

# 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:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.85 \text{ mho/m}$ ;  $\epsilon_r = 38.7$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.92, 6.92, 6.92); 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: 2009-08-10; Ambient Temp: 23.2; Tissue Temp: 22.4

## **Dipole Validation**

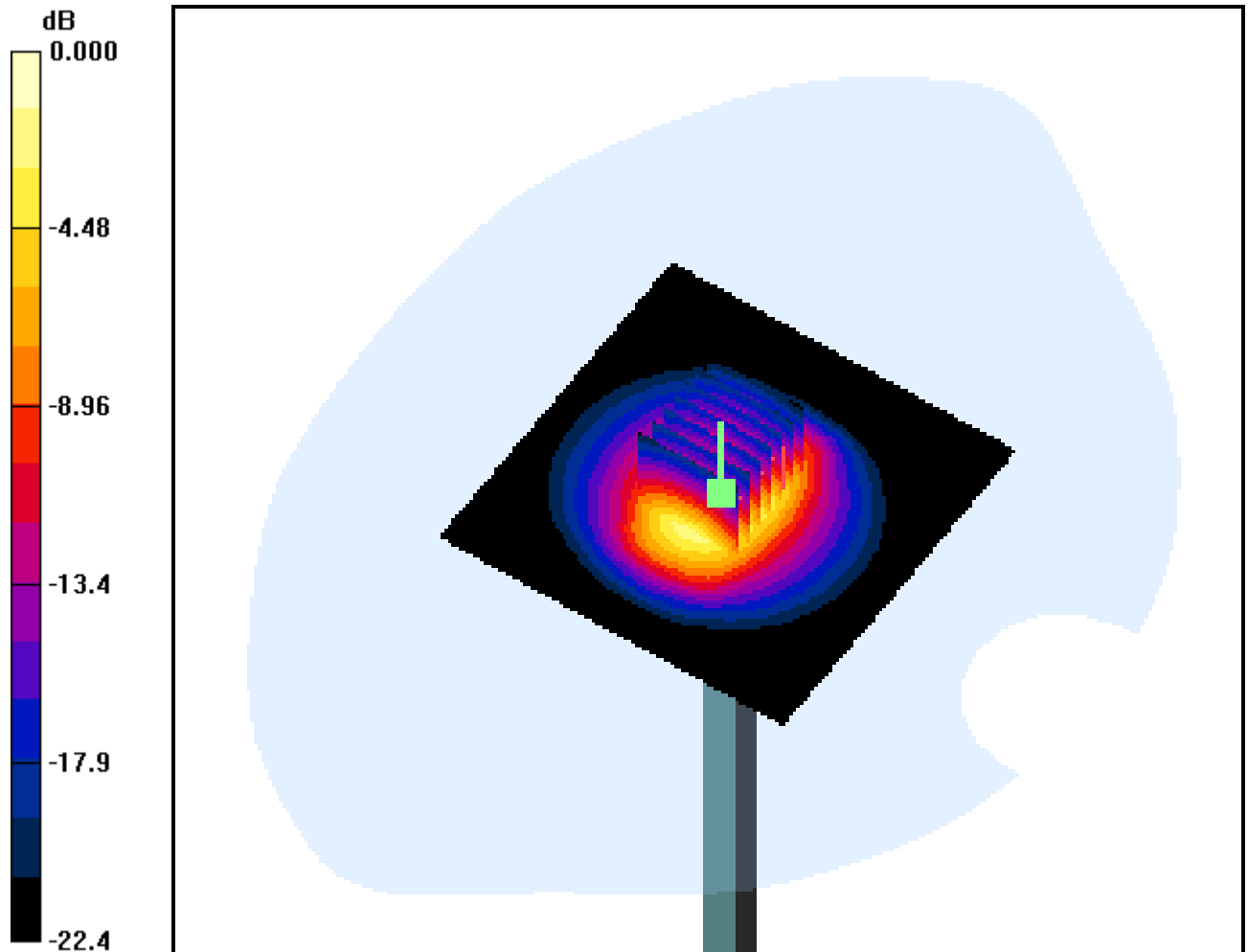
**Area Scan (71x71x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.055 dB

Peak SAR (extrapolated) = 28.1 W/kg

**SAR(1 g) = 13.3 mW/g; SAR(10 g) = 6.14 mW/g**



0 dB = 14.9mW/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:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.85 \text{ mho/m}$ ;  $\epsilon_r = 38.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.92, 6.92, 6.92); 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**

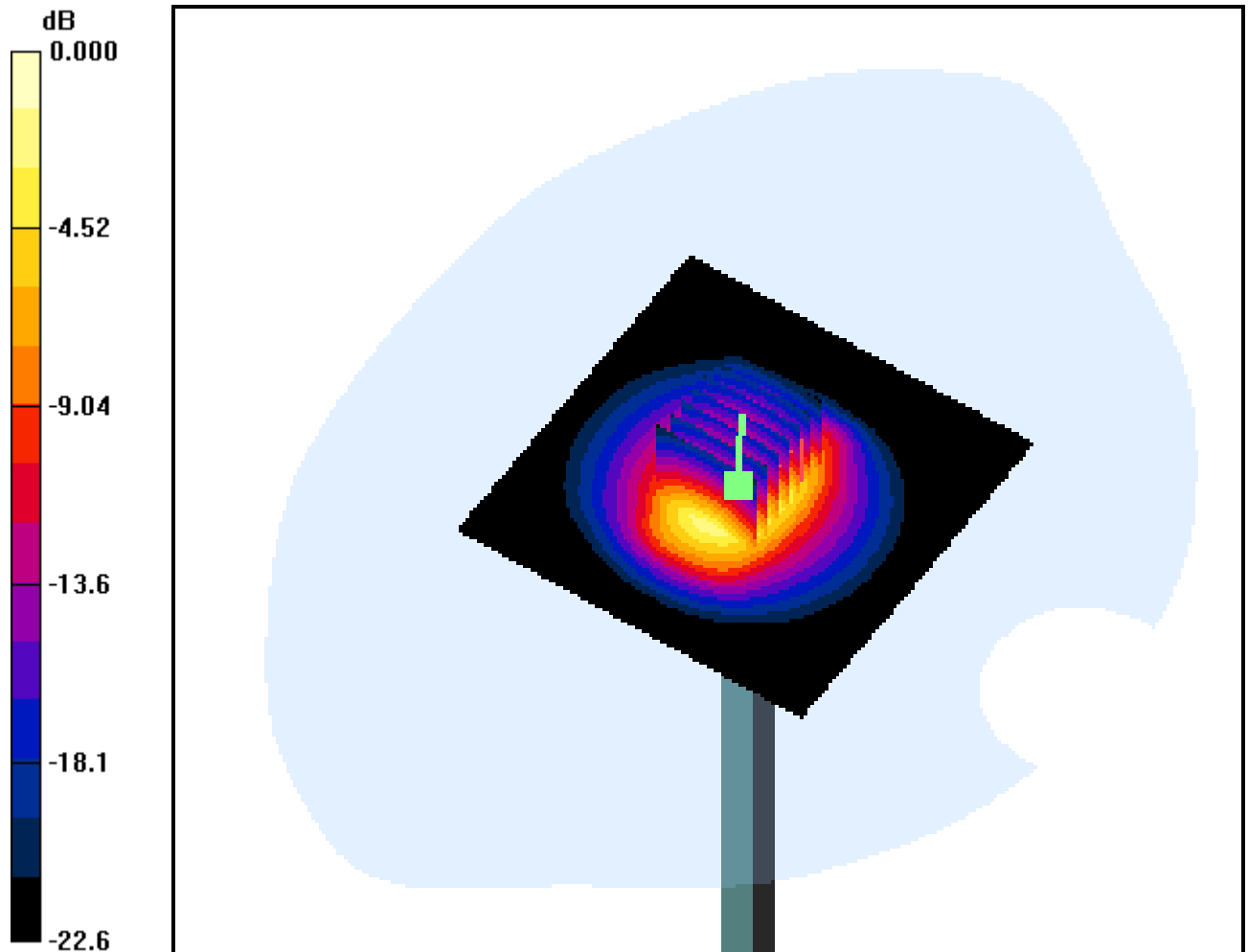
**Area Scan (71x71x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.031 dB

Peak SAR (extrapolated) = 28.5 W/kg

**SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.17 mW/g**



0 dB = 15.1mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: W-LAN; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.97 \text{ mho/m}$ ;  $\epsilon_r = 51.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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: 2009-08-10; Ambient Temp: 23.2; Tissue Temp: 22.4

## **Touch from Body, W-LAN(802.11b)Ch.1, Ant Fixed, Battery Mode**

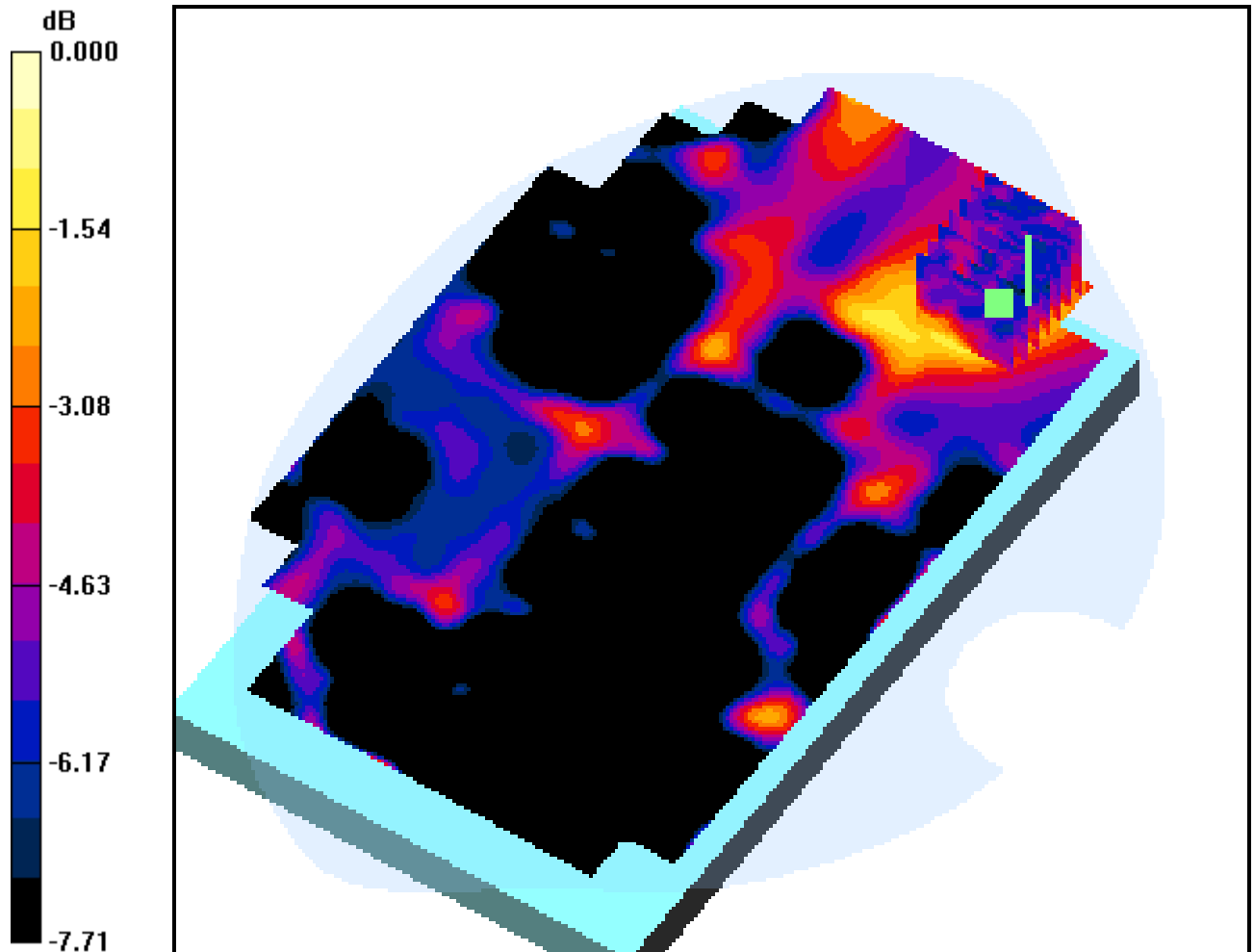
**Area Scan (101x161x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.142 dB

Peak SAR (extrapolated) = 0.018 W/kg

**SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00716 mW/g**



0 dB = 0.014mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 2.01 \text{ mho/m}$ ;  $\epsilon_r = 51.3$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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: 2009-08-10; Ambient Temp: 23.2; Tissue Temp: 22.4

## **Touch from Body, W-LAN(802.11b)Ch.6, Ant Fixed, Battery Mode**

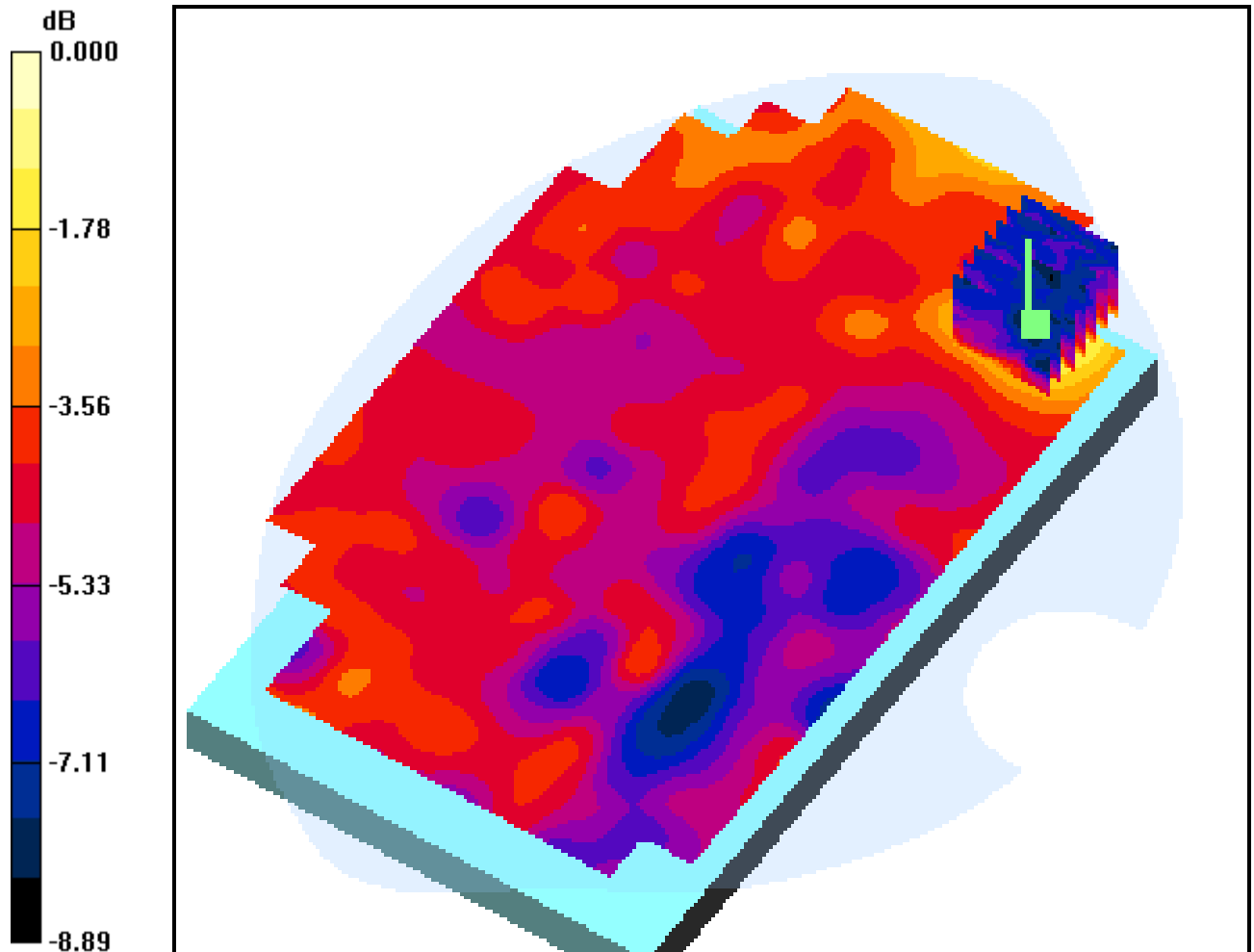
**Area Scan (101x161x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.249 dB

Peak SAR (extrapolated) = 0.026 W/kg

**SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.010 mW/g**



0 dB = 0.022mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

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

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 2.04 \text{ mho/m}$ ;  $\epsilon_r = 51.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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: 2009-08-10; Ambient Temp: 23.2; Tissue Temp: 22.4

## **Touch from Body, W-LAN(802.11b)Ch.11, Ant Fixed, Battery Mode**

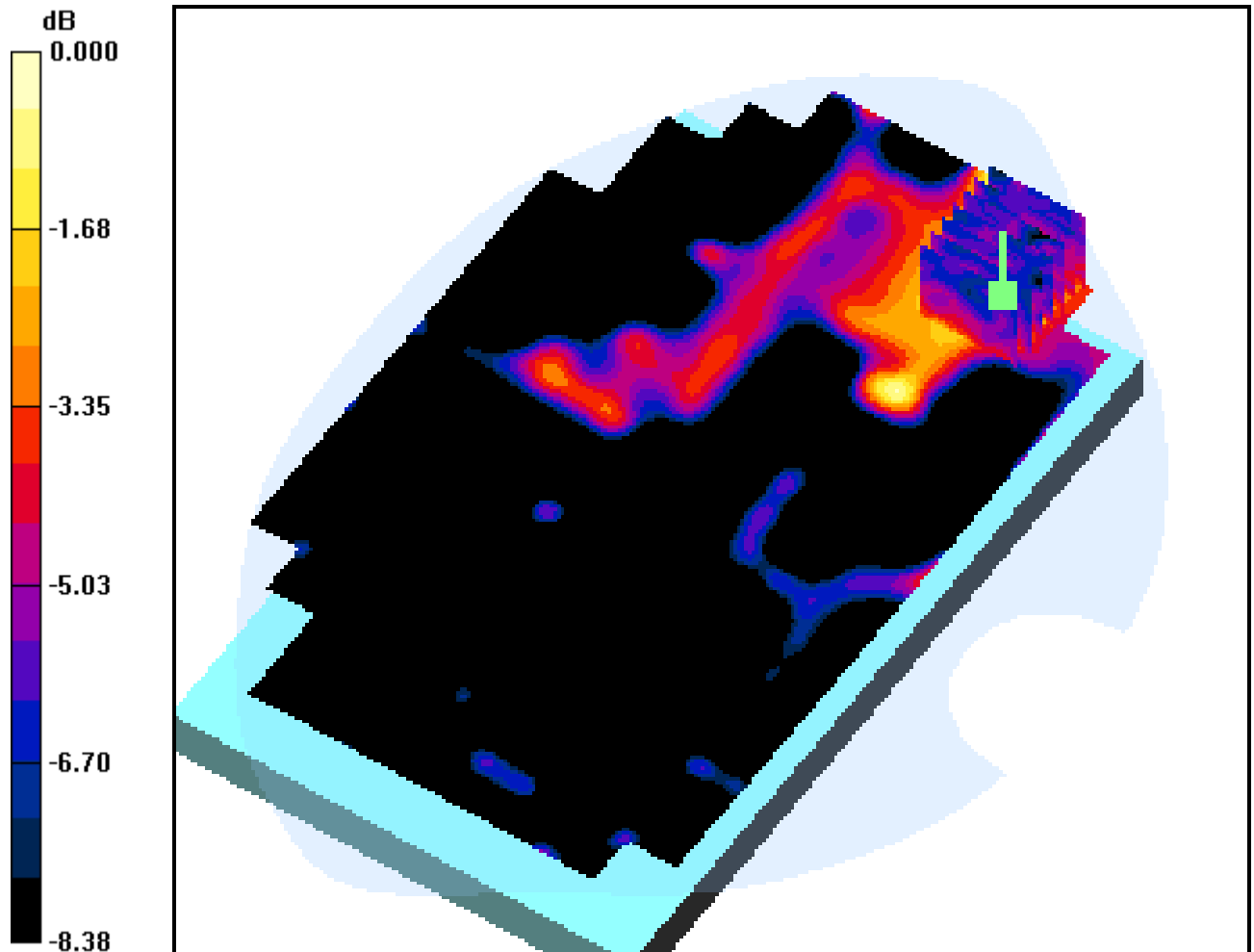
**Area Scan (101x161x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.022 W/kg

**SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00712 mW/g**



0 dB = 0.015mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 2.01 \text{ mho/m}$ ;  $\epsilon_r = 51.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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: 2009-08-10; Ambient Temp: 23.2; Tissue Temp: 22.4

## **Touch from Body, W-LAN(802.11b)Ch.6+B/T, Ant Fixed, Battery Mode**

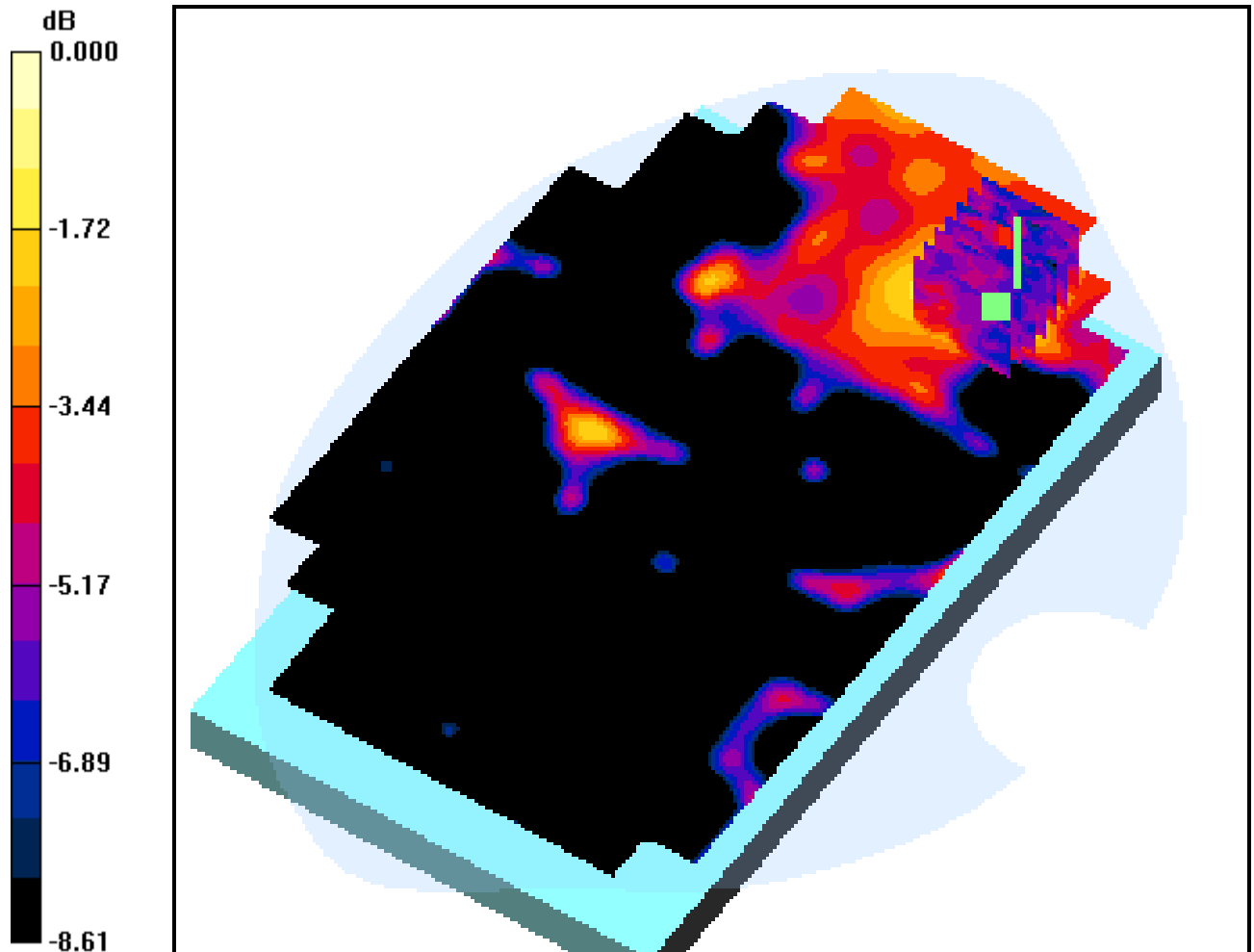
**Area Scan (101x161x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.229 dB

Peak SAR (extrapolated) = 0.025 W/kg

**SAR(1 g) = 0.00952 mW/g; SAR(10 g) = 0.00606 mW/g**



0 dB = 0.013mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: W-LAN; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 52.2$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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, W-LAN(802.11b)Ch.1, Ant Fixed**

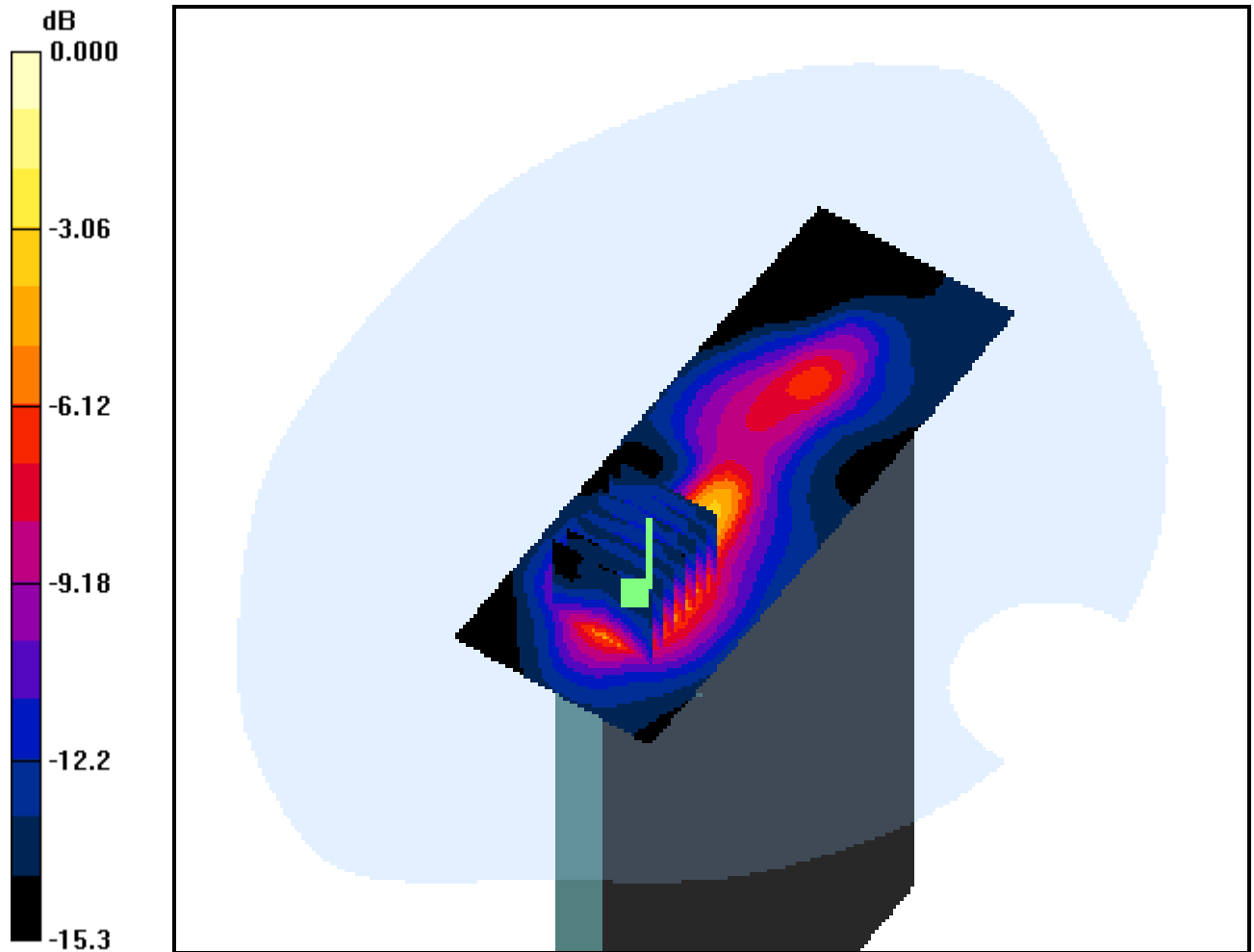
**Area Scan (41x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.264 dB

Peak SAR (extrapolated) = 0.409 W/kg

**SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.091 mW/g**



0 dB = 0.276mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 2 \text{ mho/m}$ ;  $\epsilon_r = 52.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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, W-LAN(802.11b)Ch.6, Ant Fixed**

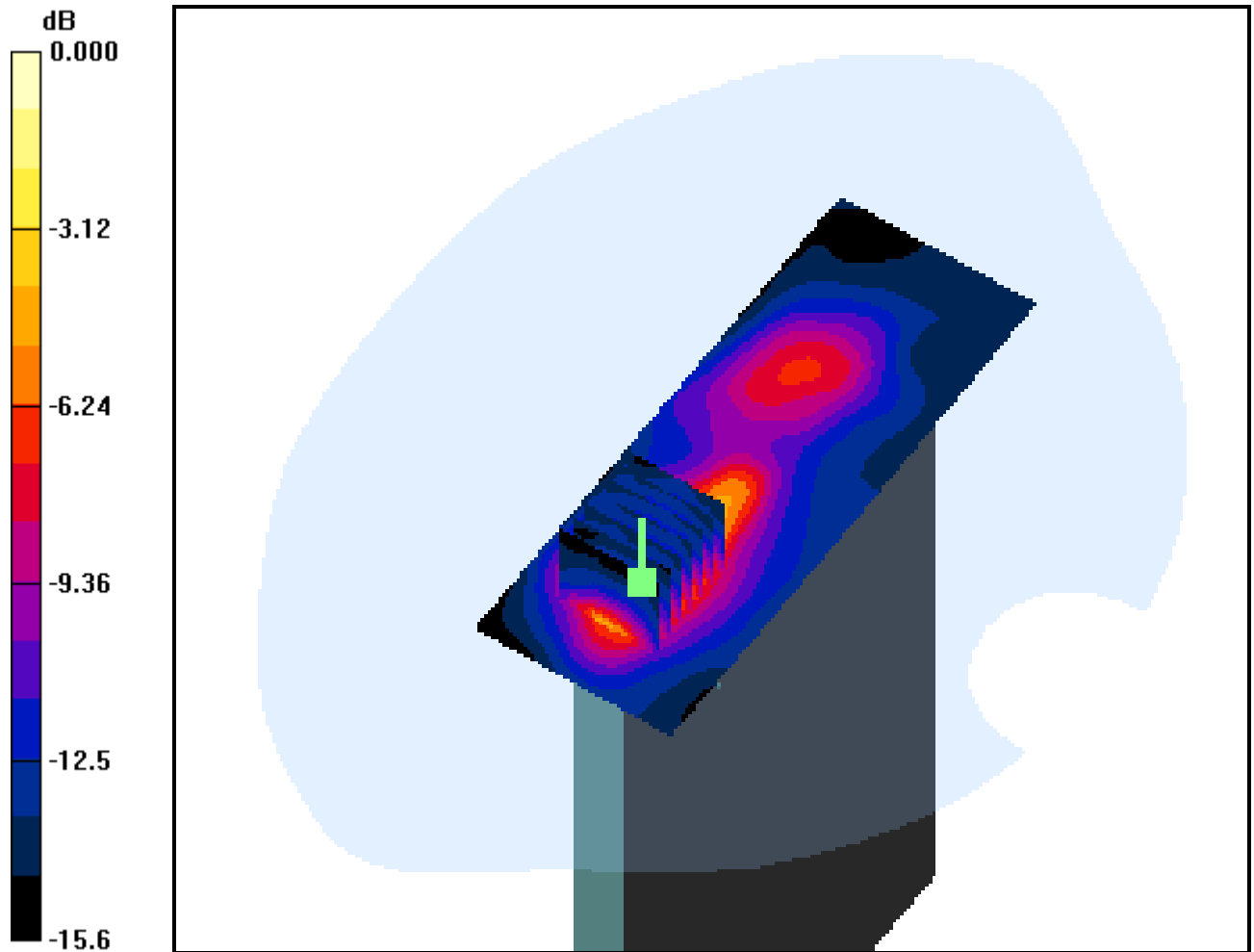
**Area Scan (41x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.365 dB

Peak SAR (extrapolated) = 0.481 W/kg

**SAR(1 g) = 0.223 mW/g; SAR(10 g) = 0.102 mW/g**



0 dB = 0.309mW/g



# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: W-LAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 2.02 \text{ mho/m}$ ;  $\epsilon_r = 51.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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, W-LAN(802.11b)Ch.11, Ant Fixed**

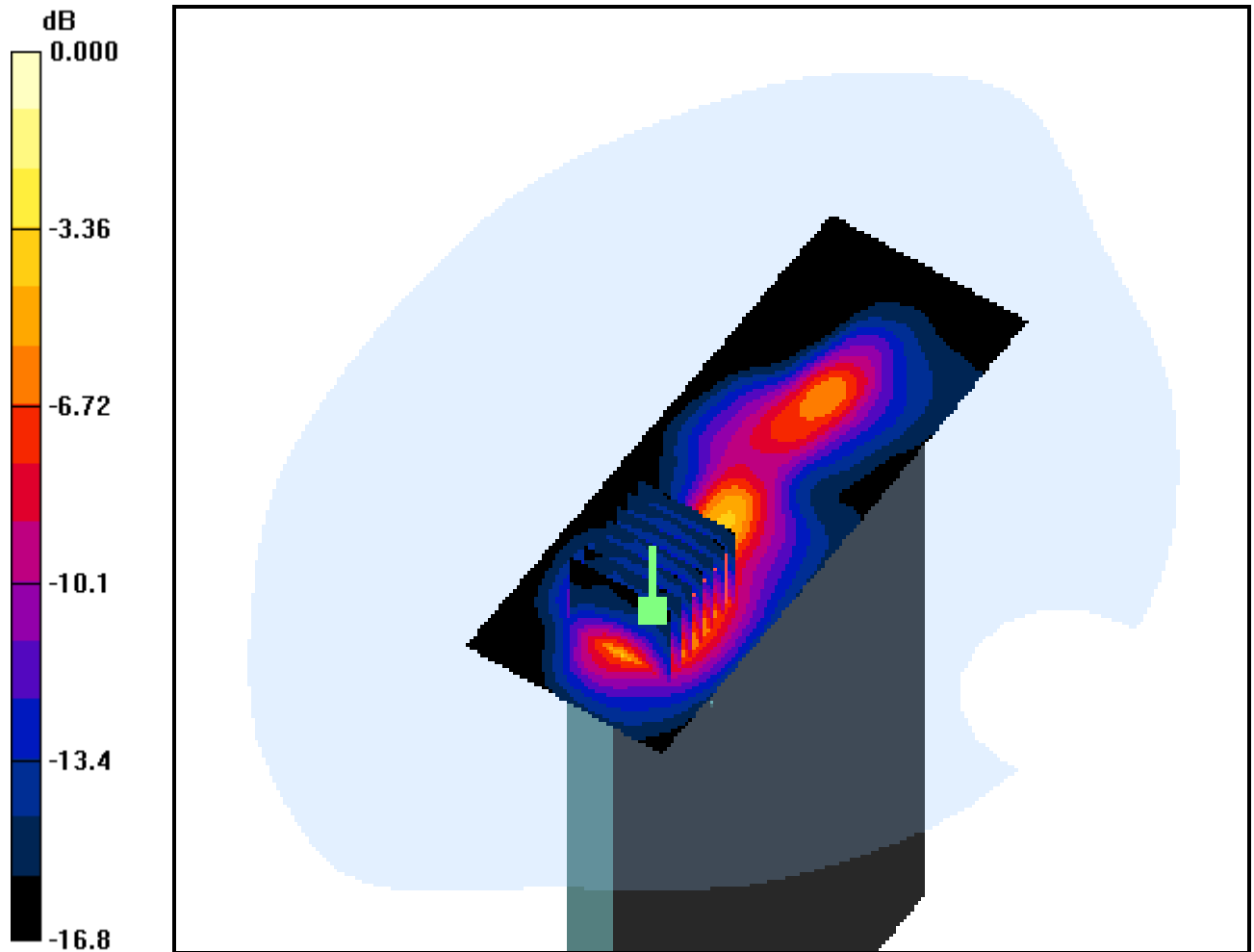
**Area Scan (41x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.206 dB

Peak SAR (extrapolated) = 0.664 W/kg

**SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.132 mW/g**



0 dB = 0.441mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: W-LAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 2.02 \text{ mho/m}$ ;  $\epsilon_r = 51.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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, W-LAN(802.11b)Ch.11+BT, Ant Fixed**

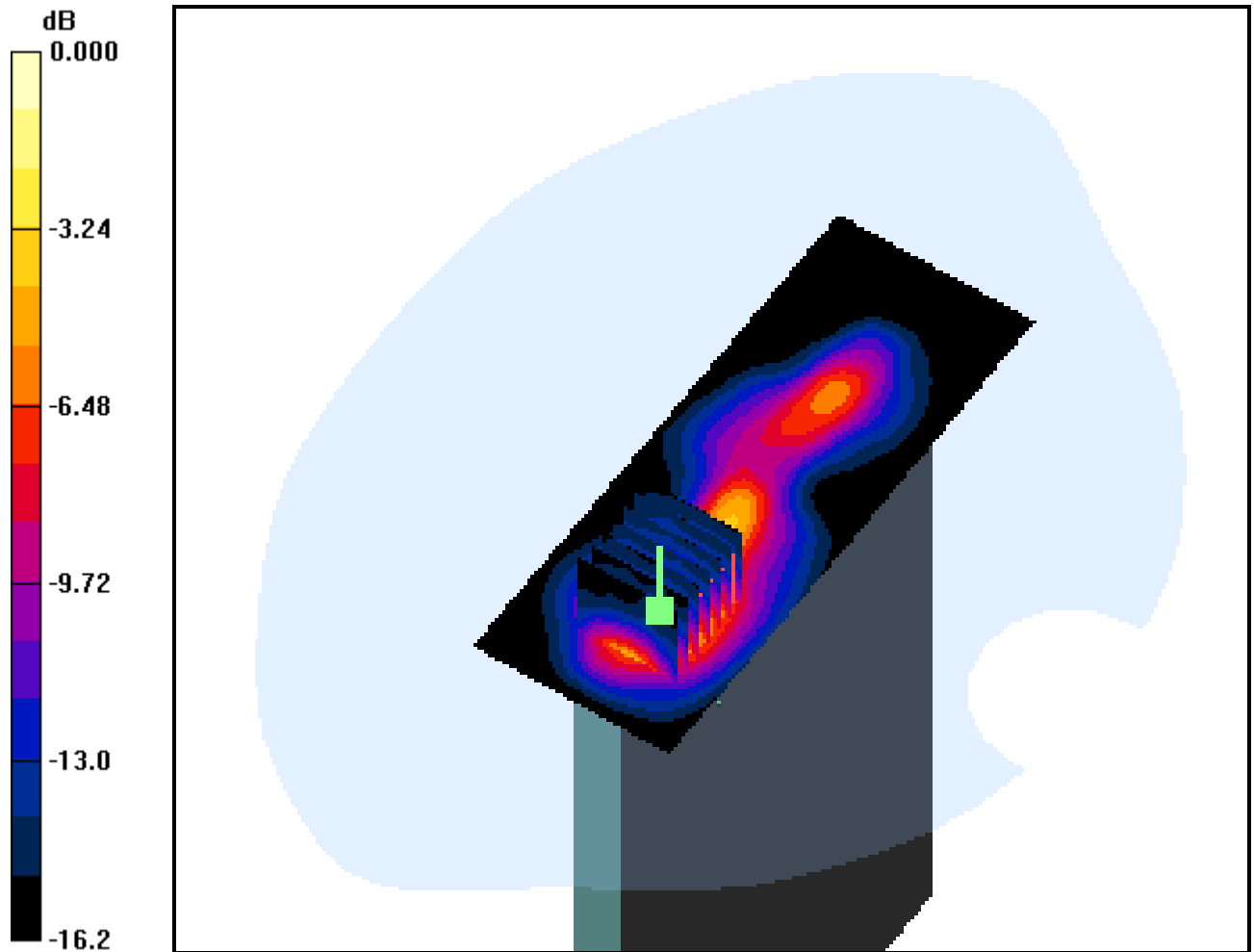
**Area Scan (41x111x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = -0.142 dB

Peak SAR (extrapolated) = 0.655 W/kg

**SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.131 mW/g**



0 dB = 0.434mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 2 \text{ mho/m}$ ;  $\epsilon_r = 52.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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(Back), W-LAN(802.11b)Ch.6, Ant Fixed**

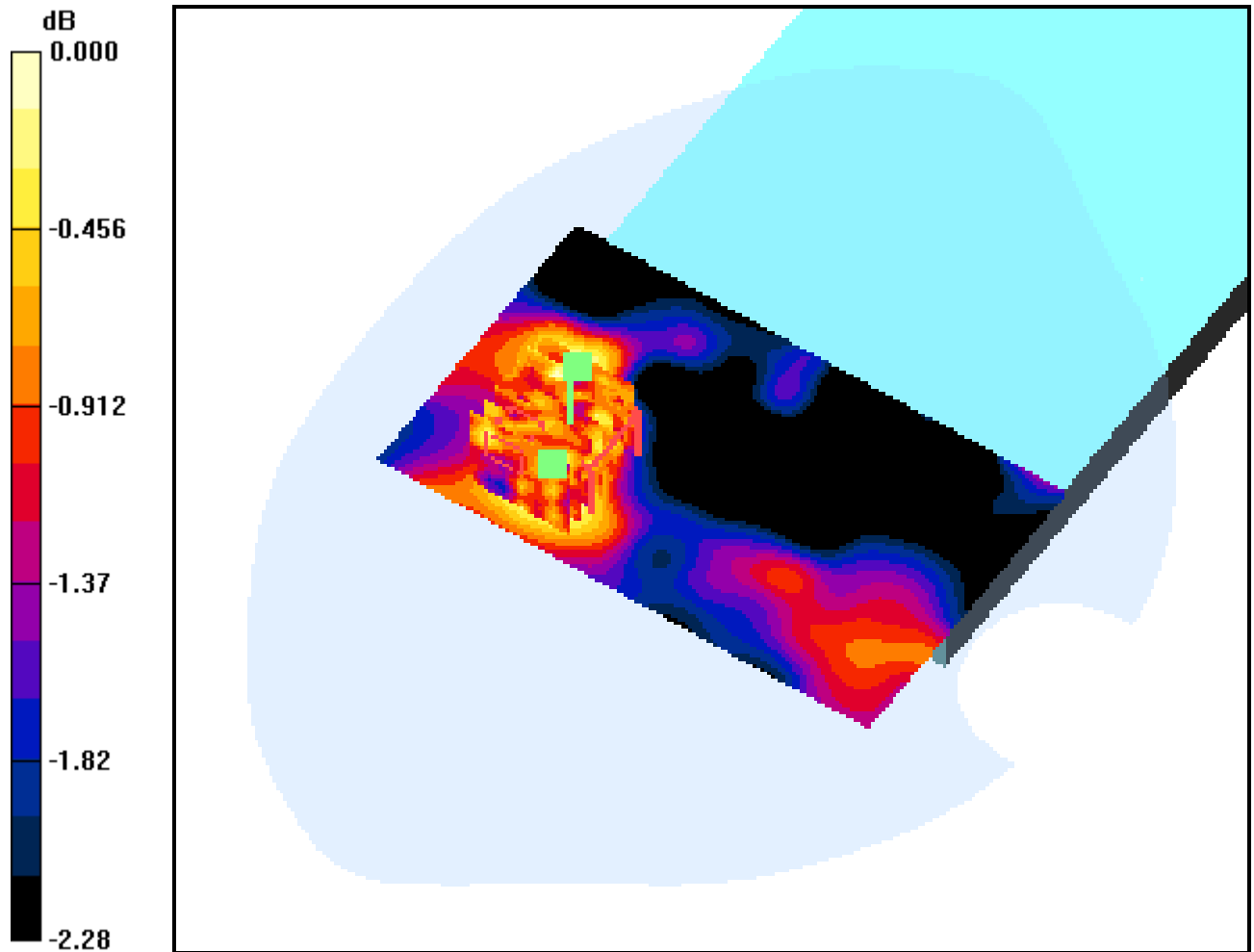
**Area Scan (101x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.222 dB

Peak SAR (extrapolated) = 0.030 W/kg

**SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00909 mW/g**



0 dB = 0.012mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

Communication System: W-LAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 2 \text{ mho/m}$ ;  $\epsilon_r = 52.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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(Back), W-LAN(802.11b)Ch.6, Ant Fixed**

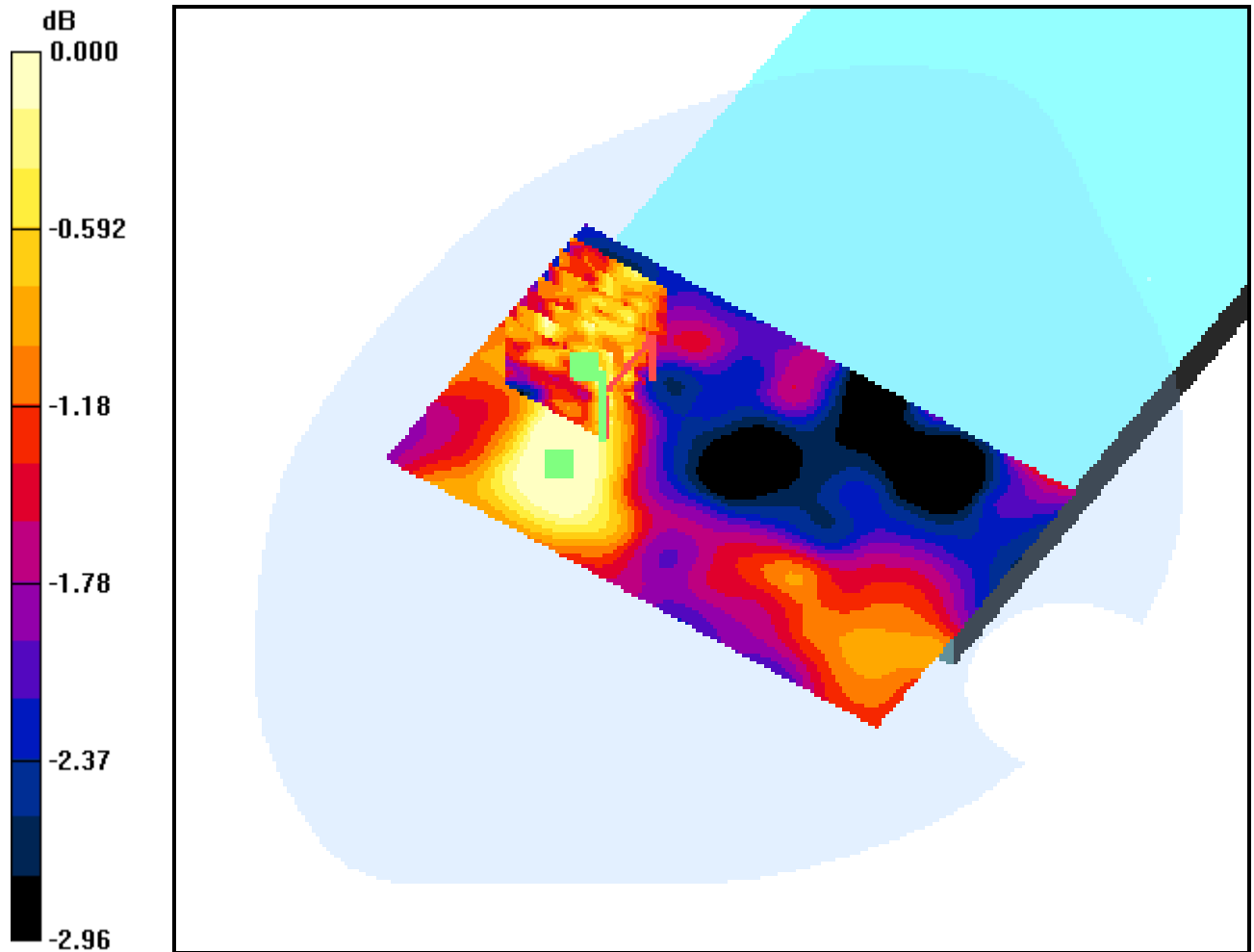
**Area Scan (101x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Power Drift = 0.222 dB

Peak SAR (extrapolated) = 0.013 W/kg

**SAR(1 g) = 0.010 mW/g; SAR(10 g) = 0.00904 mW/g**



0 dB = 0.012mW/g

# DIGITAL EMC CO., LTD

**DUT: S7; Type: Laptop**

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

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 2.02 \text{ mho/m}$ ;  $\epsilon_r = 51.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

## **DASY4 Configuration:**

Probe: EX3DV4 - SN3643; ConvF(6.8, 6.8, 6.8); 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, W-LAN(802.11b)Ch.11, Ant Fixed**

**Area Scan (41x111x1):** 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 = -0.206 dB

Peak SAR (extrapolated) = 0.664 W/kg

**SAR(1 g) = 0.300 mW/g; SAR(10 g) = 0.132 mW/g**

