**

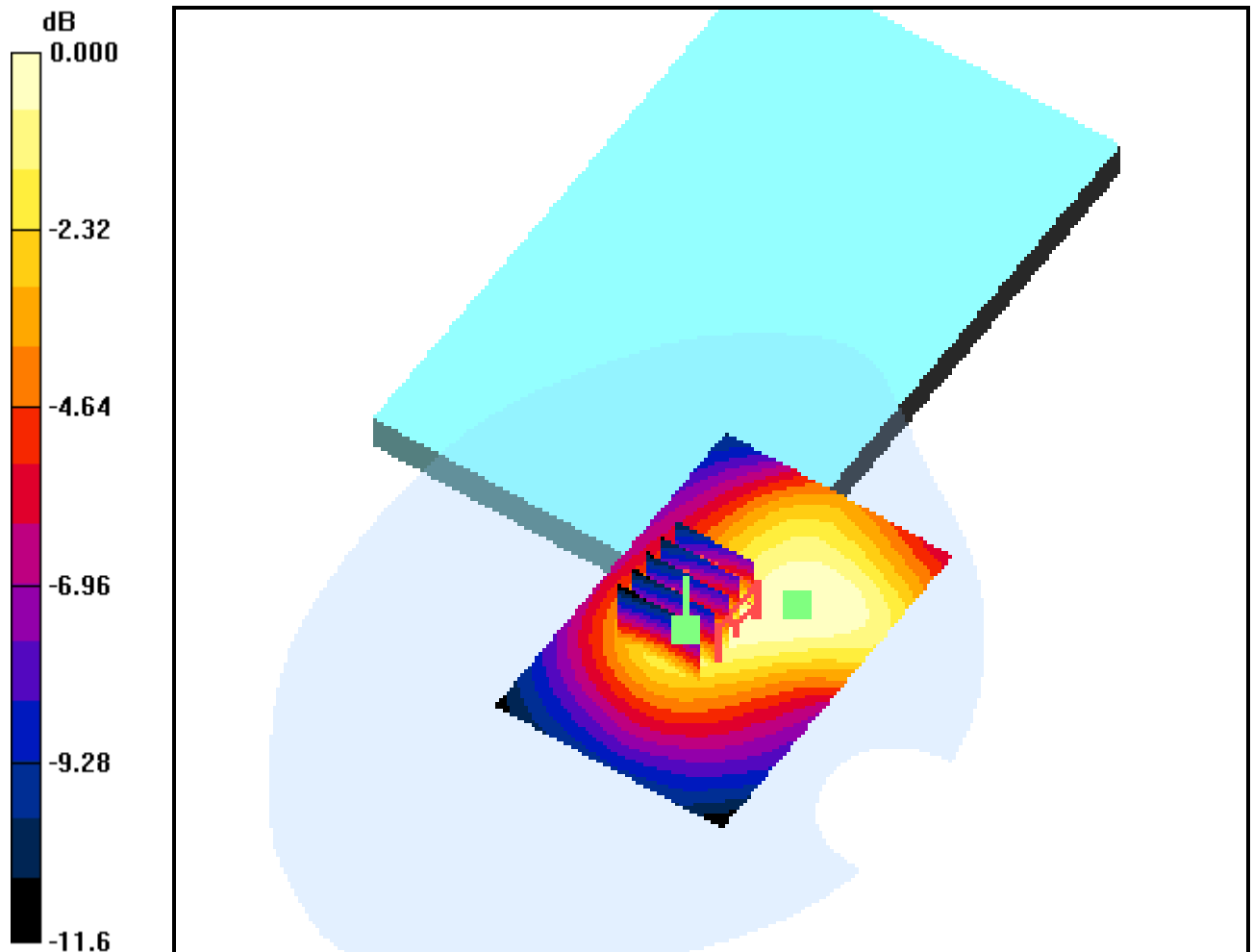
**Area Scan (61x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.089 dB

Peak SAR (extrapolated) = 0.214 W/kg

**SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.095 mW/g**



0 dB = 0.170mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-09-17; Ambient Temp: 21.5; Tissue Temp: 21.2

**Touch from Body, Tablet Mode, WCDMA(FDDV) Ch.4182**

## **Side External Ant**

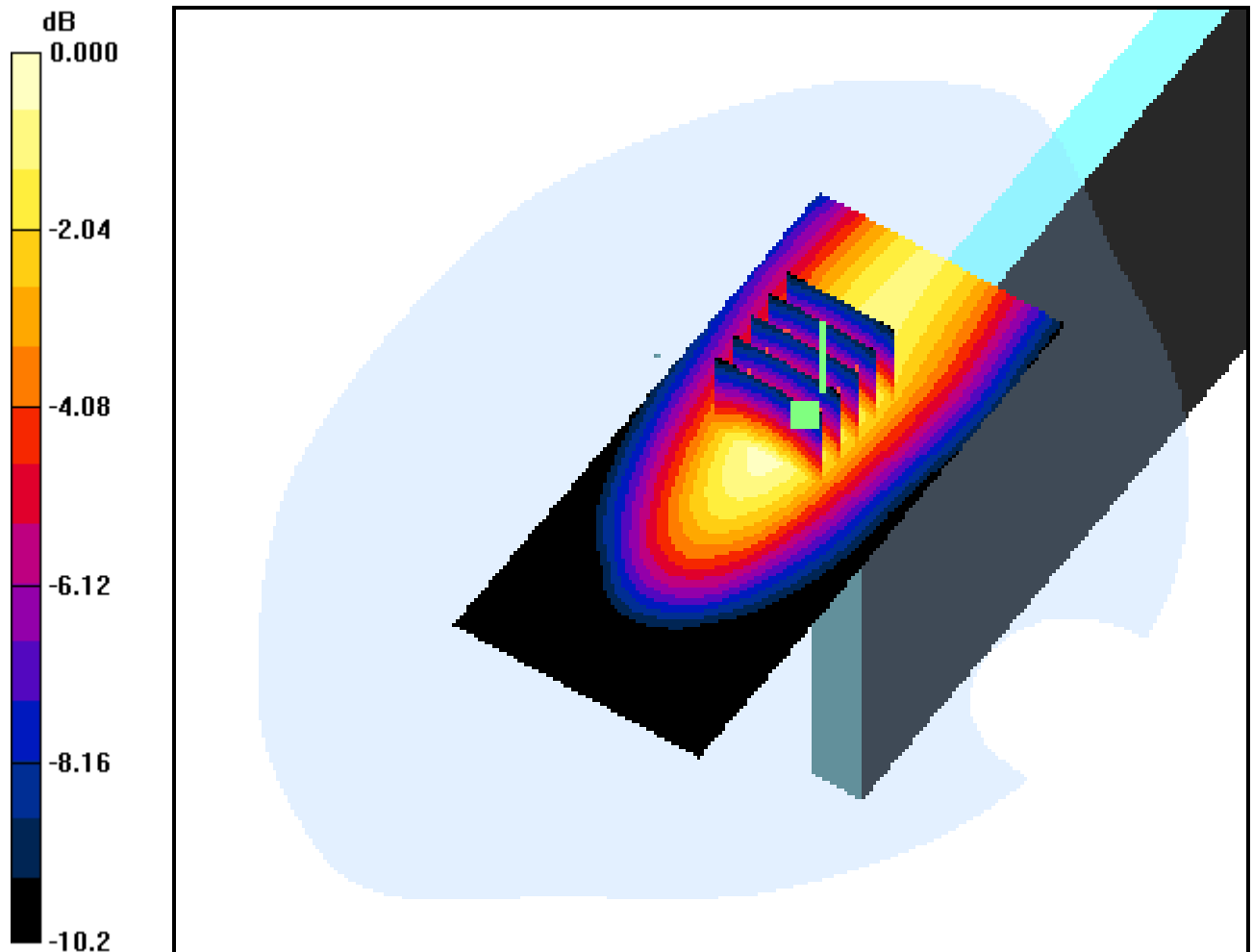
**Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.181 W/kg

**SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.080 mW/g**



0 dB = 0.146mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM with 835MHz; Type: SAM; Serial: TP-1223  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-09-17; Ambient Temp: 21.5; Tissue Temp: 21.2

**Touch from Body, Tablet Mode, WCDMA(FDDV) Ch.4182**

## **Bottom External Ant**

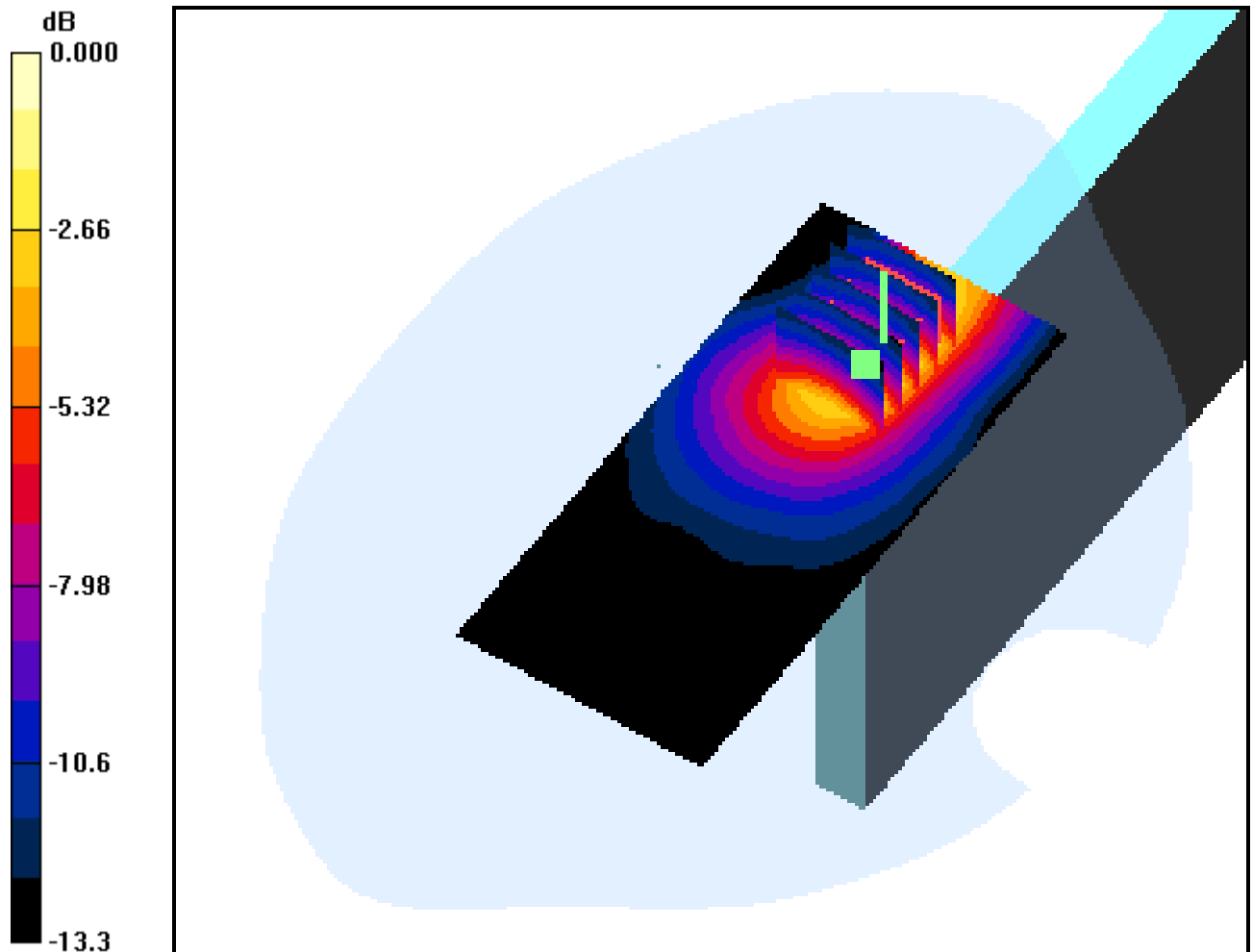
**Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.253 dB

Peak SAR (extrapolated) = 0.208 W/kg

SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.058 mW/g



0 dB = 0.150mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

**Touch from Body, Normal Position, WCDMA(FDD II) Ch.9262, Ant External**

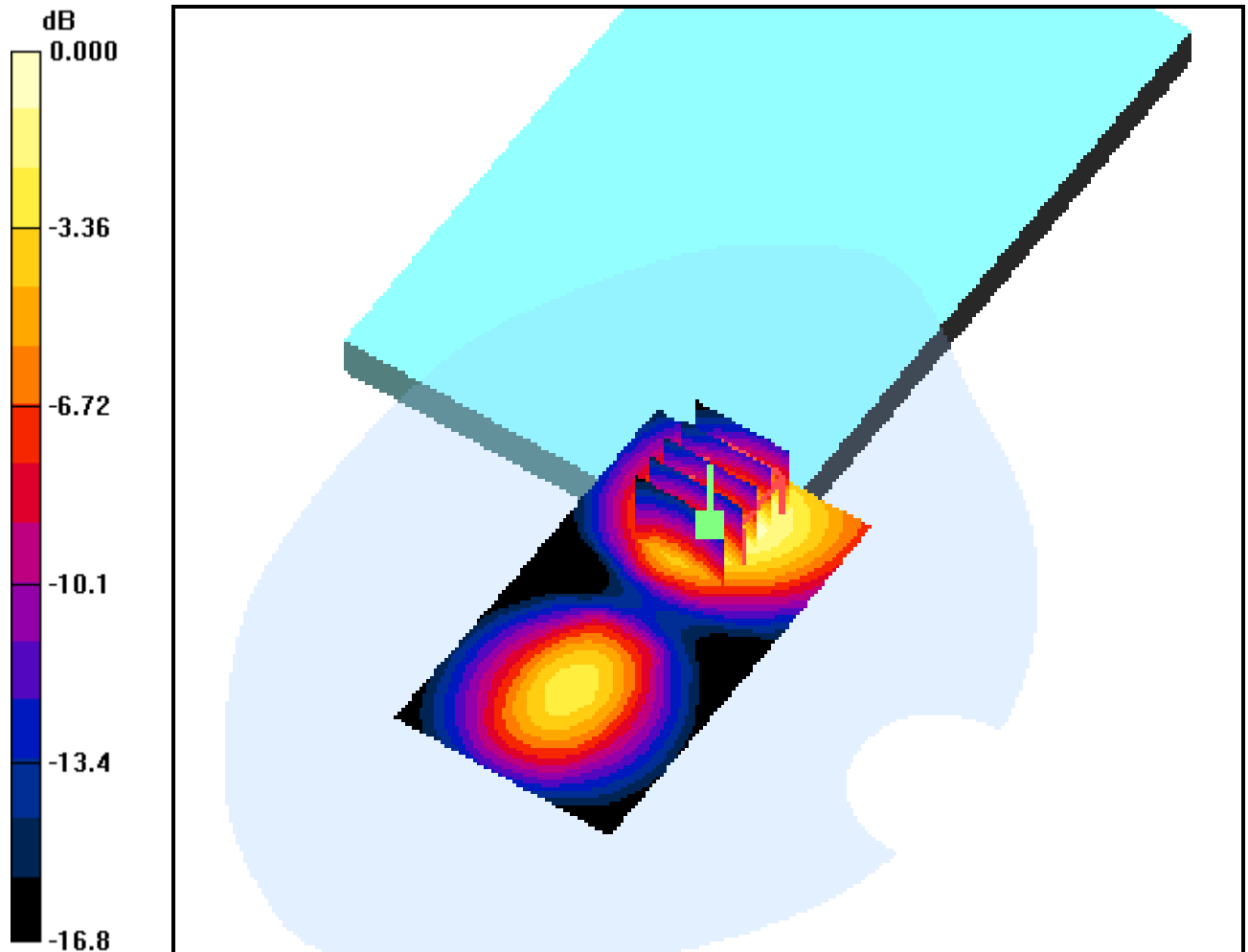
**Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.183 dB

Peak SAR (extrapolated) = 1.84 W/kg

**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.645 mW/g**



0 dB = 1.41mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.56 \text{ mho/m}$ ;  $\epsilon_r = 52.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

**Touch from Body, Normal Position, WCDMA(FDD II) Ch.9400, Ant External**

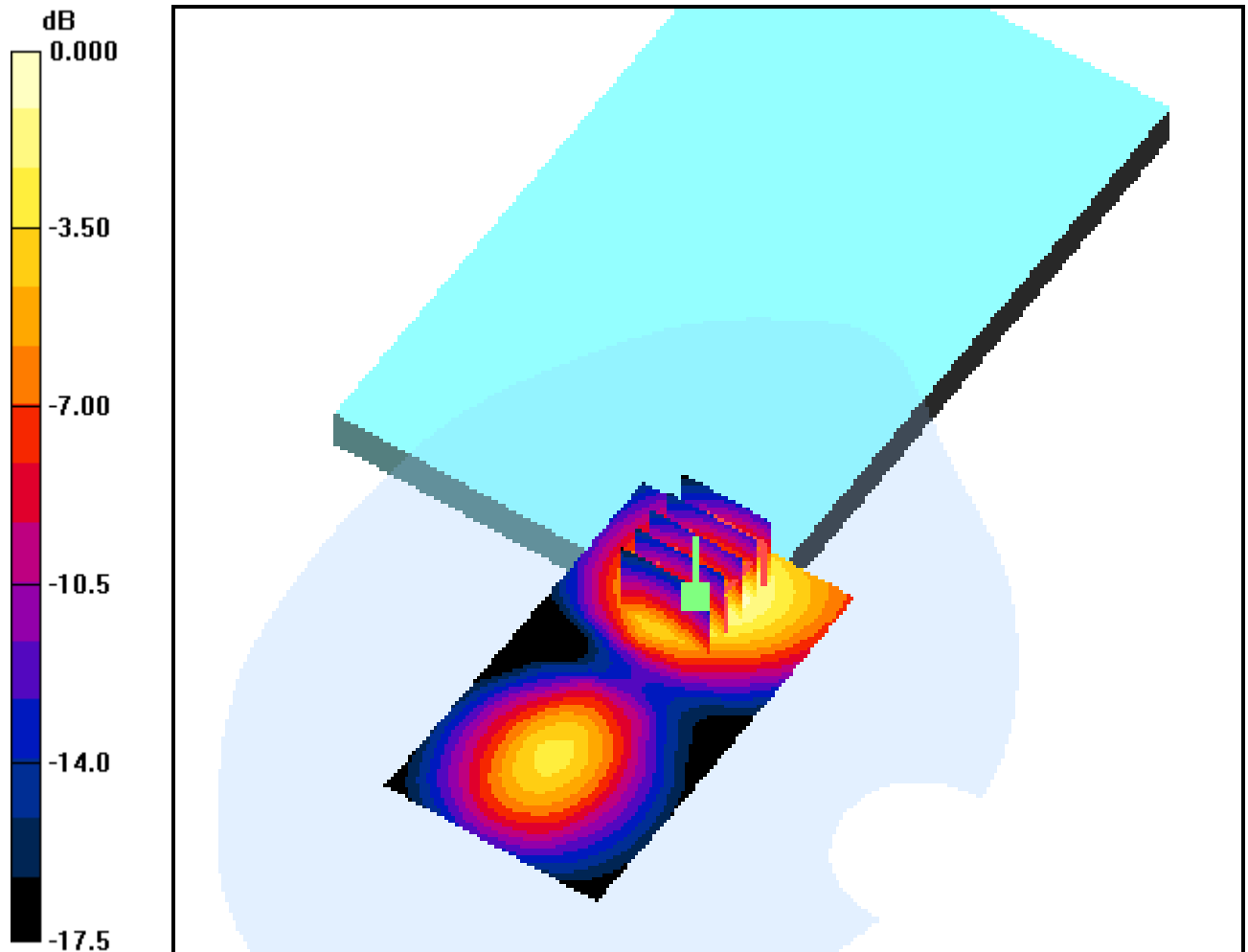
**Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.294 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.619 mW/g**



0 dB = 1.36mW/g



# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1907.6 \text{ MHz}$ ;  $\sigma = 1.59 \text{ mho/m}$ ;  $\epsilon_r = 52.3$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

**Touch from Body, Normal Position, WCDMA(FDD II) Ch.9538, Ant External**

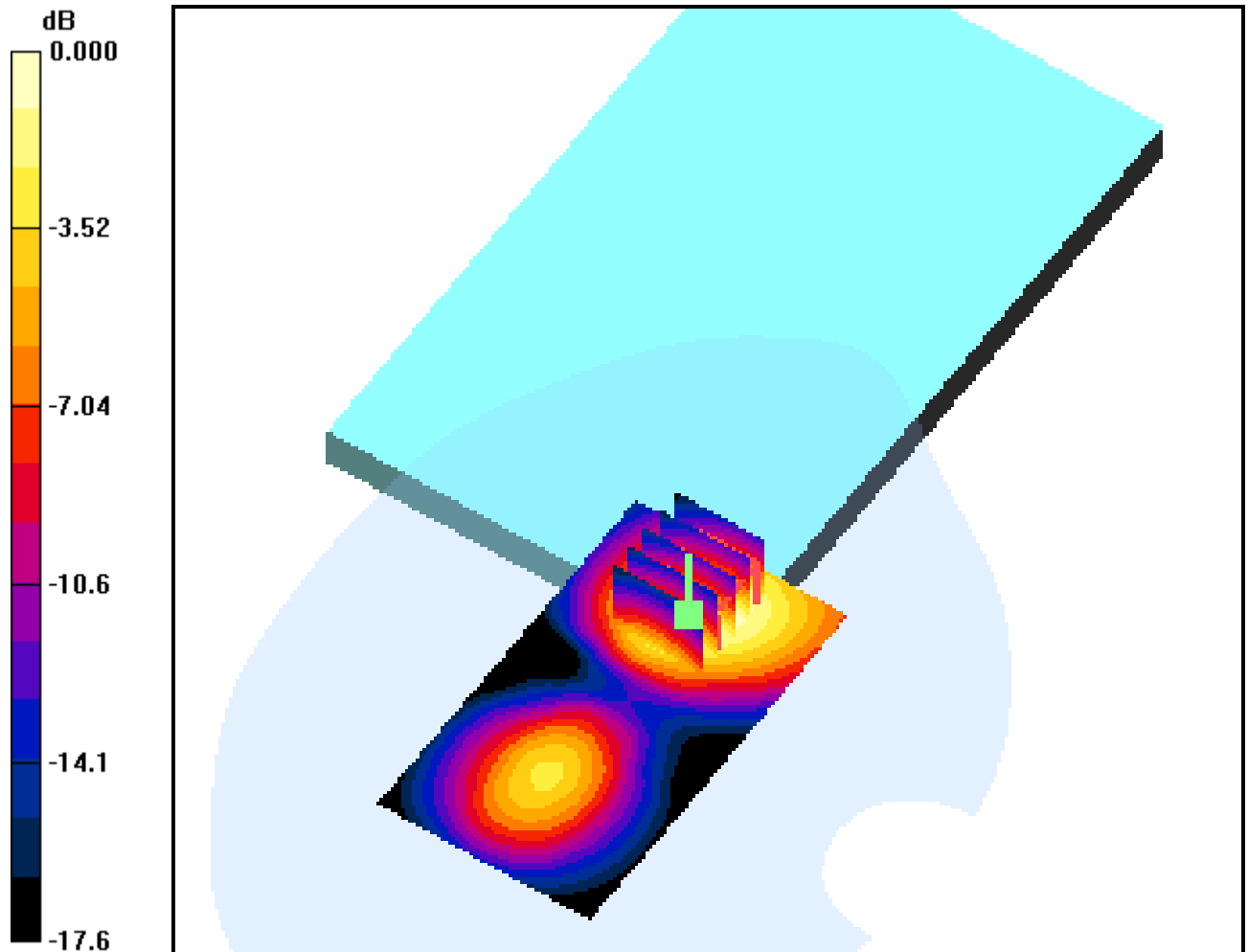
**Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.280 dB

Peak SAR (extrapolated) = 1.75 W/kg

**SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.604 mW/g**



0 dB = 1.33mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

**Touch from Body, Normal Position, WCDMA(FDD II) Ch.9262**

**Insert one step in External Ant**

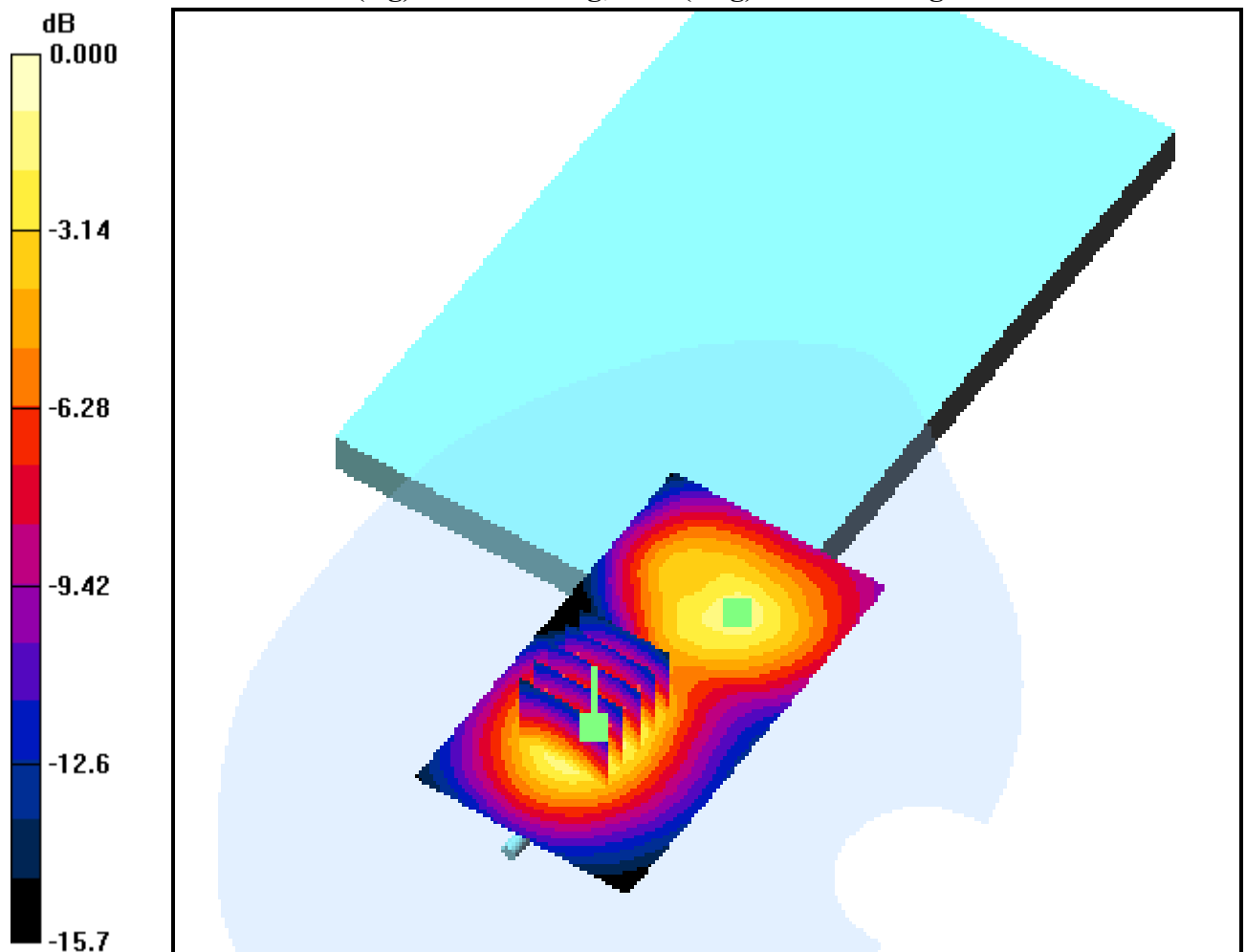
**Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.065 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.643 mW/g; SAR(10 g) = 0.381 mW/g**



0 dB = 0.803mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

**Touch from Body, Normal Position, WCDMA(FDD II) Ch.9262**

**Insert one step in External Ant**

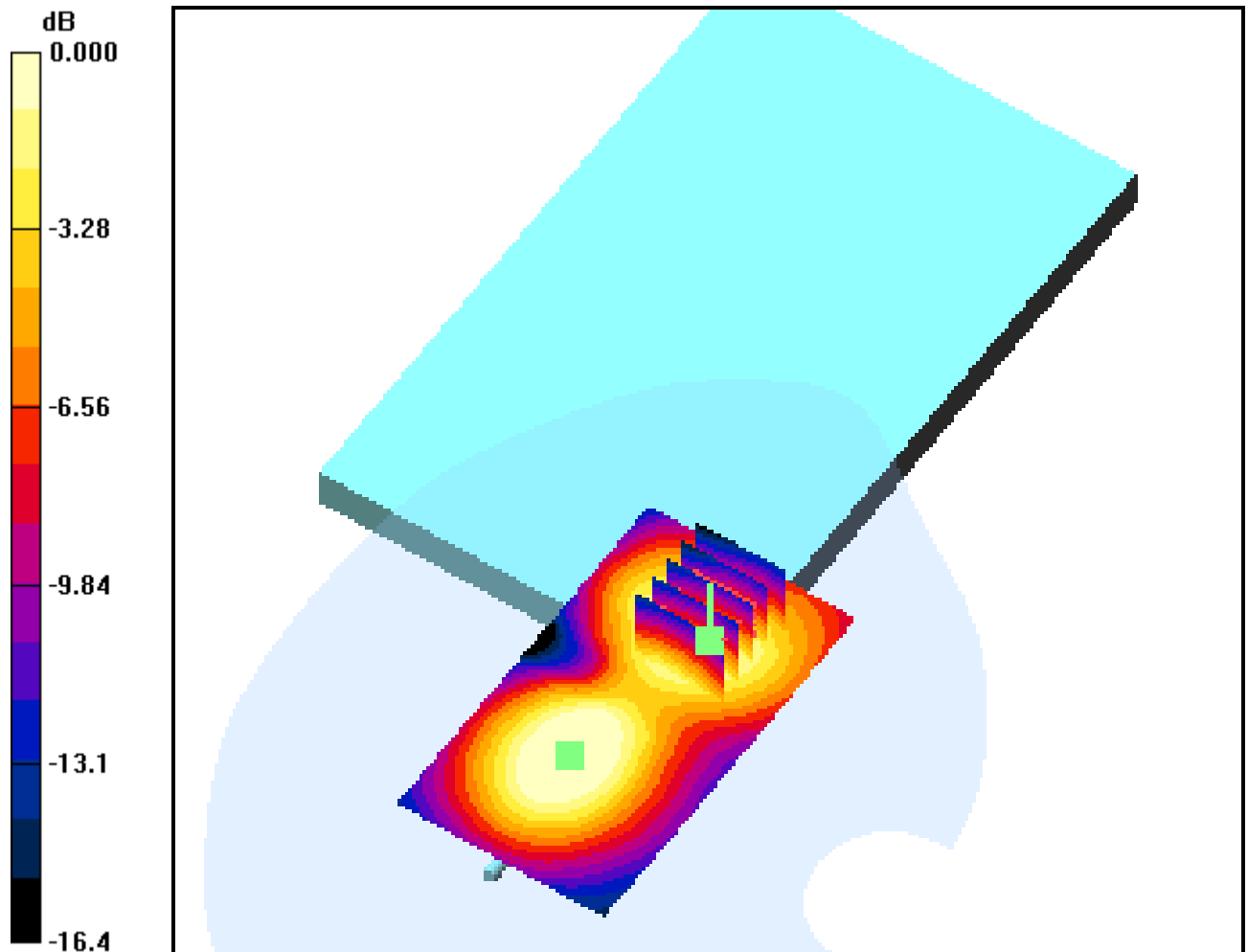
**Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.725 W/kg

**SAR(1 g) = 0.455 mW/g; SAR(10 g) = 0.267 mW/g**



0 dB = 0.570mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

**Touch from Body, Normal Position, WCDMA(FDD II) Ch.9262**

**Insert two step in External Ant**

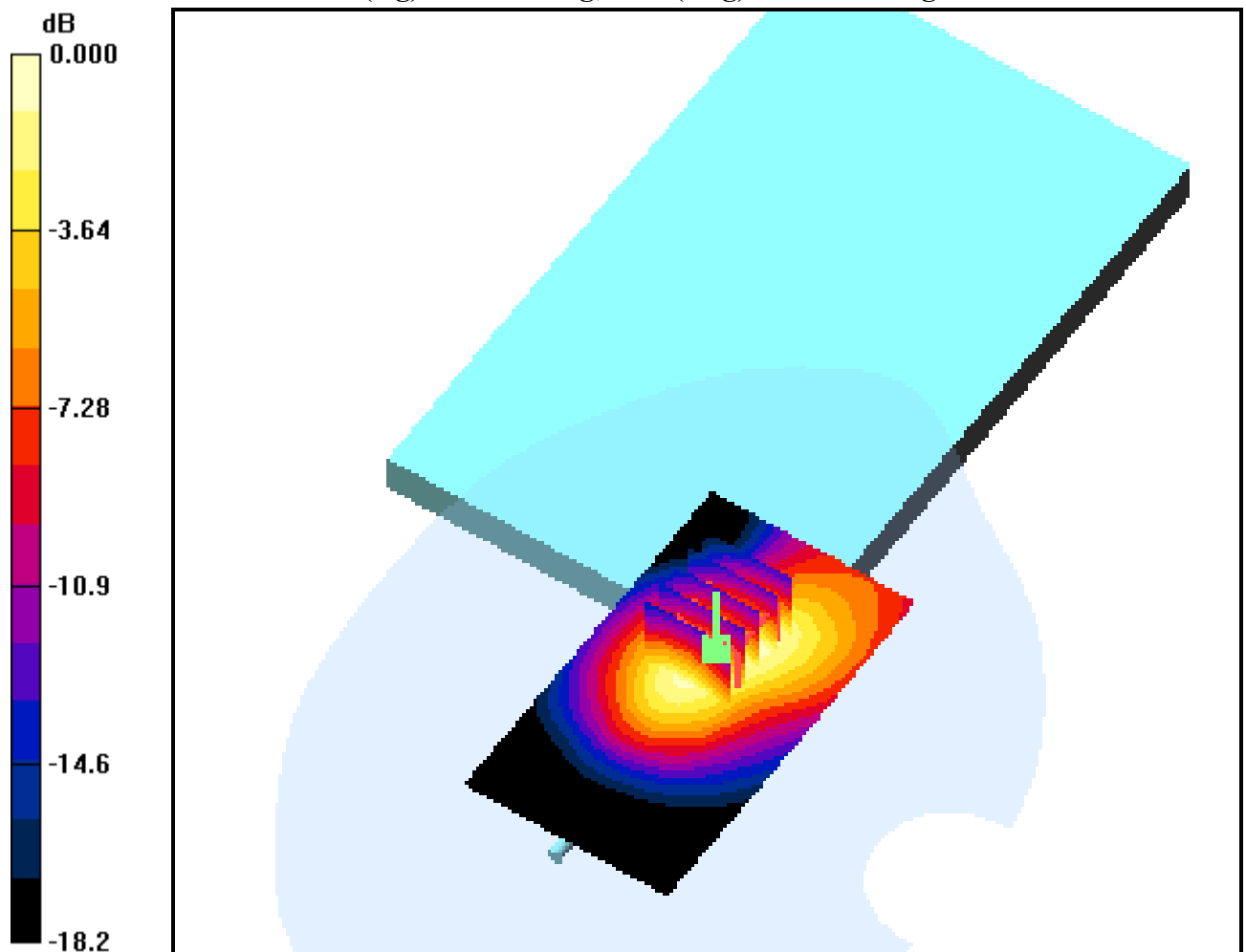
**Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.207 dB

Peak SAR (extrapolated) = 1.84 W/kg

**SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.617 mW/g**



0 dB = 1.33mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

**Touch from Body, Normal Position, WCDMA(FDD II) Ch.9262**

## **Side External Ant**

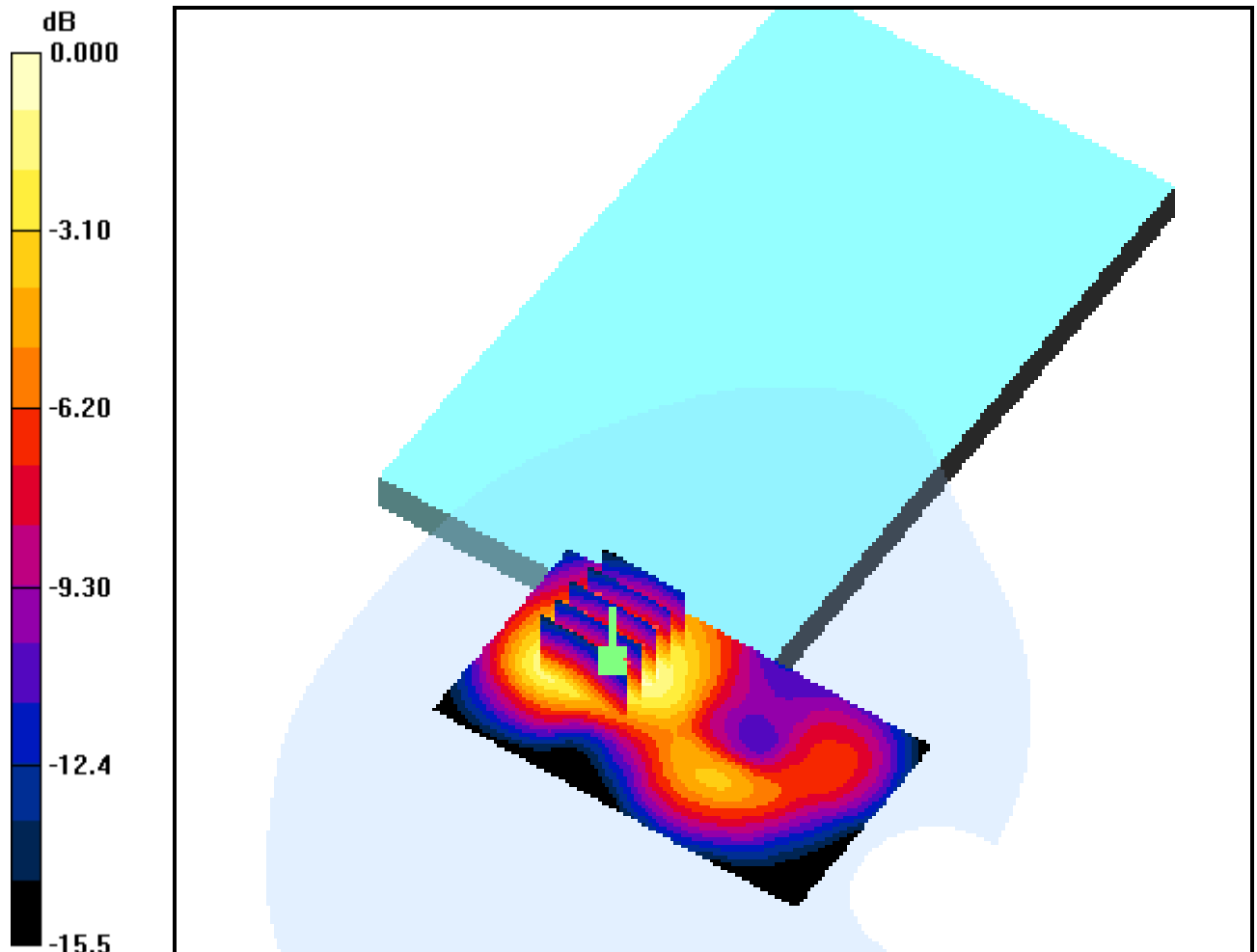
**Area Scan (91x51x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.123 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.889 mW/g; SAR(10 g) = 0.530 mW/g**



0 dB = 1.11mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

**Touch from Body, Normal Position, WCDMA(FDD II) Ch.9262**

## **Bottom External Ant**

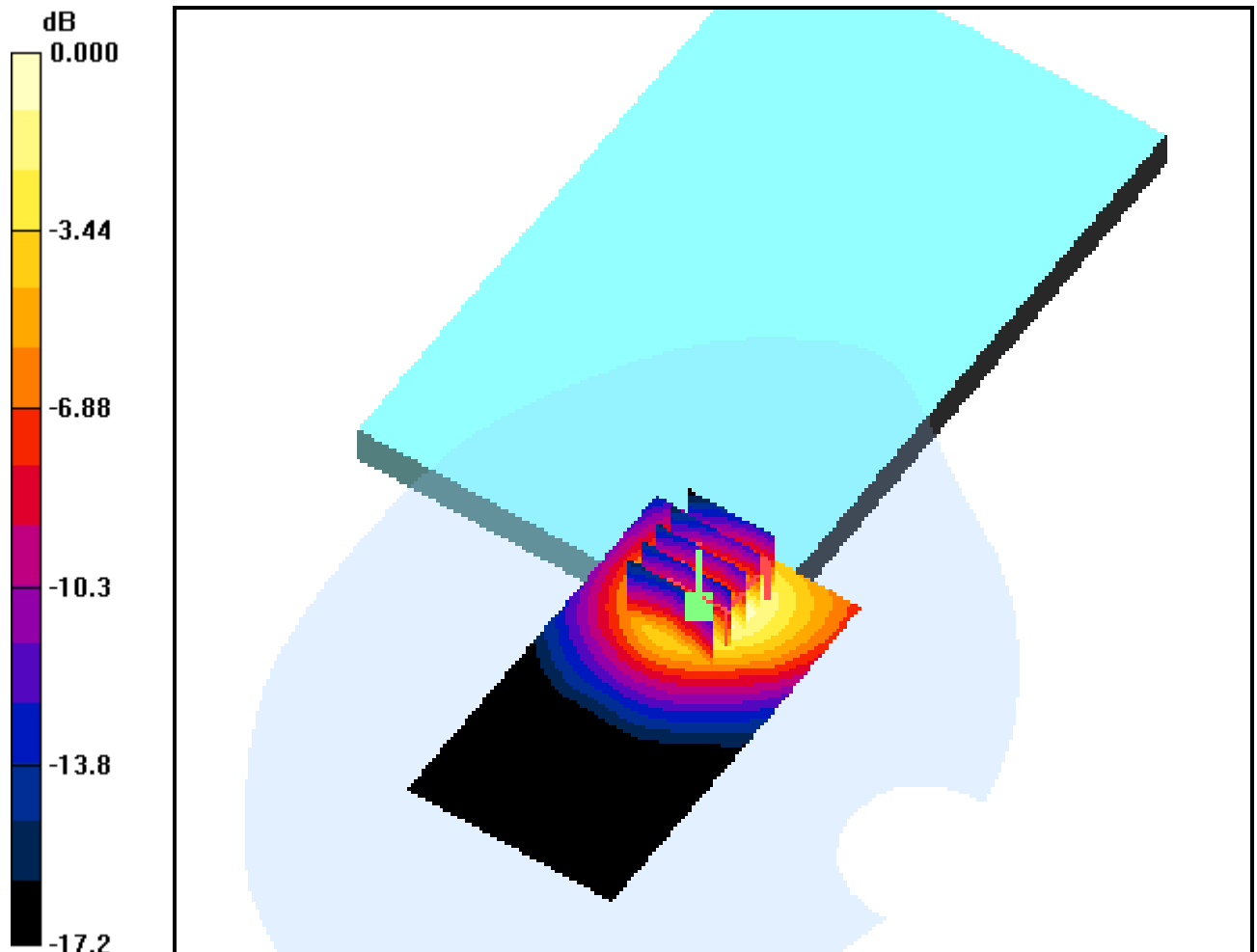
**Area Scan (51x91x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.135 dB

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 0.878 mW/g; SAR(10 g) = 0.511 mW/g**



0 dB = 1.11mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 52$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

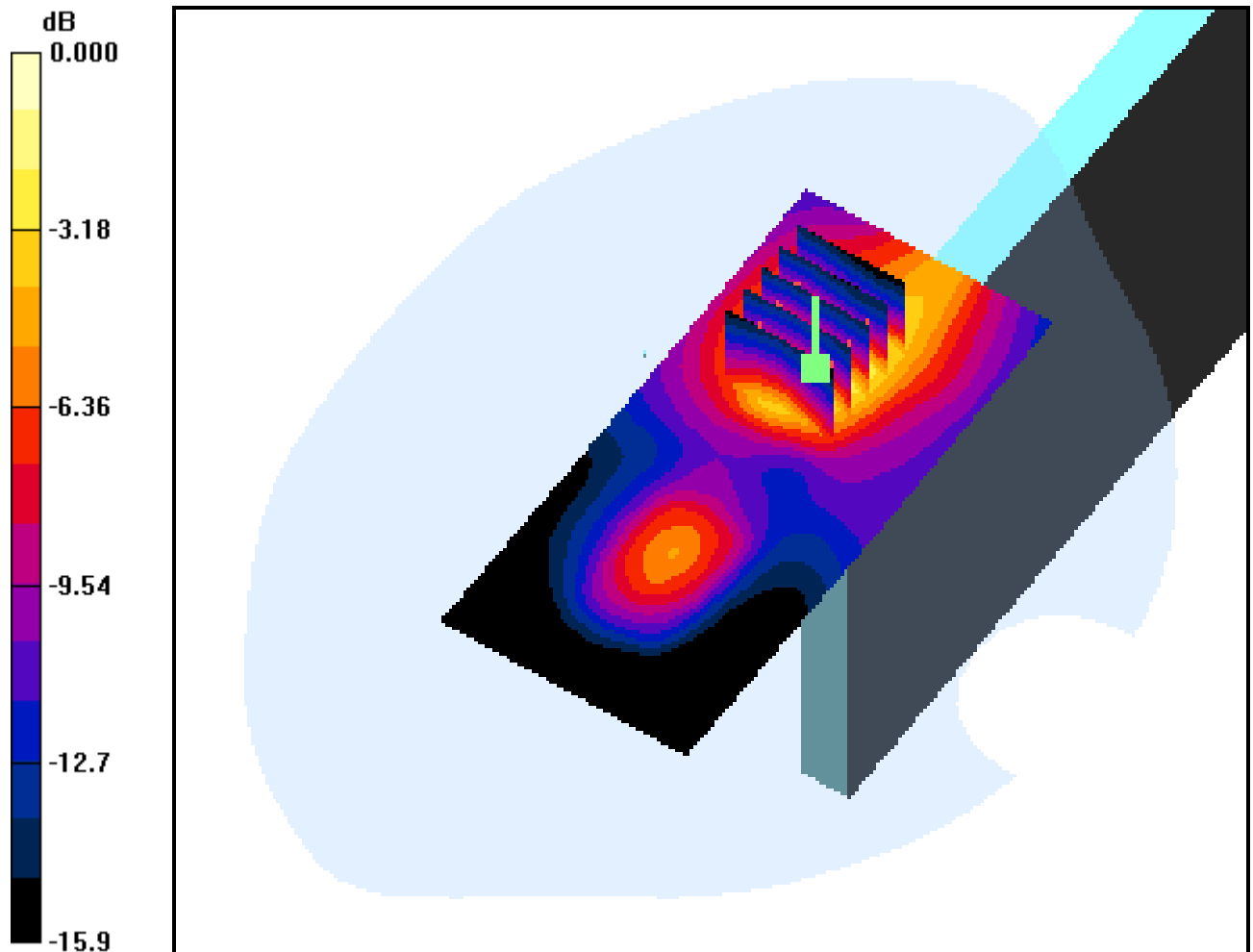
Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-09-17; Ambient Temp: 21.5; Tissue Temp: 21.2

**Touch from Body, Tablet Mode, WCDMA(FDDII) Ch.9400**

## **Side External Ant**

**Area Scan (51x111x1):** 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 = -0.296 dB  
Peak SAR (extrapolated) = 0.779 W/kg  
**SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.202 mW/g**



0 dB = 0.540mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 52$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

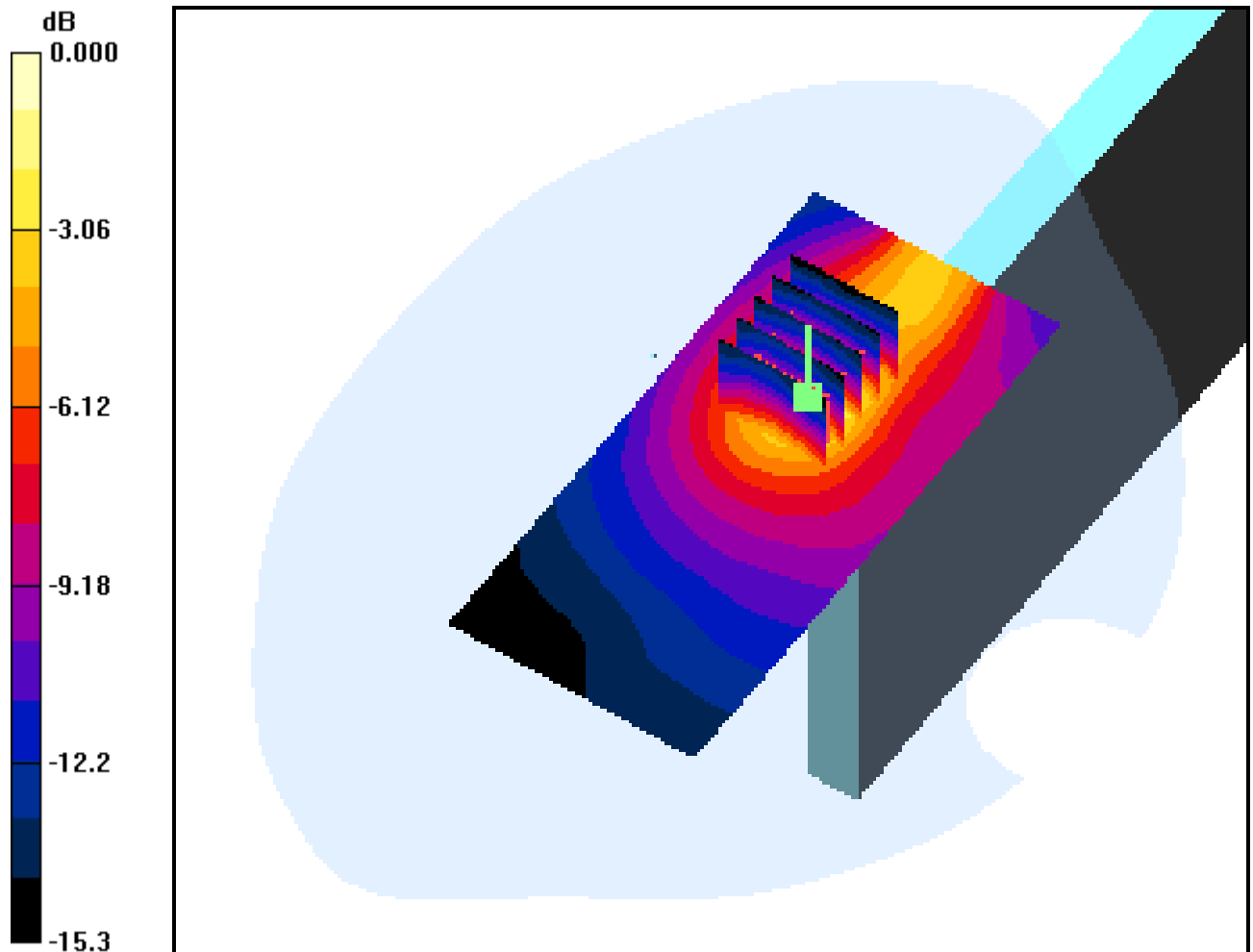
Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-09-17; Ambient Temp: 21.5; Tissue Temp: 21.2

**Touch from Body, Tablet Mode, WCDMA(FDDII) Ch.9400**

## **Bottom External Ant**

**Scan (51x111x1):** 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 = -0.309 dB  
Peak SAR (extrapolated) = 0.592 W/kg  
**SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.150 mW/g**



0 dB = 0.407mW/g



# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836.4 \text{ MHz}$ ;  $\sigma = 0.991 \text{ mho/m}$ ;  $\epsilon_r = 53.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(8.63, 8.63, 8.63); Calibrated: 2009-01-14; Electronics: DAE3 Sn519

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

Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-07; Ambient Temp: 20.5; Tissue Temp: 20.3

**Touch from Body, Normal Position, WCDMA(FDD V) Ch.4182**

**Insert one step in External Ant**

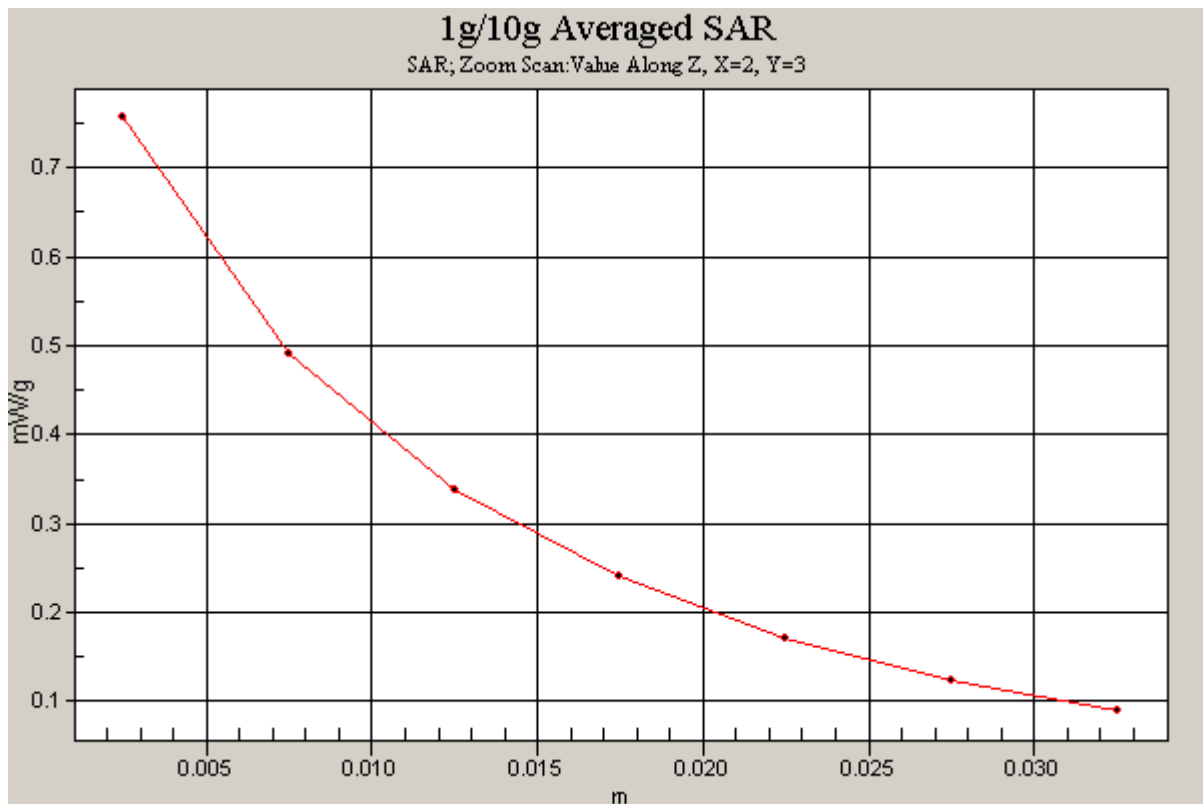
**Area Scan (51x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.072 dB

Peak SAR (extrapolated) = 0.934 W/kg

**SAR(1 g) = 0.621 mW/g; SAR(10 g) = 0.418 mW/g**



# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: UMTS1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 52.7$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(7.45, 7.45, 7.45); Calibrated: 2009-01-14; Electronics: DAE3 Sn519  
Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1224  
Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

Test Date: 2009-08-06; Ambient Temp: 21.2; Tissue Temp: 21.0

**Touch from Body, Normal Position, WCDMA(FDD II) Ch.9262, Ant External**

**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 = -0.183 dB

Peak SAR (extrapolated) = 1.84 W/kg

**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.645 mW/g**

