

## System Check\_Head\_835MHz\_110213

### DUT: Dipole 835 MHz

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

Medium: HSL\_850\_110213 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.893 \text{ mho/m}$ ;  $\epsilon_r = 43$ ;  $\rho = 1000$

$\text{kg/m}^3$

Ambient Temperature : 22.5 ; Liquid Temperature : 21.5

### DASY5 Configuration:

- Probe: ET3DV6 - SN1788; ConvF(6.23, 6.23, 6.23); Calibrated: 2010/9/21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: SAM - Front; Type: SAM; Serial: TP-1446
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.68 mW/g

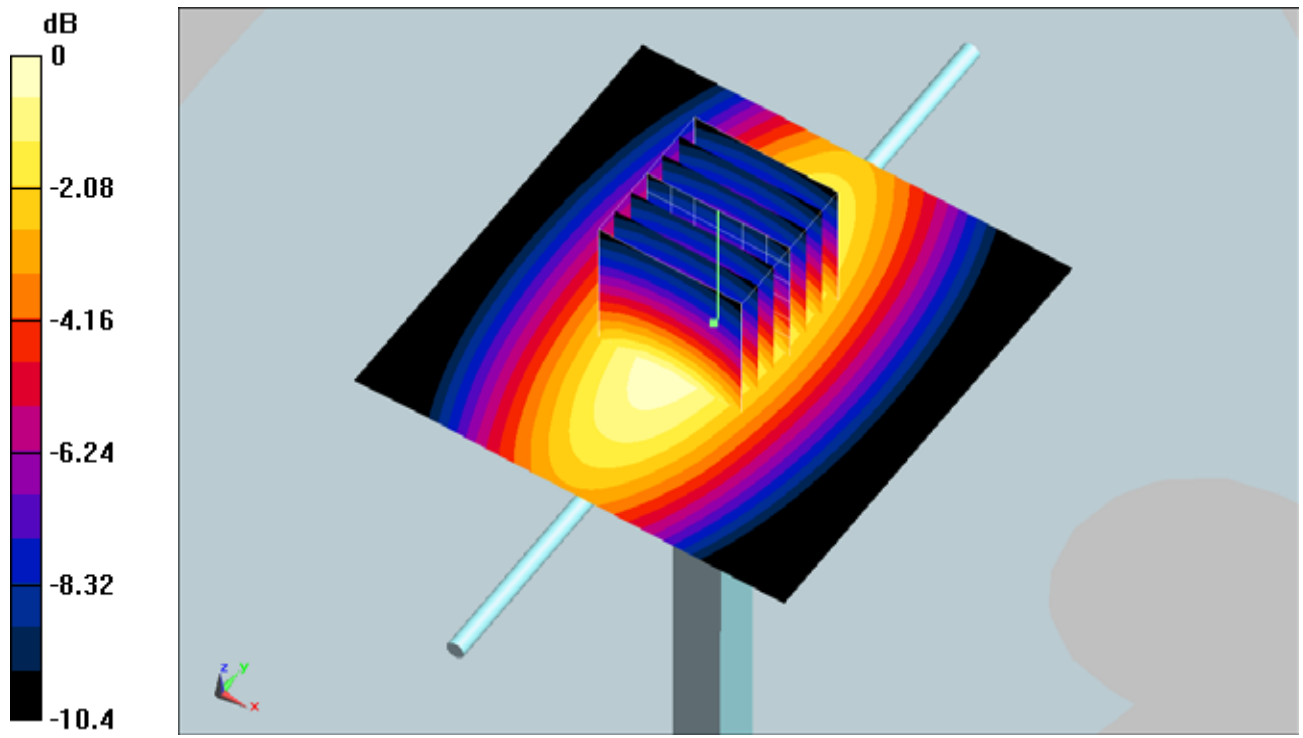
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.9 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 3.64 W/kg

**SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.63 mW/g**

Maximum value of SAR (measured) = 2.69 mW/g



0 dB = 2.69mW/g

### System Check\_Head\_835MHz\_110407

#### DUT: Dipole 835 MHz

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

Medium: HSL\_850\_110407 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.921$  mho/m;  $\epsilon_r = 41.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.5 °C; Liquid Temperature : 21.4 °C

#### DASY4 Configuration:

- Probe: ET3DV6 - SN1788; ConvF(6.23, 6.23, 6.23); Calibrated: 2010/9/21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.70 mW/g

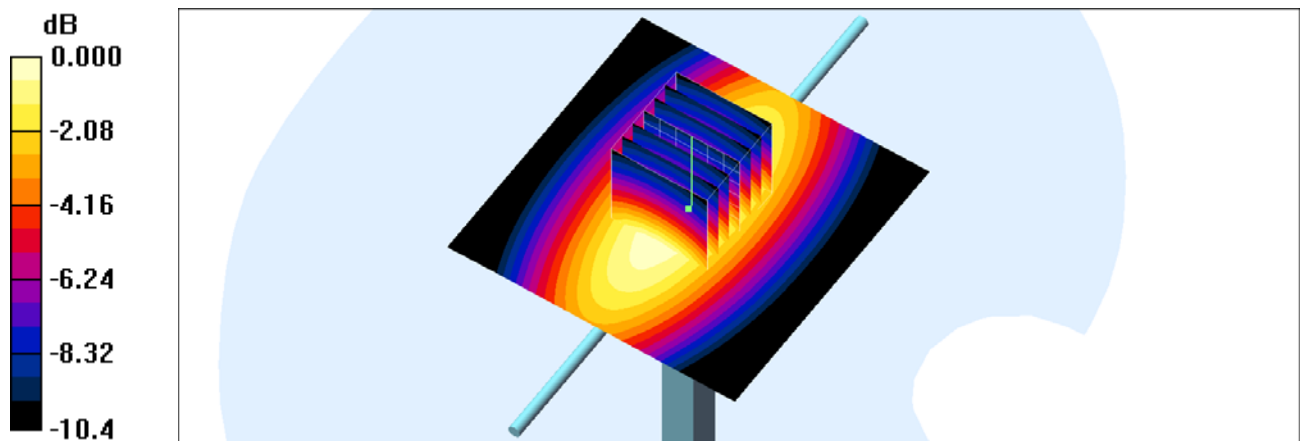
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.4 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 3.63 W/kg

**SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.64 mW/g**

Maximum value of SAR (measured) = 2.68 mW/g



0 dB = 2.68mW/g

## System Check\_Head\_835MHz\_110512

### DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
Medium: HSL\_850\_110512 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.925$   
 $\text{mho/m}$ ;  $\epsilon_r = 43.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.3 °C; Liquid Temperature : 21.5 °C

### DASY4 Configuration:

- Probe: EX3DV4 - SN3731; ConvF(8.85, 8.85, 8.85); Calibrated: 2010/9/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: SAM\_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.46 mW/g

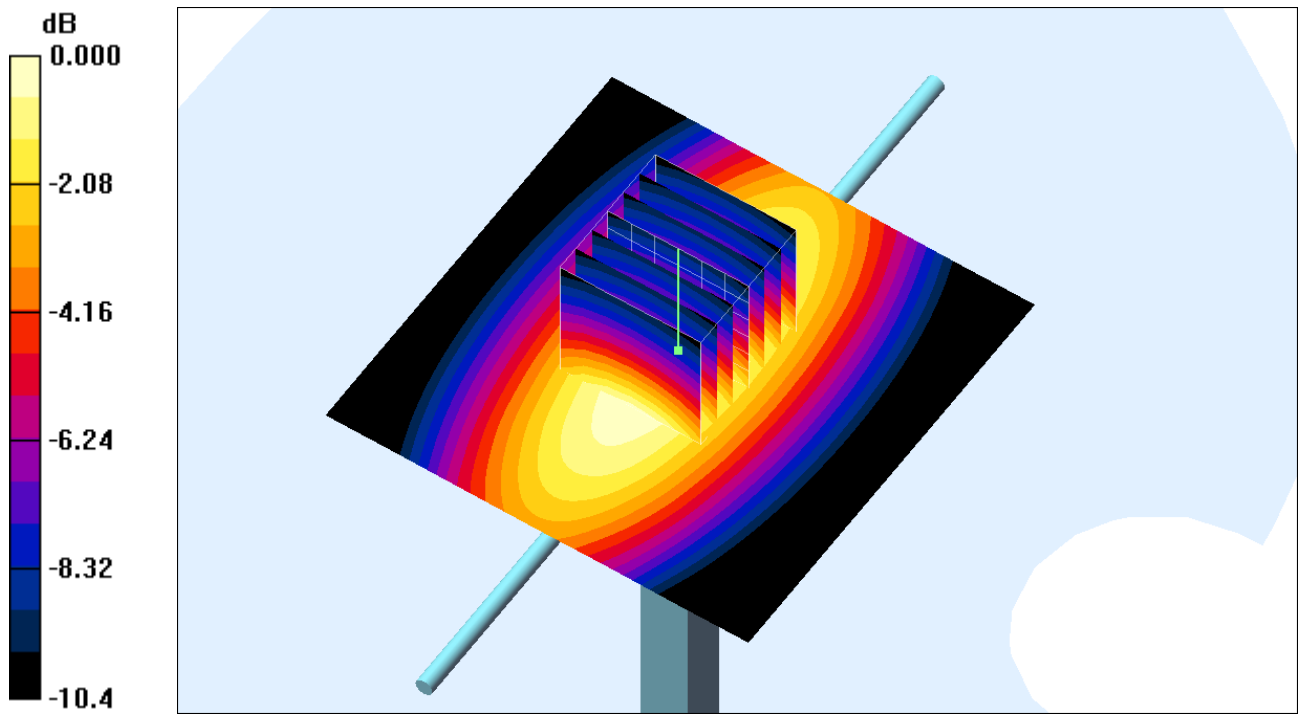
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm,  
dy=5mm, dz=5mm

Reference Value = 51.4 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 3.39 W/kg

**SAR(1 g) = 2.24 mW/g; SAR(10 g) = 1.46 mW/g**

Maximum value of SAR (measured) = 2.41 mW/g



0 dB = 2.41mW/g

## System Check\_Body\_835MHz\_110209

### DUT: Dipole 835 MHz

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

Medium: MSL\_850\_110209 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.955$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.5 ; Liquid Temperature : 21.5

### DASY5 Configuration:

- Probe: ET3DV6 - SN1788; ConvF(5.99, 5.99, 5.99); Calibrated: 2010/9/21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: SAM - Front; Type: SAM; Serial: TP-1446
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.73 mW/g

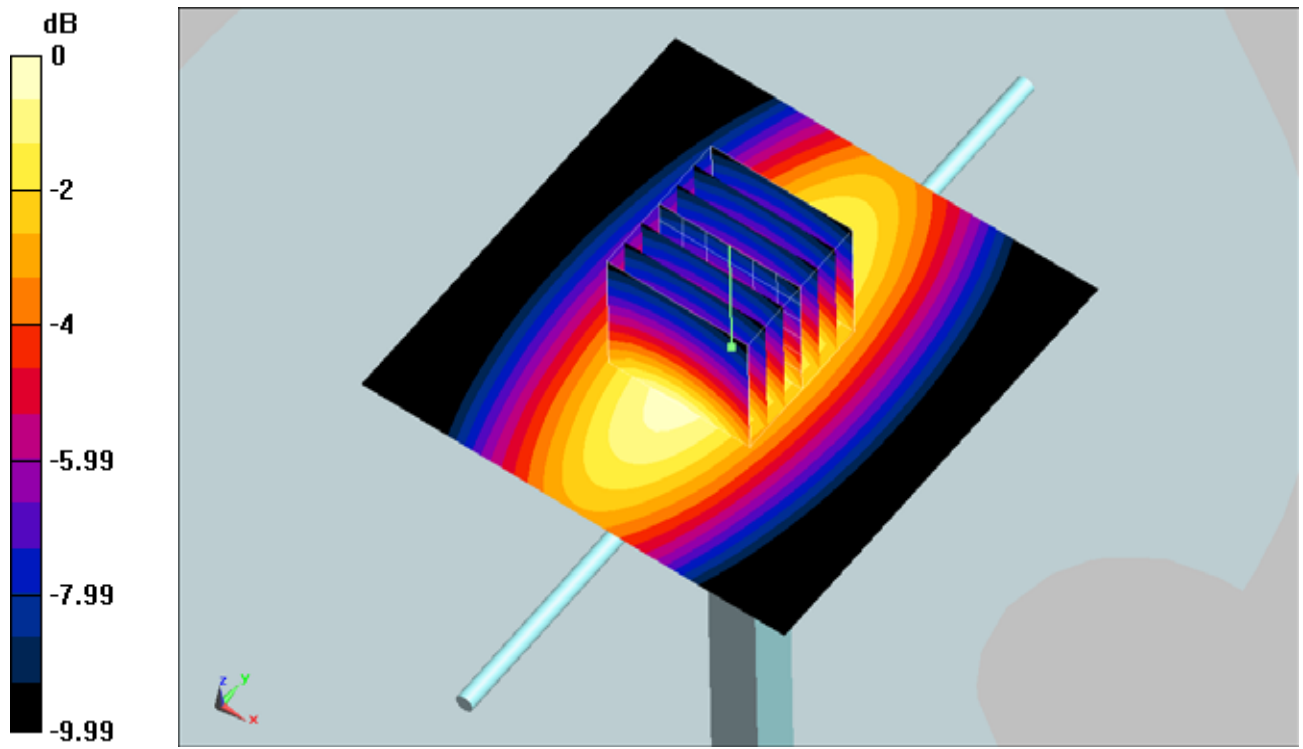
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.8 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 3.57 W/kg

**SAR(1 g) = 2.52 mW/g; SAR(10 g) = 1.68 mW/g**

Maximum value of SAR (measured) = 2.73 mW/g



0 dB = 2.73mW/g

## **System Check\_Body\_835MHz\_110315**

### **DUT: Dipole 835 MHz**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
Medium: MSL\_850\_110315 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.962$   
 $\text{mho/m}$ ;  $\epsilon_r = 54.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 21.5 °C; Liquid Temperature : 21.4 °C

### **DASY5 Configuration:**

- Probe: ET3DV6 - SN1788; ConvF(5.99, 5.99, 5.99); Calibrated: 2010/9/21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: SAM-Back; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X V13.4 Build 125

**Pin=250mW/Area Scan (61x61x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 2.63 mW/g

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  
 $dy=5\text{mm}$ ,  $dz=5\text{mm}$

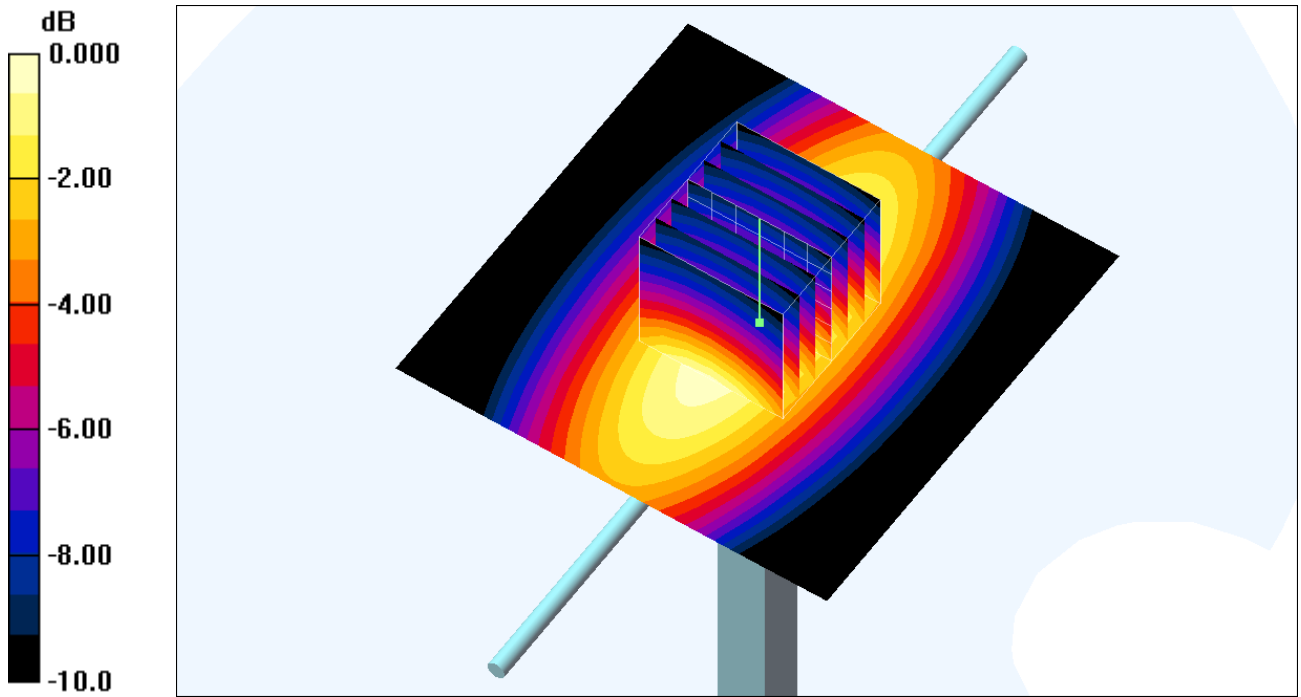
Reference Value = 54.4 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 3.44 W/kg

**SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.62 mW/g**

Maximum value of SAR (measured) = 2.63 mW/g





0 dB = 2.63mW/g

### System Check\_Body\_835MHz\_110407

#### DUT: Dipole 835 MHz

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

Medium: MSL\_850\_110407 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.998 \text{ mho/m}$ ;  $\epsilon_r = 55.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.6 °C; Liquid Temperature : 21.4 °C

#### DASY4 Configuration:

- Probe: ET3DV6 - SN1788; ConvF(5.99, 5.99, 5.99); Calibrated: 2010/9/21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.72 mW/g

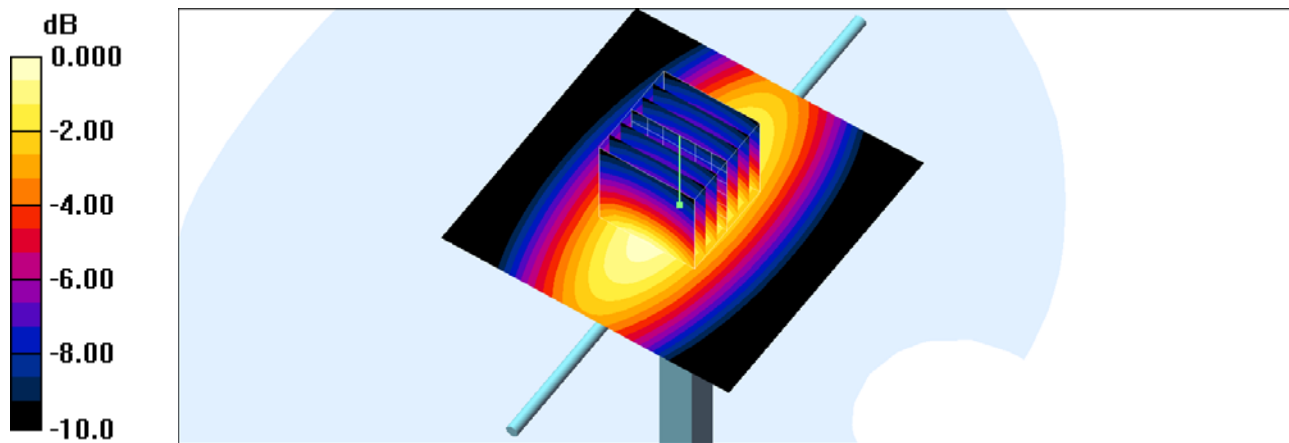
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.4 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 3.56 W/kg

**SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.67 mW/g**

Maximum value of SAR (measured) = 2.72 mW/g



0 dB = 2.72mW/g

## **System Check\_Body\_835MHz\_110512**

### **DUT: Dipole 835 MHz**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1  
Medium: MSL\_850\_110512 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.963$   
 $\text{mho/m}$ ;  $\epsilon_r = 54.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.4 °C; Liquid Temperature : 21.2 °C

### **DASY4 Configuration:**

- Probe: EX3DV4 - SN3731; ConvF(8.84, 8.84, 8.84); Calibrated: 2010/9/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: SAM\_Left; Type: SAM; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.73 mW/g

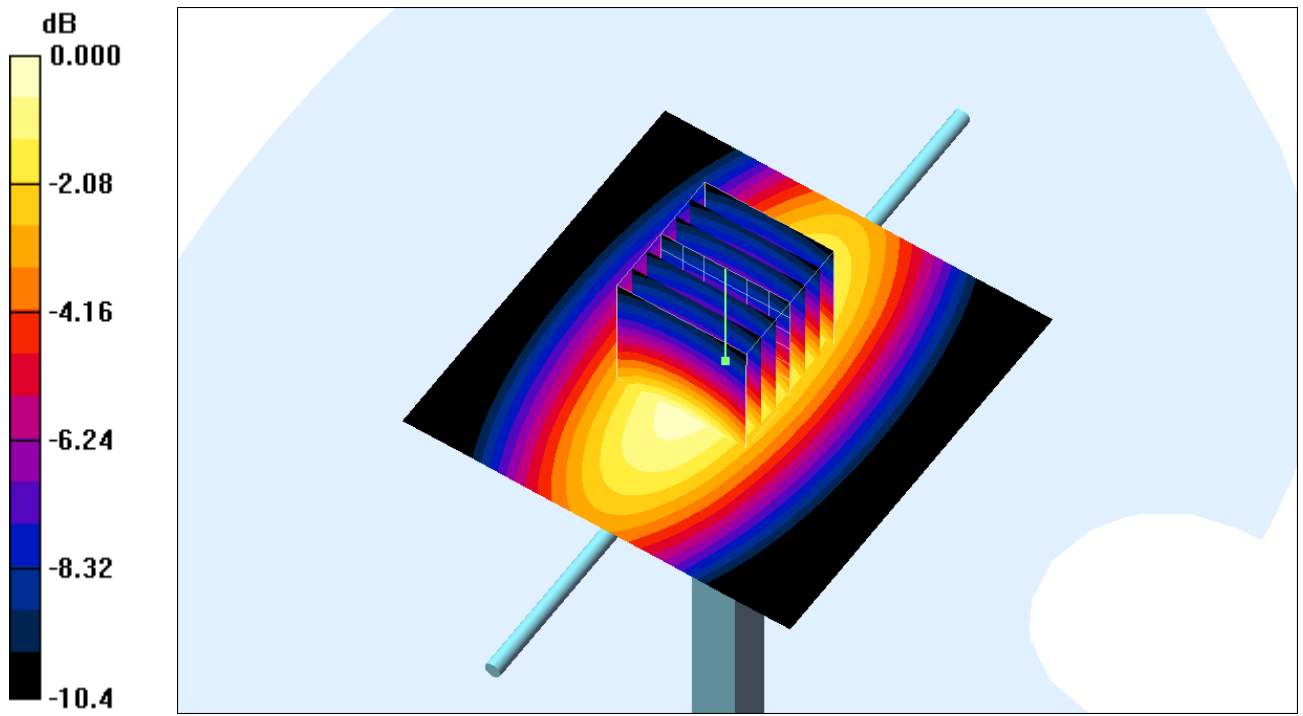
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm,  
dy=5mm, dz=5mm

Reference Value = 53.2 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 3.87 W/kg

**SAR(1 g) = 2.56 mW/g; SAR(10 g) = 1.67 mW/g**

Maximum value of SAR (measured) = 2.77 mW/g



0 dB = 2.77mW/g

## System Check\_Body\_835MHz\_110521

### DUT: Dipole 835 MHz

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

Medium: MSL\_850\_110521 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.963 \text{ mho/m}$ ;  $\epsilon_r = 54.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.5 ; Liquid Temperature : 21.5

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.79, 5.79, 5.79); Calibrated: 2010/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2011/4/28
- Phantom: SAM-Back; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 3.04 mW/g

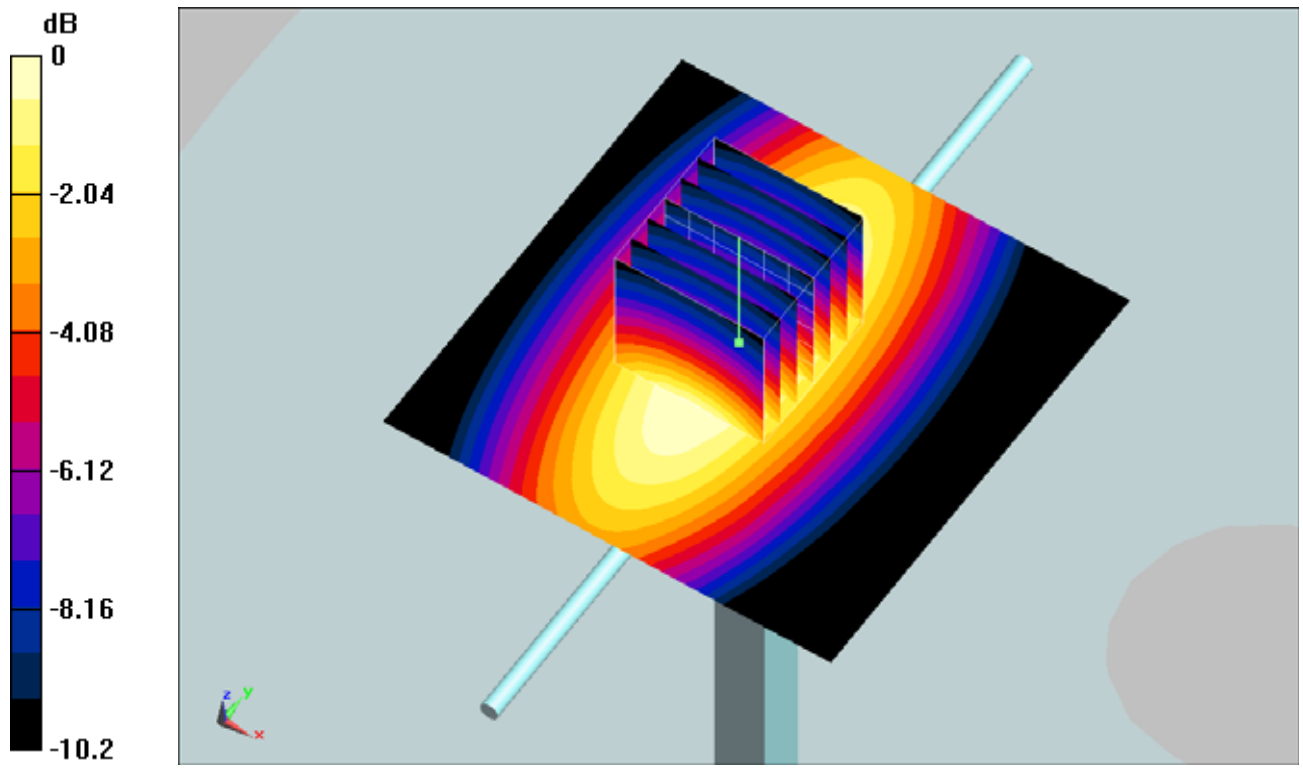
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.9 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 3.89 W/kg

**SAR(1 g) = 2.62 mW/g; SAR(10 g) = 1.72 mW/g**

Maximum value of SAR (measured) = 2.82 mW/g



0 dB = 2.82mW/g

## System Check\_Body\_835MHz\_110521

### DUT: Dipole 835 MHz

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

Medium: MSL\_850\_110521 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.963$  mho/m;  $\epsilon_r = 54.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 22.4 ; Liquid Temperature : 21.4

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3731; ConvF(8.84, 8.84, 8.84); Calibrated: 2010/9/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2011/4/28
- Phantom: SAM-Back; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.74 mW/g

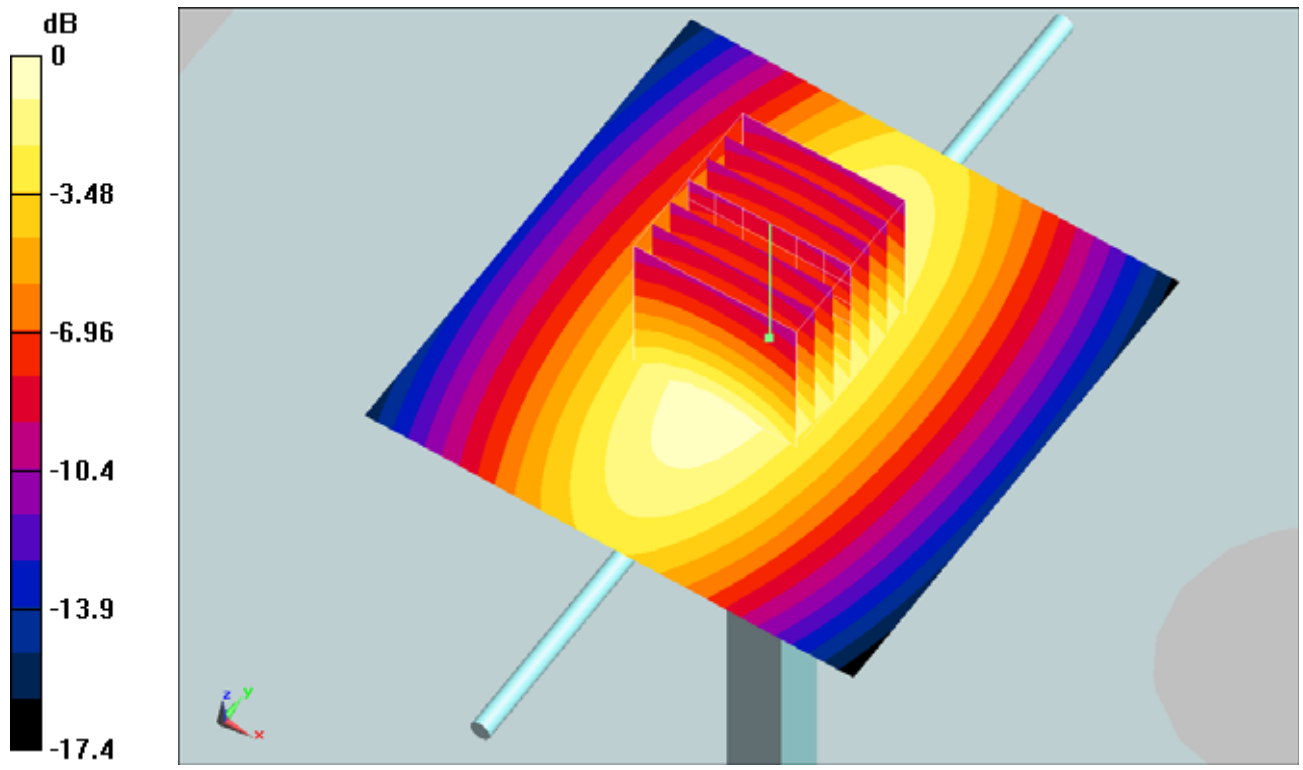
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.3 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 3.88 W/kg

**SAR(1 g) = 2.57 mW/g; SAR(10 g) = 1.67 mW/g**

Maximum value of SAR (measured) = 2.78 mW/g



0 dB = 2.78mW/g



## System Check\_Head\_1900MHz\_110213

### DUT: Dipole 1900 MHz

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL\_1900\_110213 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.2$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.6 ; Liquid Temperature : 21.6

#### DASY5 Configuration:

- Probe: ET3DV6 - SN1788; ConvF(5.03, 5.03, 5.03); Calibrated: 2010/9/21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: SAM-Back; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.4 mW/g

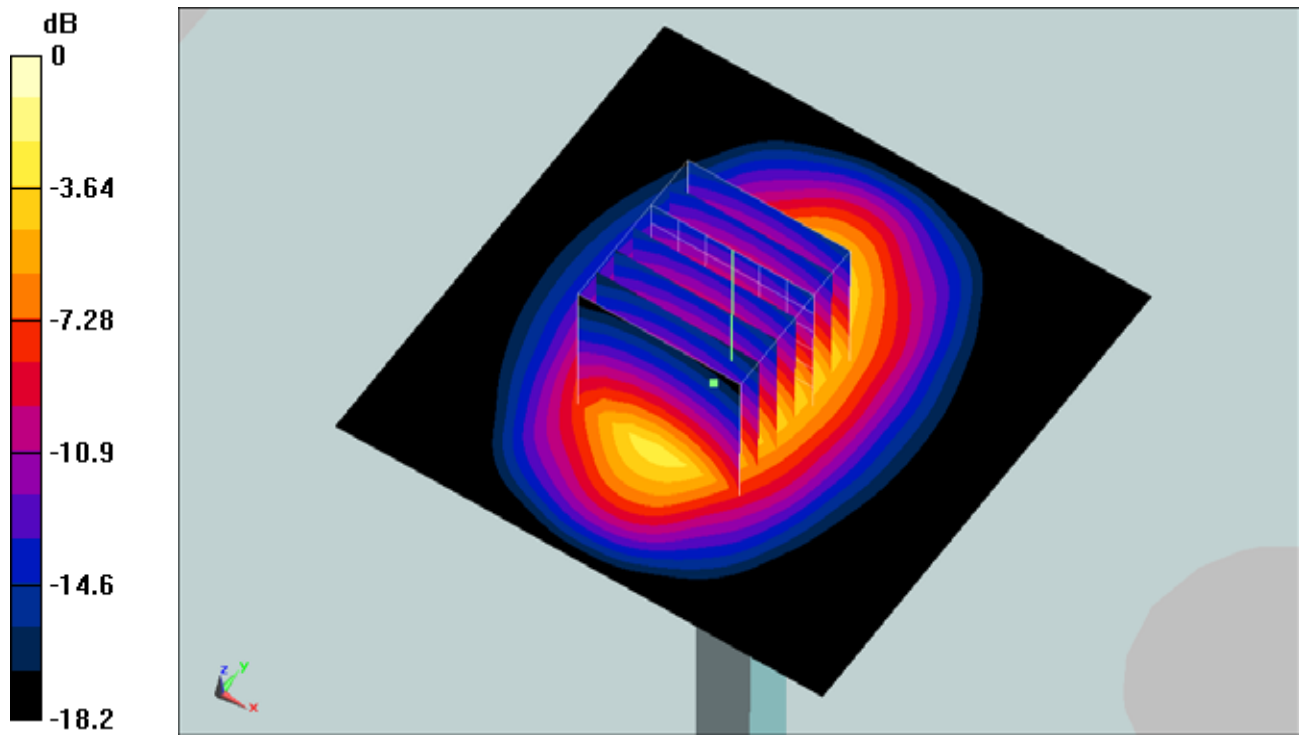
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.7 V/m; Power Drift = -0.0068 dB

Peak SAR (extrapolated) = 18.1 W/kg

**SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.58 mW/g**

Maximum value of SAR (measured) = 12 mW/g



0 dB = 12mW/g

## **System Check\_Body\_1900MHz\_110213**

### **DUT: Dipole 1900 MHz**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL\_1900\_110213 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.4 ; Liquid Temperature : 21.4

#### **DASY5 Configuration:**

- Probe: ET3DV6 - SN1788; ConvF(4.39, 4.39, 4.39); Calibrated: 2010/9/21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: SAM - Front; Type: SAM; Serial: TP-1446
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.8 mW/g

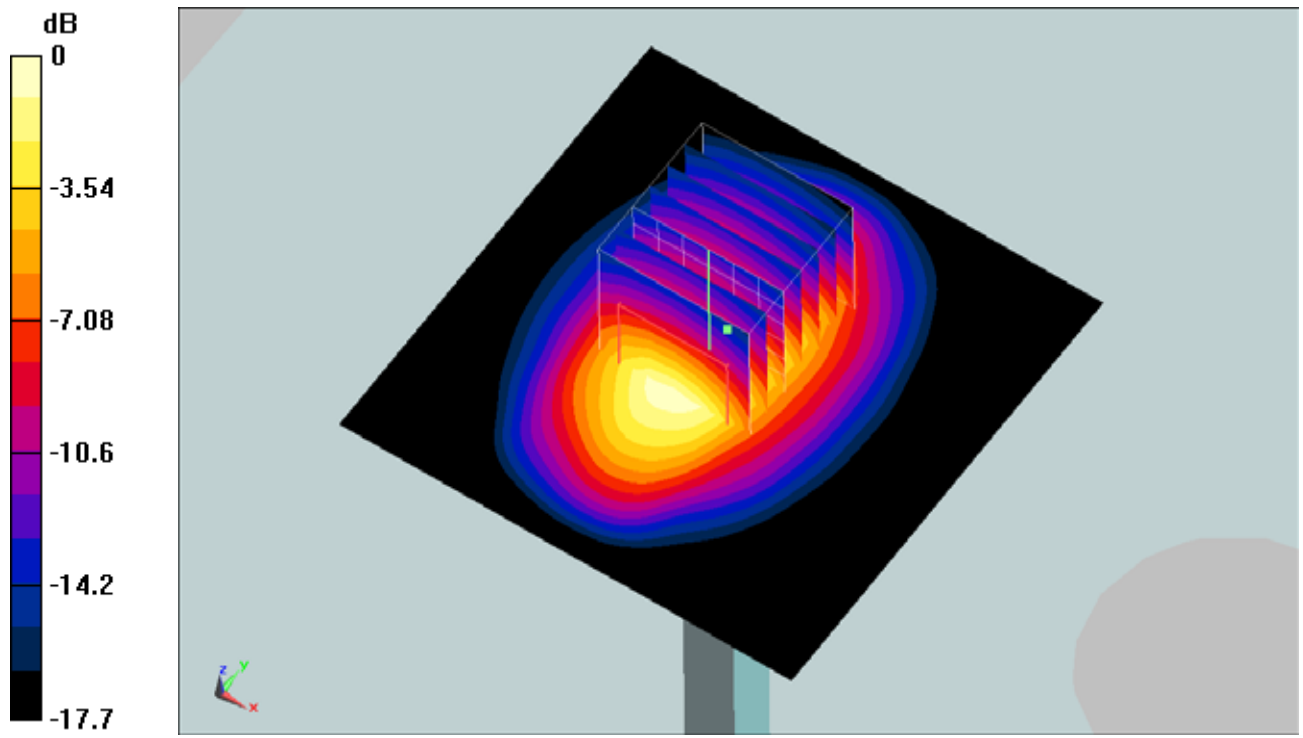
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 16.3 W/kg

**SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.69 mW/g**

Maximum value of SAR (measured) = 12.1 mW/g



0 dB = 12.1mW/g

## **System Check\_Body\_1900MHz\_110521**

### **DUT: Dipole 1900 MHz**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL\_1900\_110521 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.3 ; Liquid Temperature : 21.5

DASY5 Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.3, 4.3, 4.3); Calibrated: 2010/6/22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn495; Calibrated: 2011/4/28
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1029
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12 mW/g

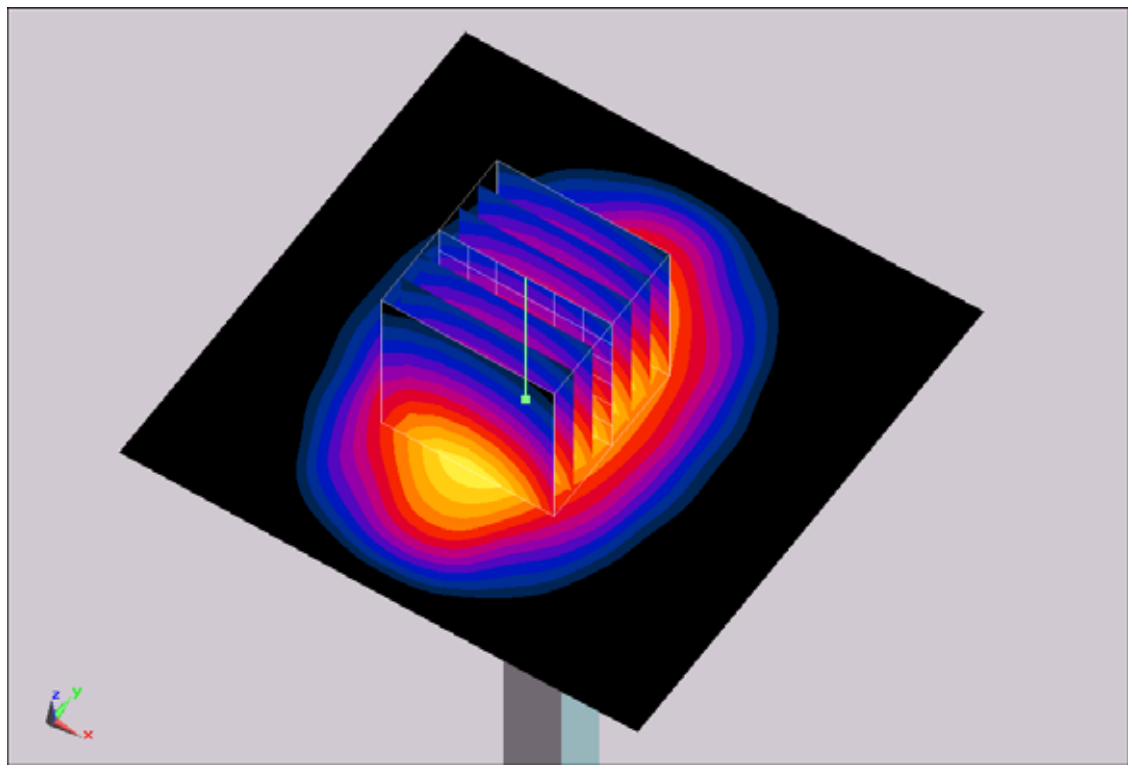
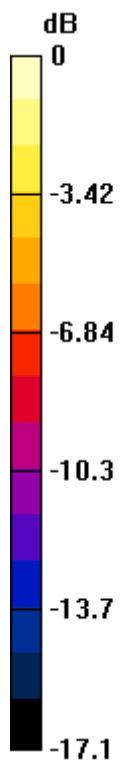
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.1 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 18.2 W/kg

**SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.54 mW/g**

Maximum value of SAR (measured) = 11.8 mW/g



0 dB = 11.8mW/g

## System Check\_Body\_1900MHz\_110521

### DUT: Dipole 1900 MHz

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL\_1900\_110521 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 53.2$ ;  $\rho = 1000$

kg/m<sup>3</sup>

Ambient Temperature : 22.5 ; Liquid Temperature : 21.5

#### DASY5 Configuration:

- Probe: ET3DV6 - SN1788; ConvF(4.39, 4.39, 4.39); Calibrated: 2010/9/21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: SAM-Back; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13 mW/g

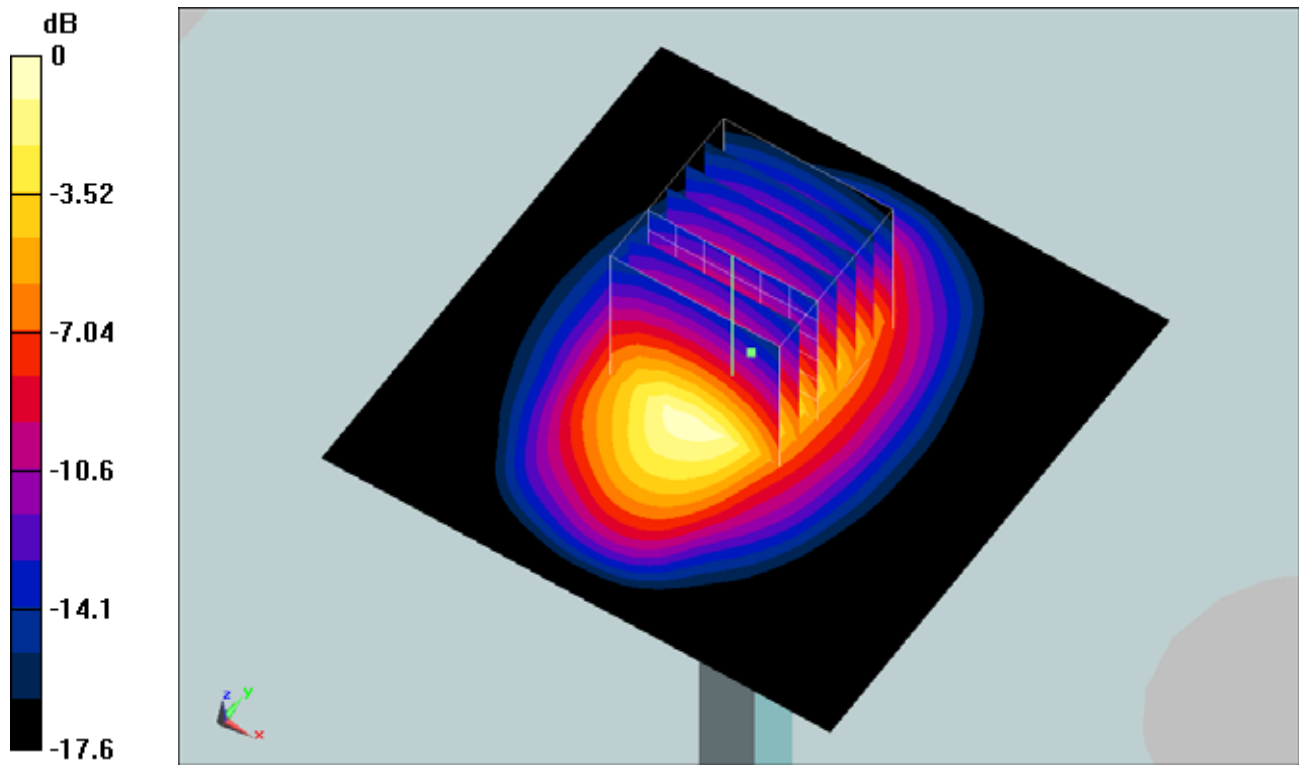
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.2 V/m; Power Drift = 0.00357 dB

Peak SAR (extrapolated) = 16.7 W/kg

**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 5.82 mW/g**

Maximum value of SAR (measured) = 12.4 mW/g



0 dB = 12.4mW/g



### System Check\_Body\_835MHz\_110603

#### DUT: Dipole 835 MHz

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

Medium: MSL\_850\_110603 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.985 \text{ mho/m}$ ;  $\epsilon_r = 54.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 22.5 °C; Liquid Temperature : 21.5 °C

#### DASY4 Configuration:

- Probe: ET3DV6 - SN1787; ConvF(6.35, 6.35, 6.35); Calibrated: 2011/5/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1249; Calibrated: 2011/2/21
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Pin=250mW/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.69 mW/g

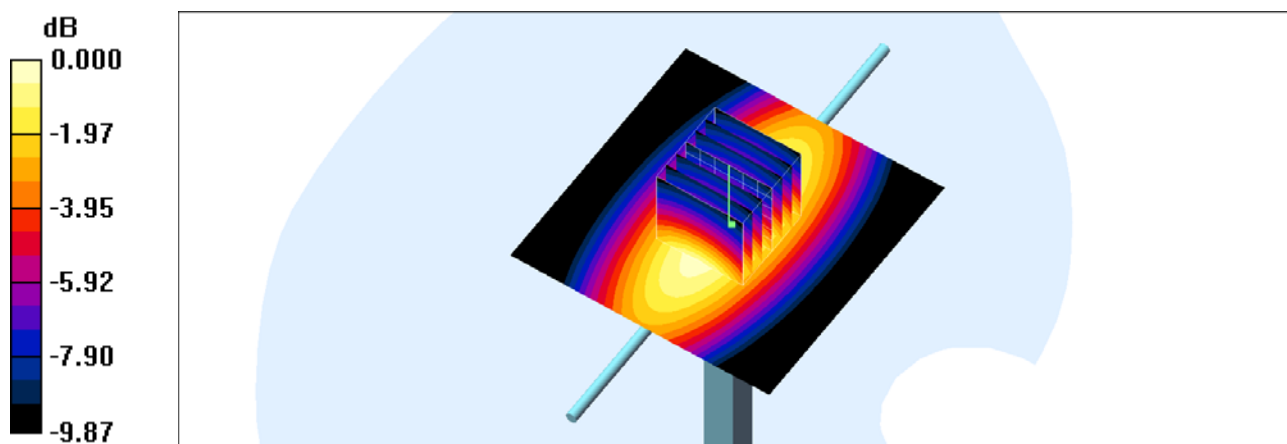
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.7 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 3.43 W/kg

**SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.66 mW/g**

Maximum value of SAR (measured) = 2.69 mW/g



0 dB = 2.69mW/g