

## Dipole Verification Plots

**DUT: Dipole 750MHz; Type: D750V3; Serial: 1100**

Communication System: CW; Frequency: 750MHz

Medium parameters used:  $f=750\text{MHz}$ ,  $\sigma=0.929\text{S/m}$ ,  $\epsilon_r=41.45$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3957; ConvF(10.35, 10.35, 10.35); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 23.8; Tissue Temp: 23.1

### 750 MHz System Verification

**Area Scan (5x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.75 W/kg

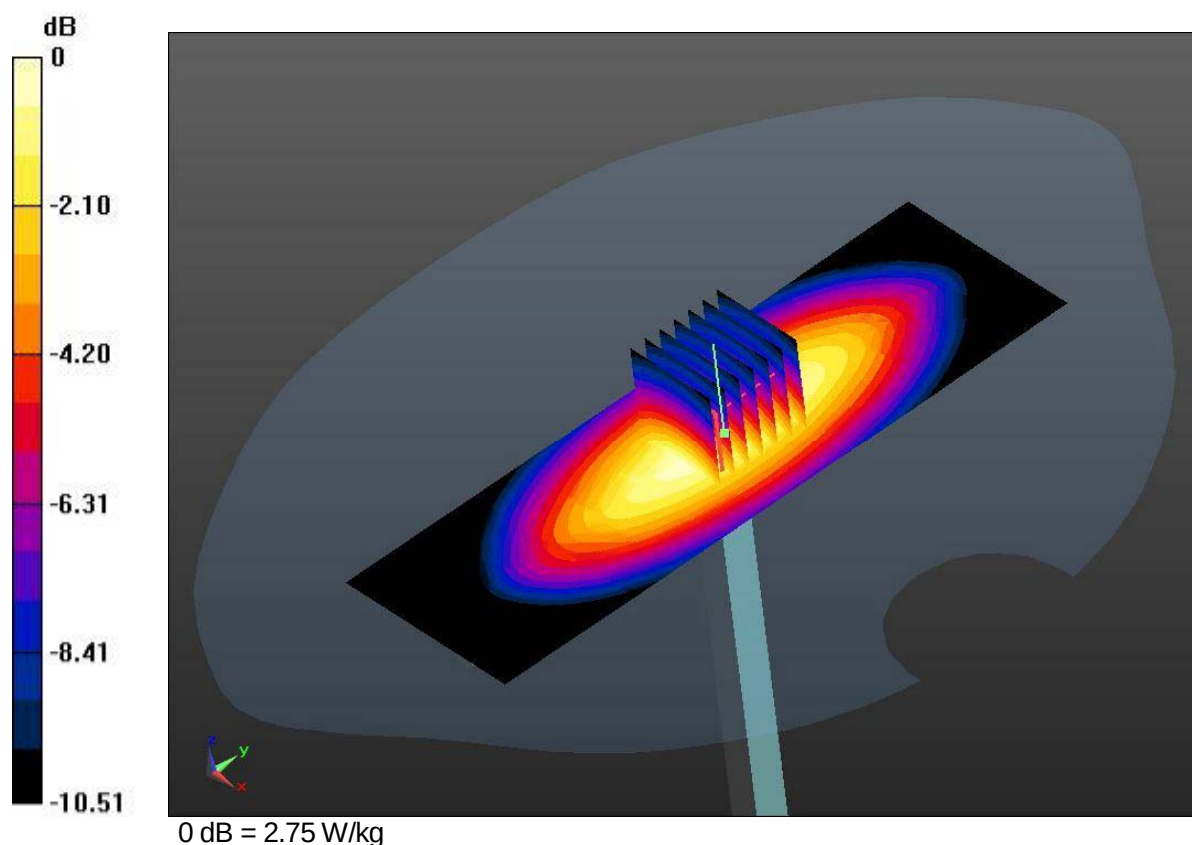
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.29 W/kg

**SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.41 W/kg**

Maximum value of SAR (measured) = 2.75 W/kg



**DUT: Dipole 750MHz; Type: D750V3; Serial: 1100**

Communication System: CW; Frequency: 750MHz

Medium parameters used:  $f=750\text{MHz}$ ,  $\sigma=0.929\text{S/m}$ ,  $\epsilon_r=41.45$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(10.35, 10.35, 10.35); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 23.8; Tissue Temp: 23.1

**750 MHz System Verification****Area Scan (5x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 2.75 W/kg

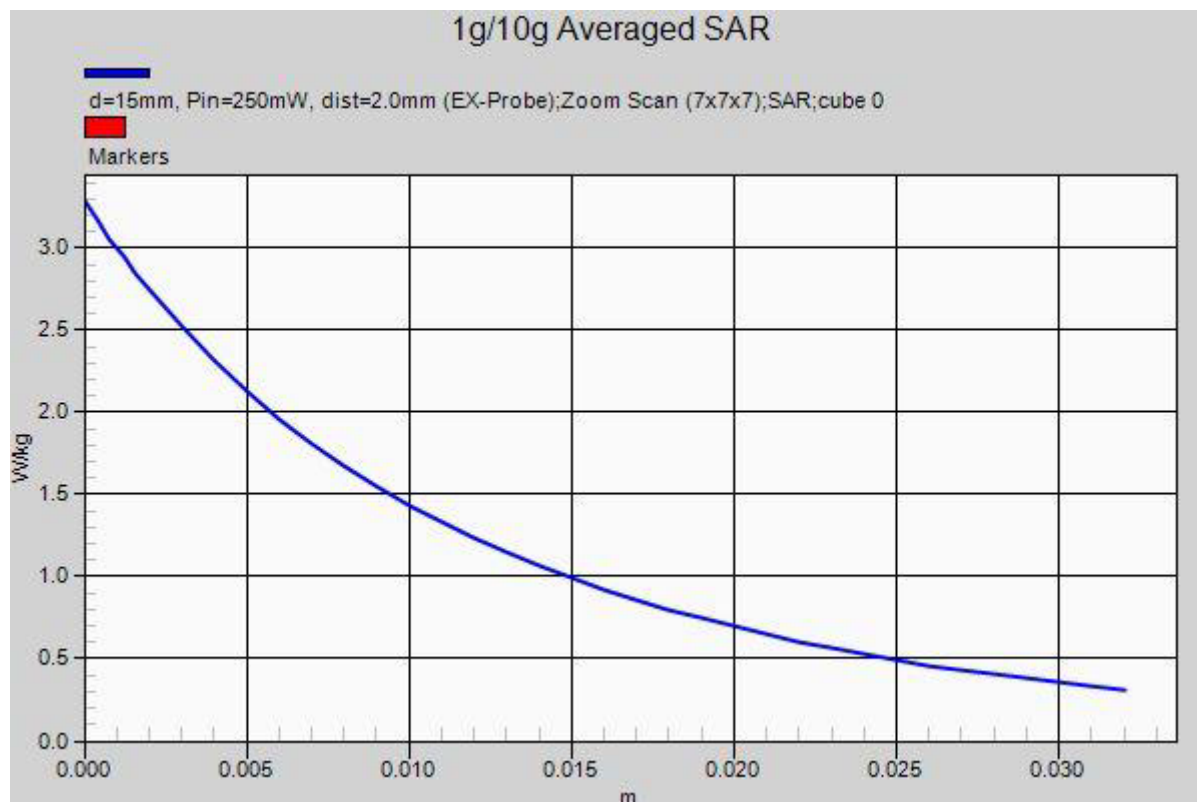
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 55.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.29 W/kg

**SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.41 W/kg**

Maximum value of SAR (measured) = 2.75 W/kg



### DUT: Dipole 750MHz; Type: D750V3; Serial: 1100

Communication System: CW; Frequency: 750MHz

Medium parameters used:  $f=750\text{MHz}$ ,  $\sigma=0.995\text{S/m}$ ,  $\epsilon_r=54.668$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3957; ConvF(9.91, 9.91, 9.91); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 22.3; Tissue Temp: 22.9

### 750 MHz System Verification

**Area Scan (5x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.91 W/kg

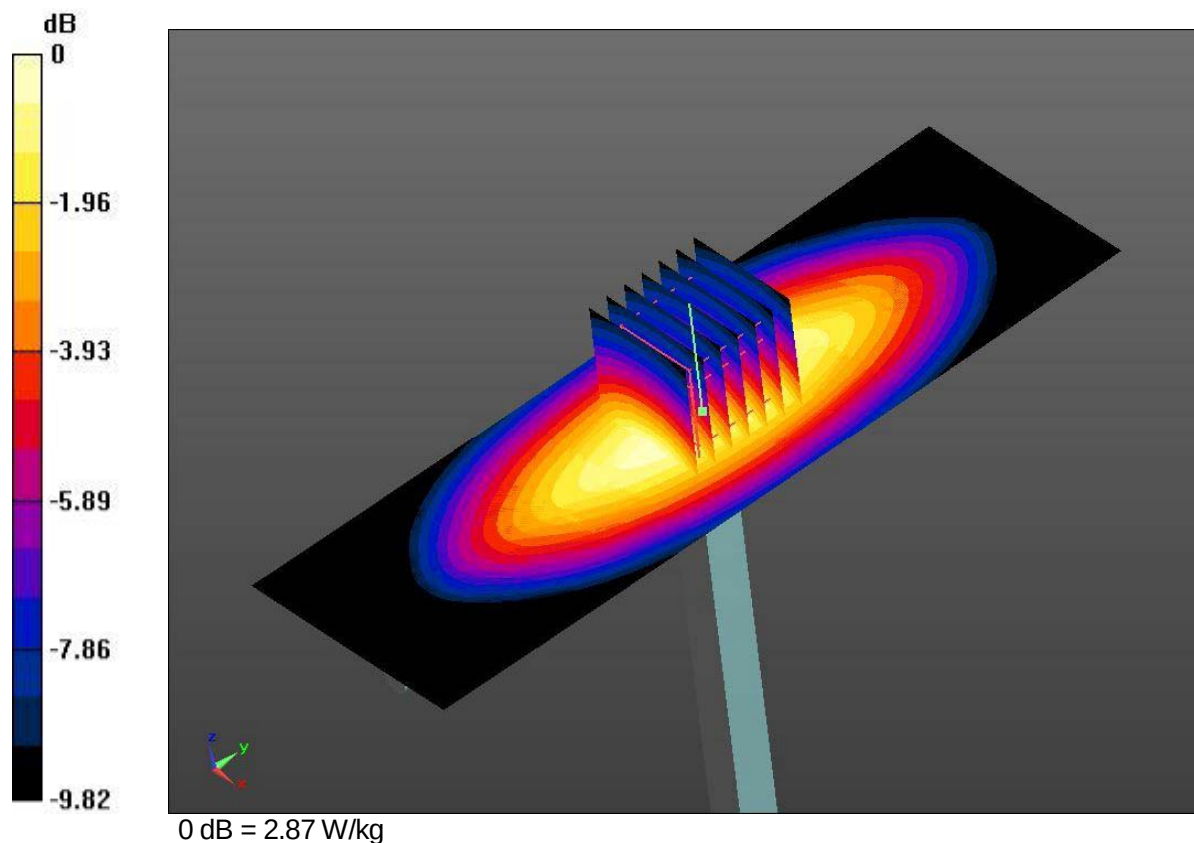
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 54.87 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.39 W/kg

**SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.53 W/kg**

Maximum value of SAR (measured) = 2.87 W/kg



**DUT: Dipole 750MHz; Type: D750V3; Serial: 1100**

Communication System: CW; Frequency: 750MHz

Medium parameters used:  $f=750\text{MHz}$ ,  $\sigma=0.995\text{S/m}$ ,  $\epsilon_r=54.668$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(9.91, 9.91, 9.91); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 22.3; Tissue Temp: 22.9

**750 MHz System Verification**

**Area Scan (5x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.91 W/kg

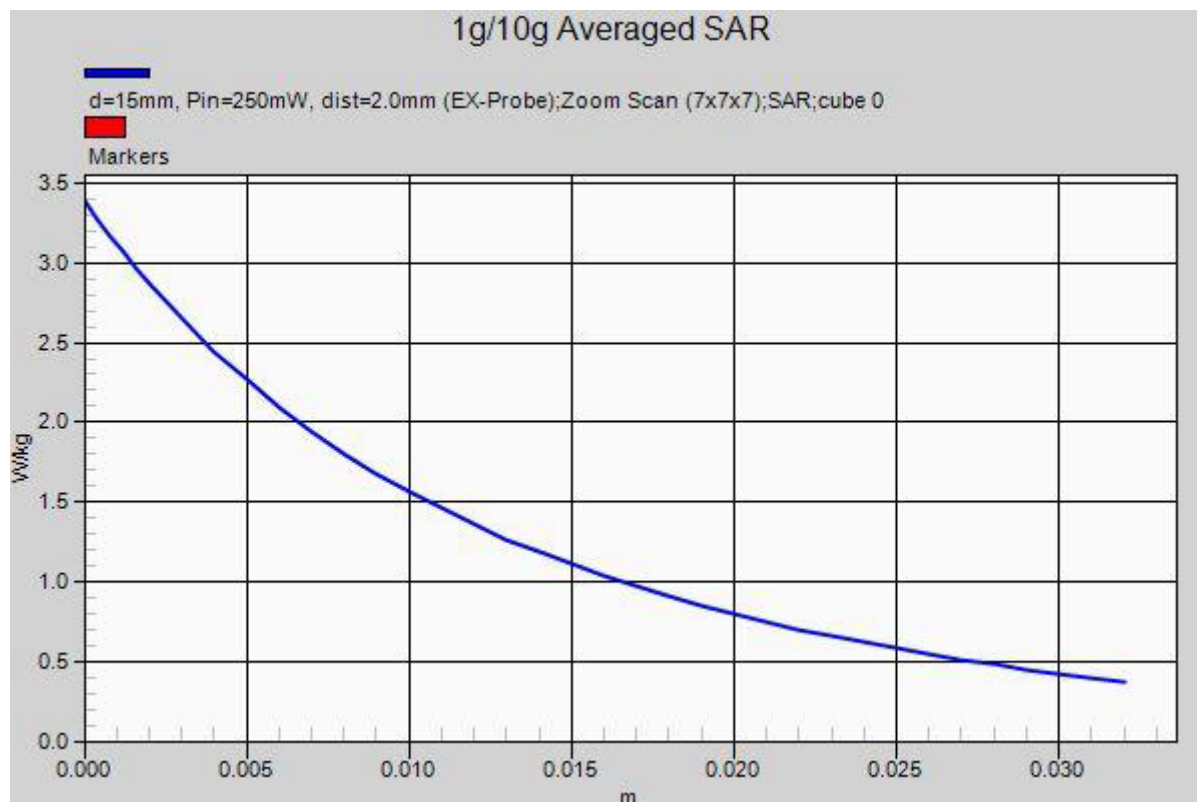
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 54.87 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.39 W/kg

**SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.53 W/kg**

Maximum value of SAR (measured) = 2.87 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=0.925\text{S/m}$ ,  $\epsilon_r=41.603$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3957; ConvF(10.02, 10.02, 10.02); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-17; Ambient Temp: 22.0; Tissue Temp: 23.0

### 835 MHz System Verification

**Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.02 W/kg

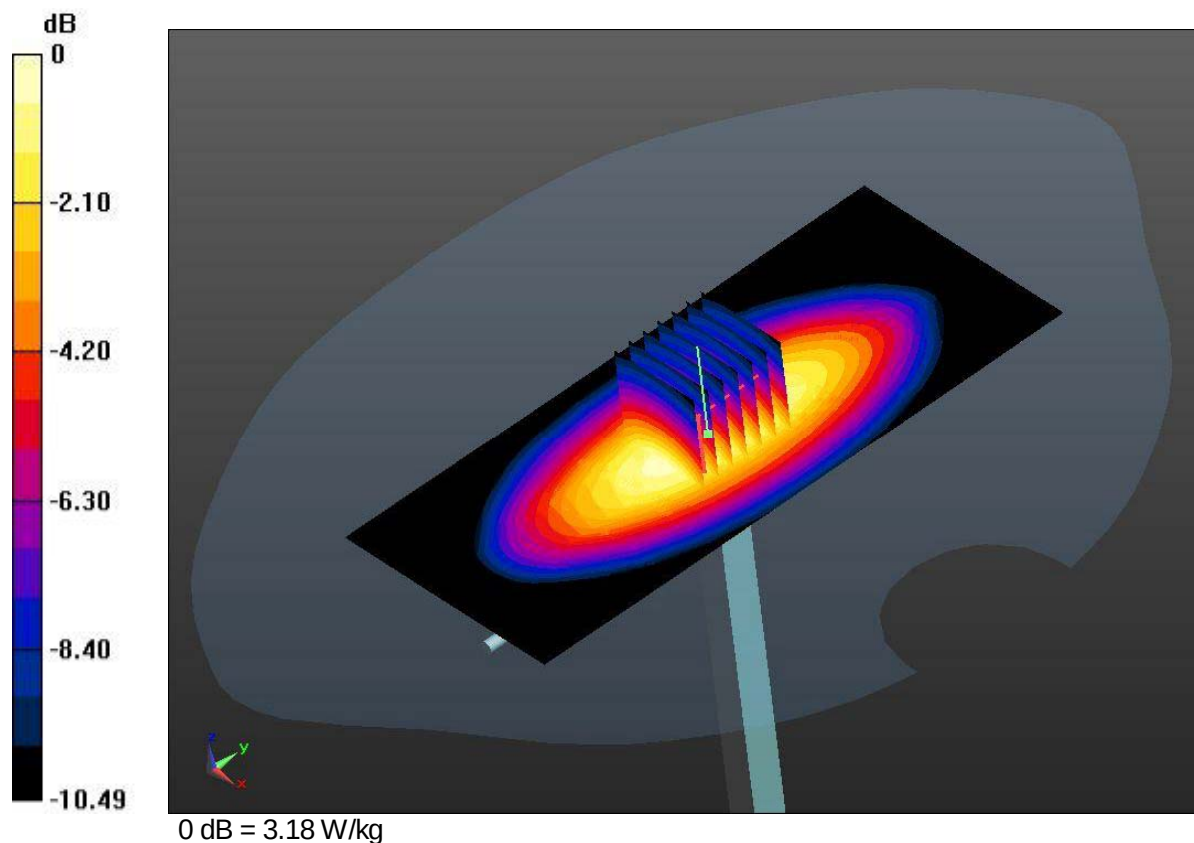
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 60.24 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.77 W/kg

**SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.65 W/kg**

Maximum value of SAR (measured) = 3.18 W/kg



**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163**

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=0.925\text{S/m}$ ,  $\epsilon_r=41.603$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(10.02, 10.02, 10.02); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0$ , 31.0

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-17; Ambient Temp: 22.0; Tissue Temp: 23.0

**835 MHz System Verification****Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 3.02 W/kg

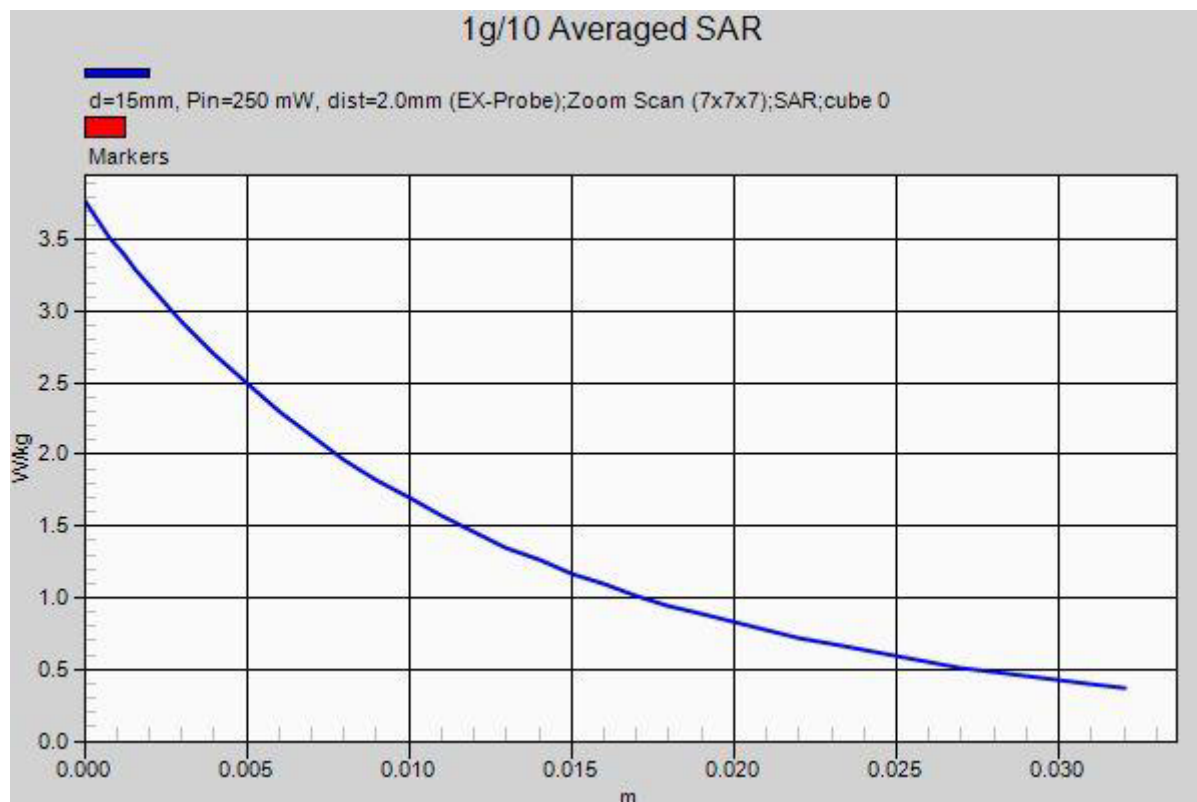
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 60.24 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.77 W/kg

**SAR(1 g) = 2.51 W/kg; SAR(10 g) = 1.65 W/kg**

Maximum value of SAR (measured) = 3.18 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=1.008\text{S/m}$ ,  $\epsilon_r=54.404$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3957; ConvF(9.78, 9.78, 9.78); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-18; Ambient Temp: 22.8; Tissue Temp: 22.8

### 835 MHz System Verification

**Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.97 W/kg

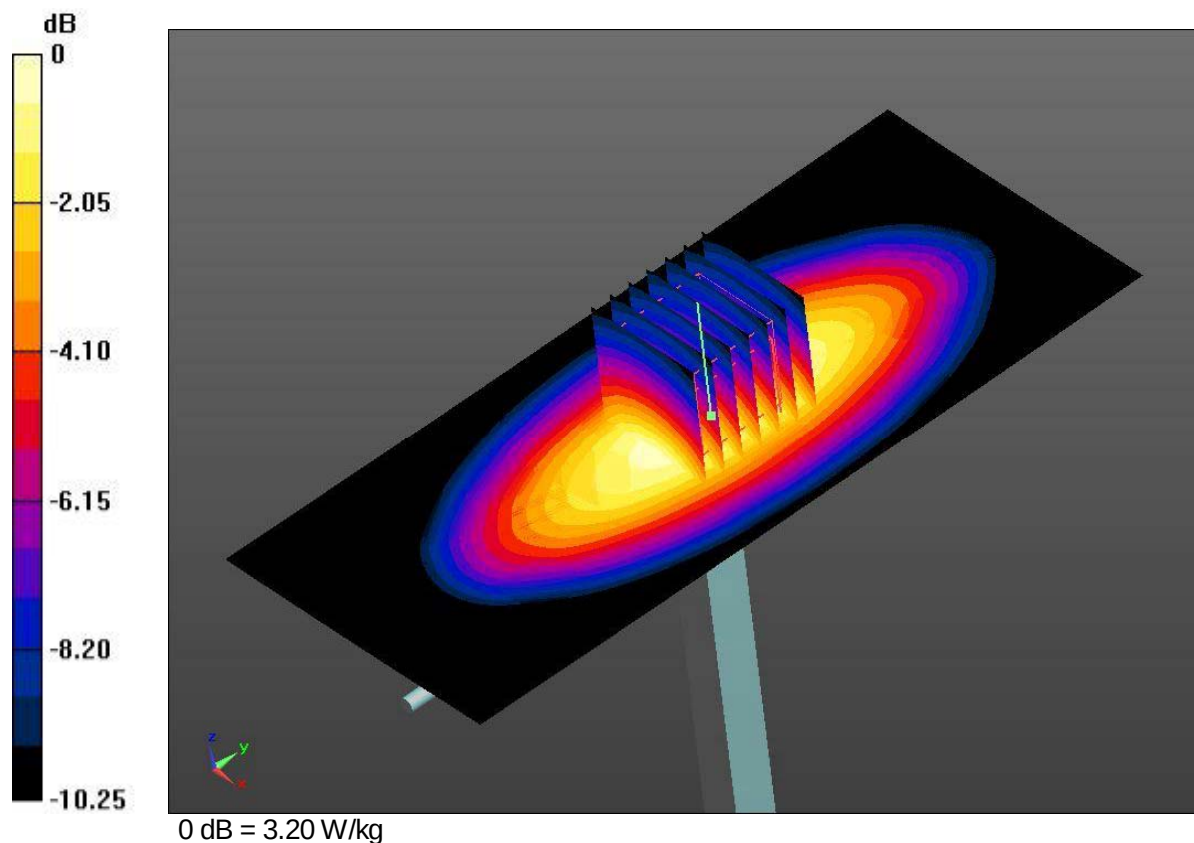
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 57.34 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.77 W/kg

**SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.67 W/kg**

Maximum value of SAR (measured) = 3.20 W/kg



**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163**

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=1.008\text{S/m}$ ,  $\epsilon_r=54.404$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(9.78, 9.78, 9.78); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-18; Ambient Temp: 22.8; Tissue Temp: 22.8

**835 MHz System Verification****Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 2.97 W/kg

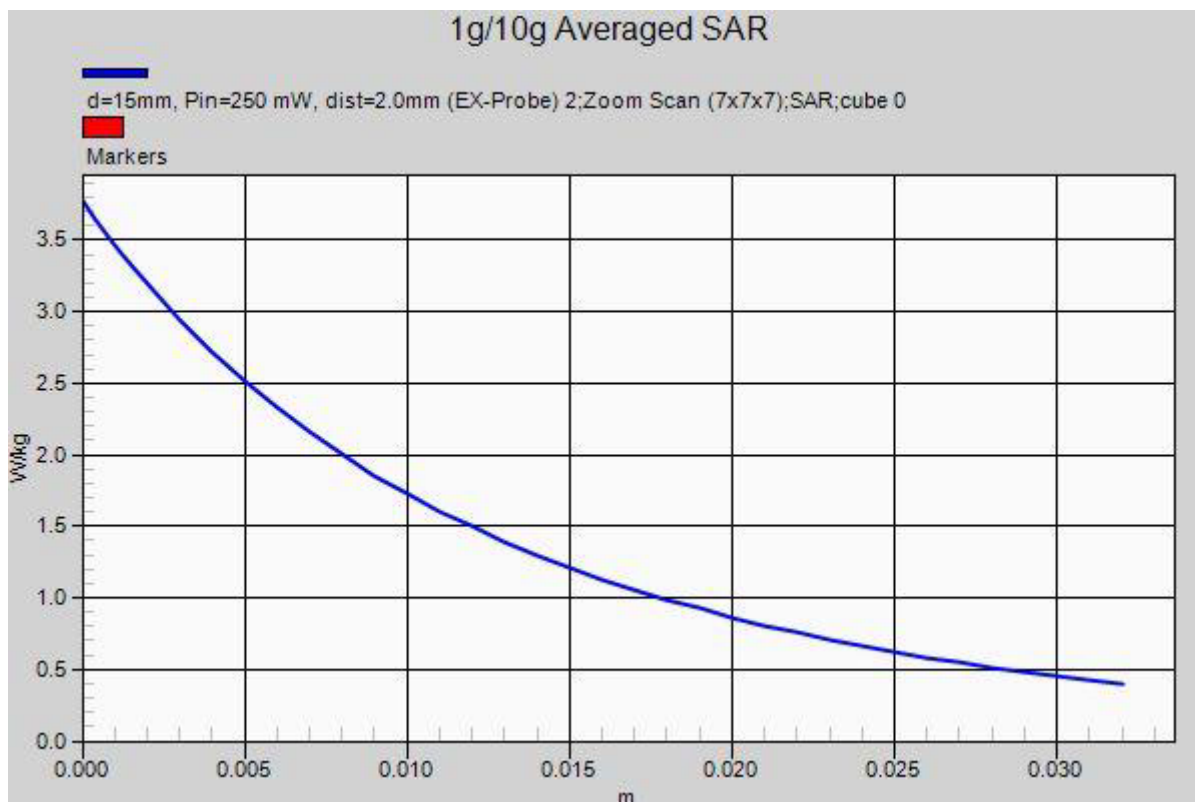
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 57.34 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.77 W/kg

**SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.67 W/kg**

Maximum value of SAR (measured) = 3.20 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=0.906\text{S/m}$ ,  $\epsilon_r=40.715$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3957; ConvF(10.02, 10.02, 10.02); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-18; Ambient Temp: 22.4; Tissue Temp: 22.7

### 835 MHz System Verification

**Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.04 W/kg

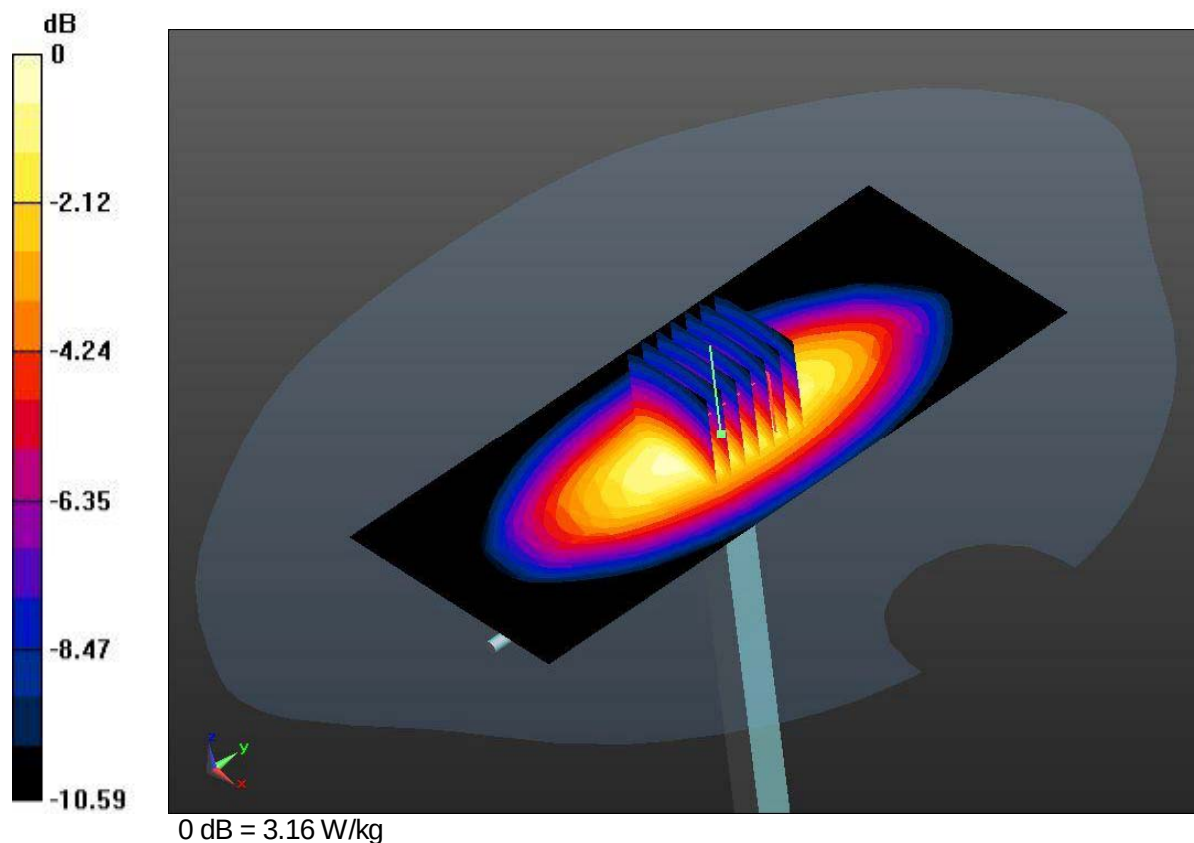
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 60.50 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.75 W/kg

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

Maximum value of SAR (measured) = 3.16 W/kg



**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163**

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=0.906\text{S/m}$ ,  $\epsilon_r=40.715$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(10.02, 10.02, 10.02); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-18; Ambient Temp: 22.4; Tissue Temp: 22.7

**835 MHz System Verification****Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 3.04 W/kg

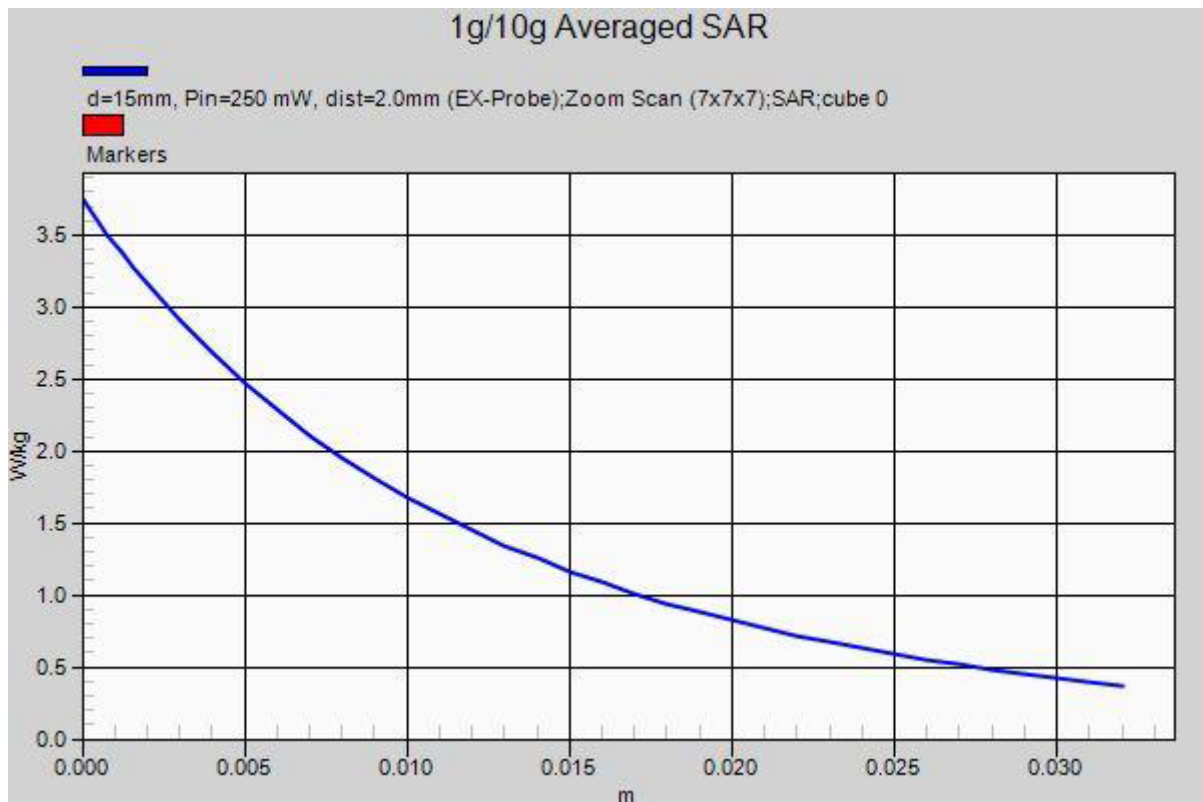
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 60.50 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.75 W/kg

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

Maximum value of SAR (measured) = 3.16 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=1.015\text{S/m}$ ,  $\epsilon_r=55.013$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3957; ConvF(9.78, 9.78, 9.78); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-19; Ambient Temp: 23.8; Tissue Temp: 22.7

### 835 MHz System Verification

**Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.89 W/kg

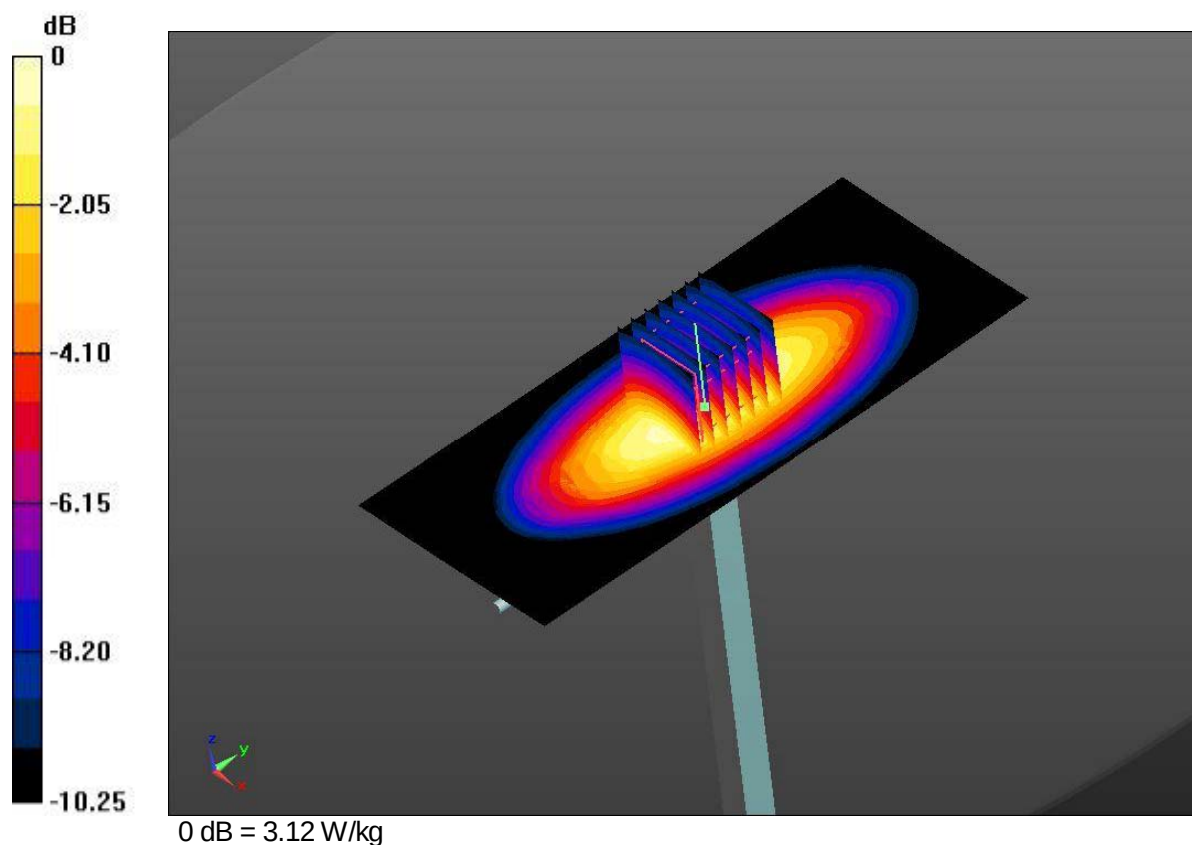
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 56.11 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.68 W/kg

**SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.63 W/kg**

Maximum value of SAR (measured) = 3.12 W/kg



**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163**

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=1.015\text{S/m}$ ,  $\epsilon_r=55.013$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(9.78, 9.78, 9.78); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-19; Ambient Temp: 23.8; Tissue Temp: 22.7

**835 MHz System Verification****Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 2.89 W/kg

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

Reference Value = 56.11 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.68 W/kg

**SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.63 W/kg**

Maximum value of SAR (measured) = 3.12 W/kg



**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163**

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=1.01\text{S/m}$ ,  $\epsilon_r=54.098$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(9.78, 9.78, 9.78); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-22; Ambient Temp: 22.9; Tissue Temp: 23.1

**835 MHz System Verification**

**Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.92 W/kg

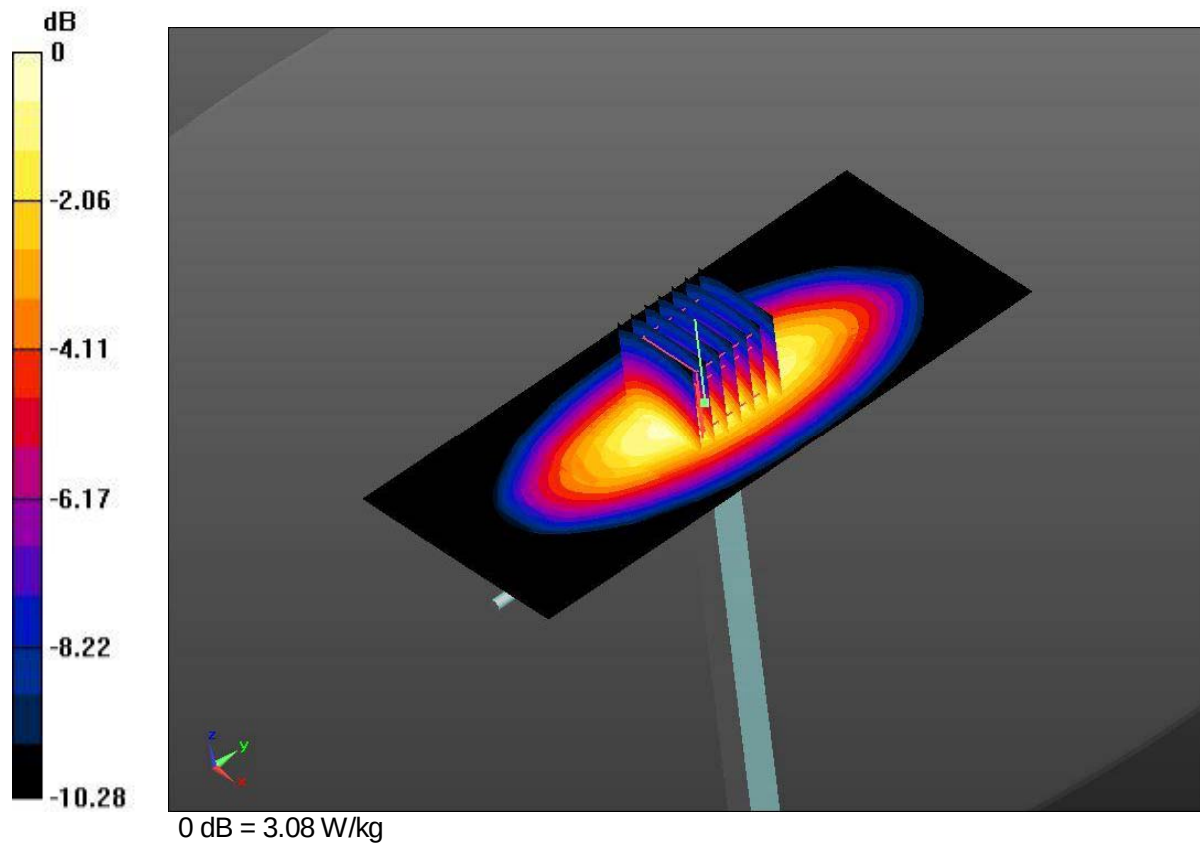
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.78 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.63 W/kg

**SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.60 W/kg**

Maximum value of SAR (measured) = 3.08 W/kg



**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d163**

Communication System: CW; Frequency: 835MHz

Medium parameters used:  $f=835\text{MHz}$ ,  $\sigma=1.01\text{S/m}$ ,  $\epsilon_r=54.098$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(9.78, 9.78, 9.78); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-22; Ambient Temp: 22.9; Tissue Temp: 23.1

**835 MHz System Verification**

**Area Scan (6x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.92 W/kg

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

Reference Value = 55.78 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.63 W/kg

**SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.60 W/kg**

Maximum value of SAR (measured) = 3.08 W/kg



**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d183**

Communication System: CW; Frequency: 1900MHz

Medium parameters used:  $f=1900\text{MHz}$ ,  $\sigma=1.522\text{S/m}$ ,  $\epsilon_r=52.315$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(7.91, 7.91, 7.91); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-23; Ambient Temp: 23.3; Tissue Temp: 23.1

**1900 MHz System Verification**

**Area Scan (5x7x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.6 W/kg

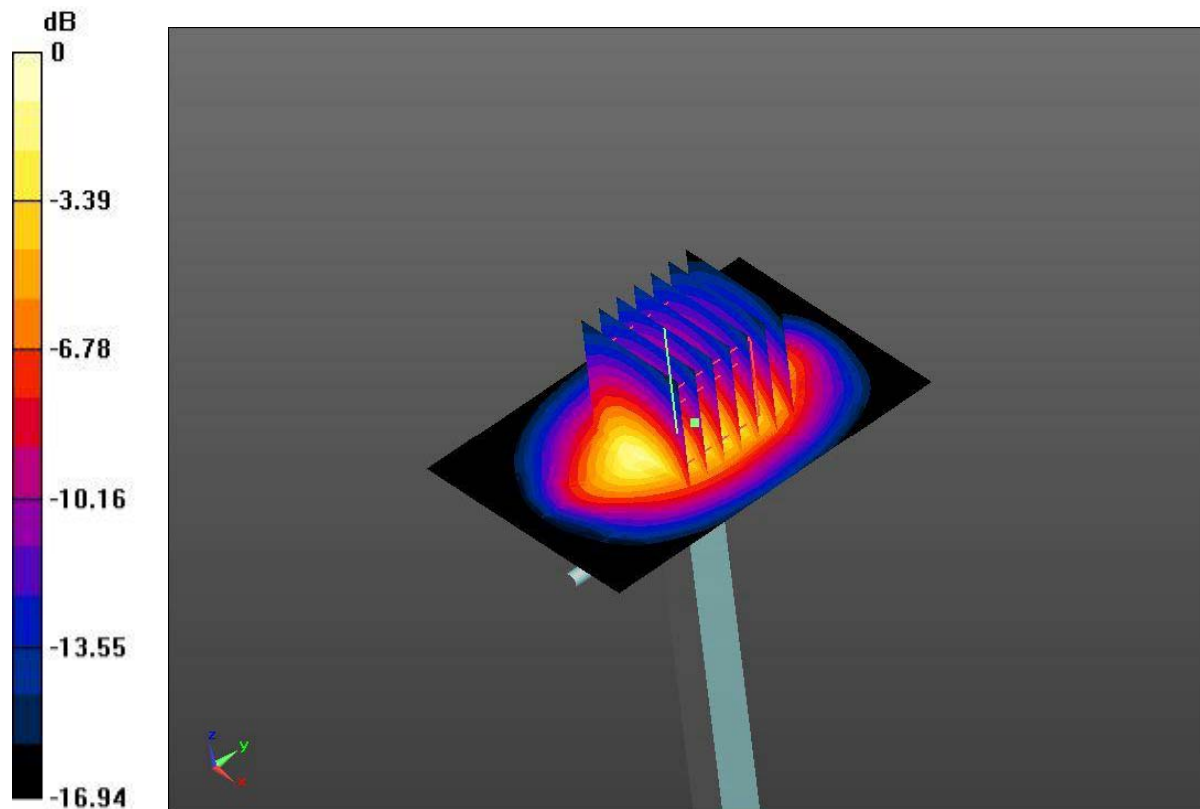
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 95.87 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.5 W/kg

**SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.17 W/kg**

Maximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d183**

Communication System: CW; Frequency: 1900MHz

Medium parameters used:  $f=1900\text{MHz}$ ,  $\sigma=1.522\text{S/m}$ ,  $\epsilon_r=52.315$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(7.91, 7.91, 7.91); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-23; Ambient Temp: 23.3; Tissue Temp: 23.1

**1900 MHz System Verification****Area Scan (5x7x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 13.6 W/kg

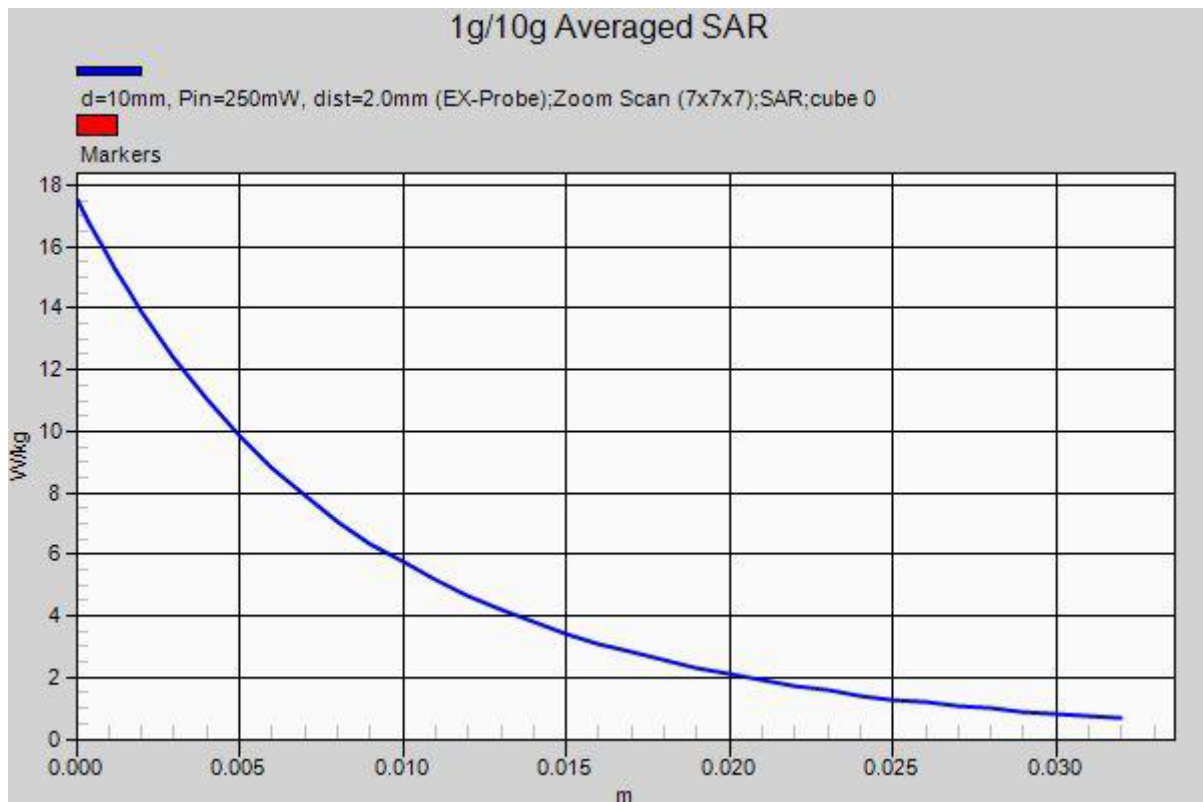
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 95.87 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.5 W/kg

**SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.17 W/kg**

Maximum value of SAR (measured) = 13.8 W/kg



**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d183**

Communication System: CW; Frequency: 1900MHz

Medium parameters used:  $f=1900\text{MHz}$ ,  $\sigma=1.407\text{S/m}$ ,  $\epsilon_r=39.519$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(8.35, 8.35, 8.35); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-24; Ambient Temp: 23.3; Tissue Temp: 23.0

**1900 MHz System Verification**

**Area Scan (5x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.3 W/kg

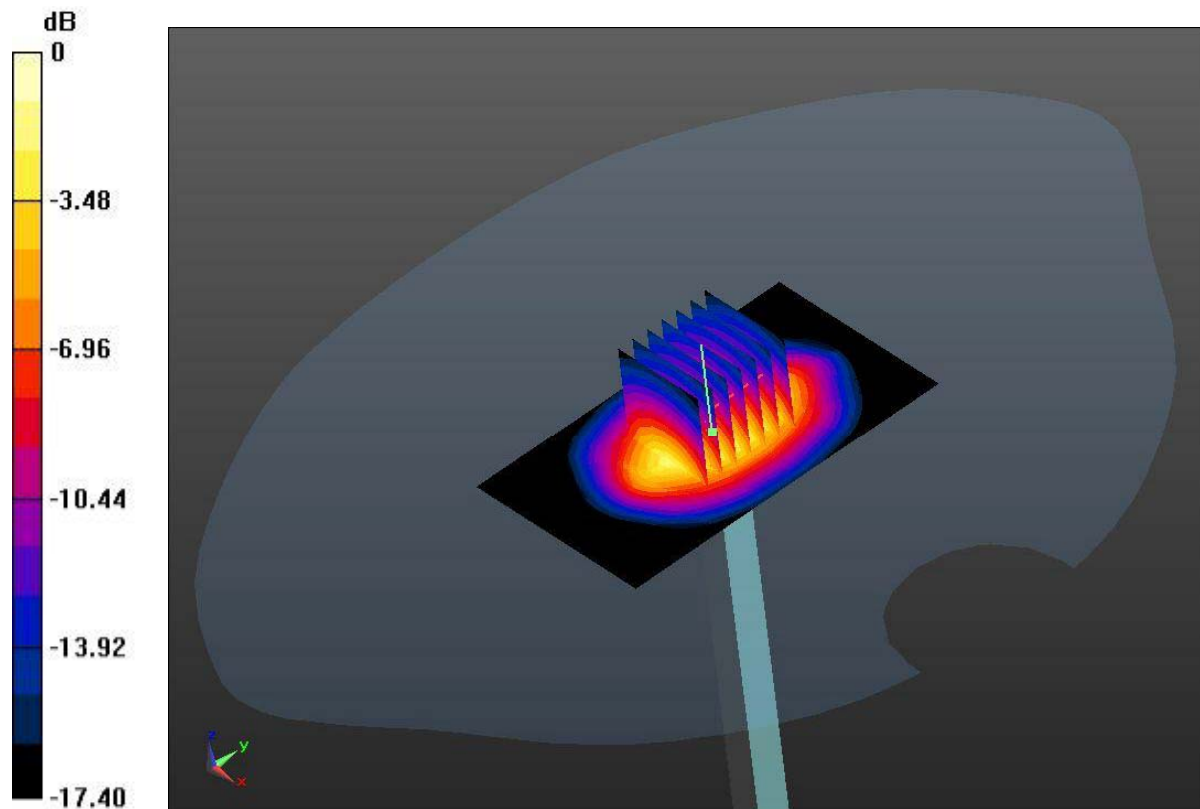
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 100.5 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 9.58 W/kg; SAR(10 g) = 5.00 W/kg**

Maximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d183**

Communication System: CW; Frequency: 1900MHz

Medium parameters used:  $f=1900\text{MHz}$ ,  $\sigma=1.407\text{S/m}$ ,  $\epsilon_r=39.519$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(8.35, 8.35, 8.35); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-24; Ambient Temp: 23.3; Tissue Temp: 23.0

**1900 MHz System Verification****Area Scan (5x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 13.3 W/kg

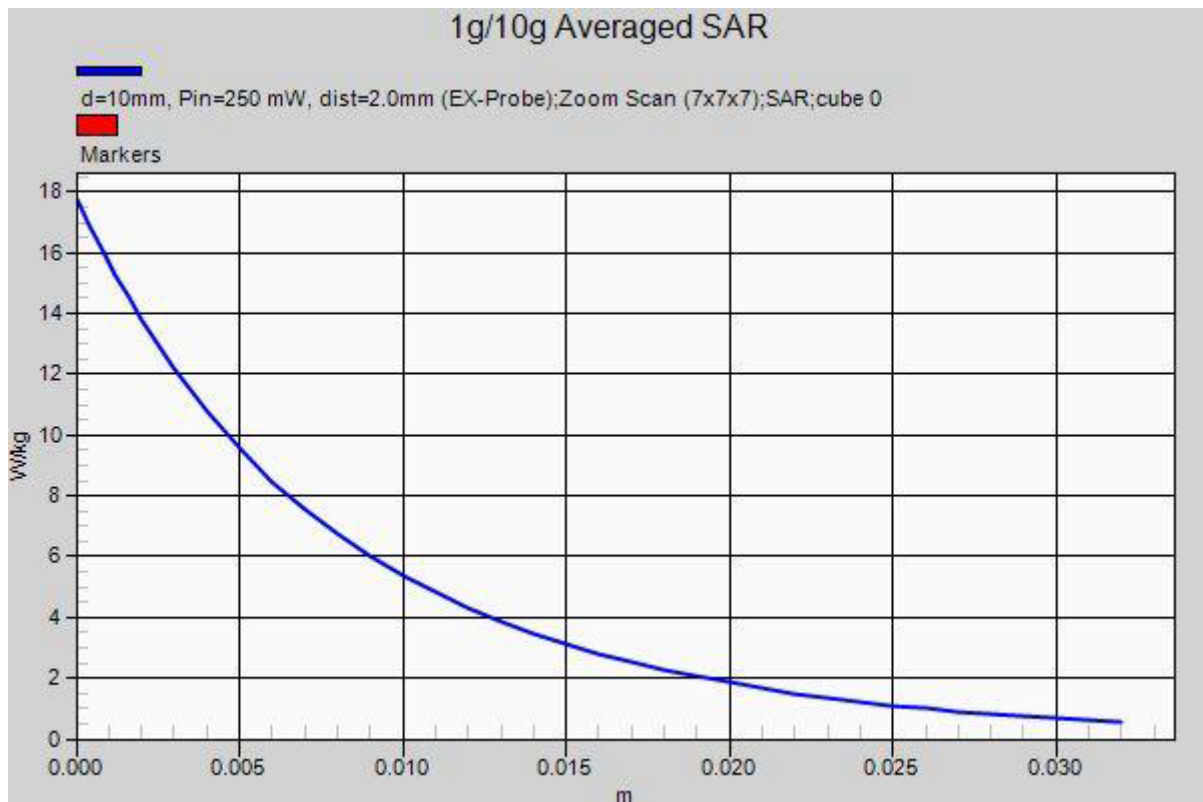
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 100.5 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 17.8 W/kg

**SAR(1 g) = 9.58 W/kg; SAR(10 g) = 5.00 W/kg**

Maximum value of SAR (measured) = 13.8 W/kg



**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d183**

Communication System: CW; Frequency: 1900MHz

Medium parameters used:  $f=1900\text{MHz}$ ,  $\sigma=1.397\text{S/m}$ ,  $\epsilon_r=38.977$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(8.35, 8.35, 8.35); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-25; Ambient Temp: 23.2; Tissue Temp: 22.7

**1900 MHz System Verification**

**Area Scan (5x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.0 W/kg

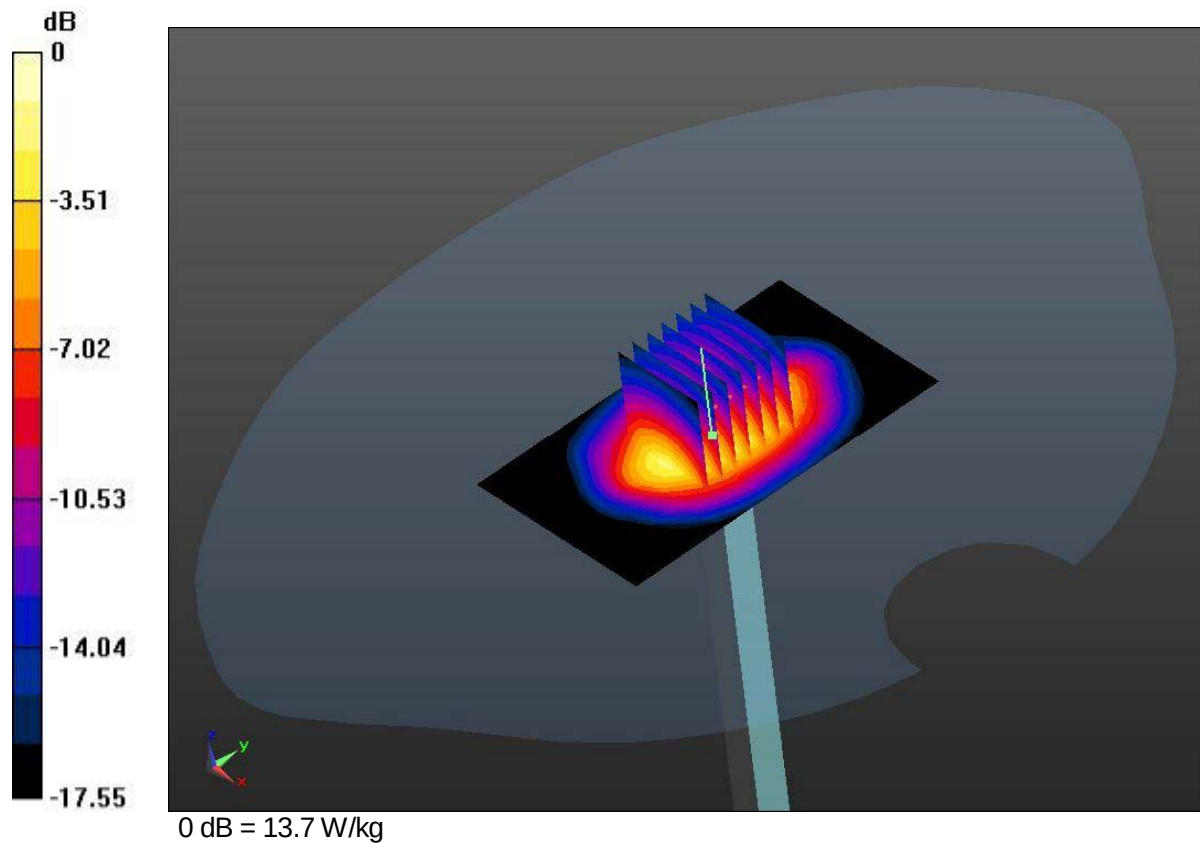
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 99.92 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 17.7 W/kg

**SAR(1 g) = 9.63 W/kg; SAR(10 g) = 5.07 W/kg**

Maximum value of SAR (measured) = 13.7 W/kg



**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d183**

Communication System: CW; Frequency: 1900MHz

Medium parameters used:  $f=1900\text{MHz}$ ,  $\sigma=1.397\text{S/m}$ ,  $\epsilon_r=38.977$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(8.35, 8.35, 8.35); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-25; Ambient Temp: 23.2; Tissue Temp: 22.7

**1900 MHz System Verification****Area Scan (5x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 13.0 W/kg

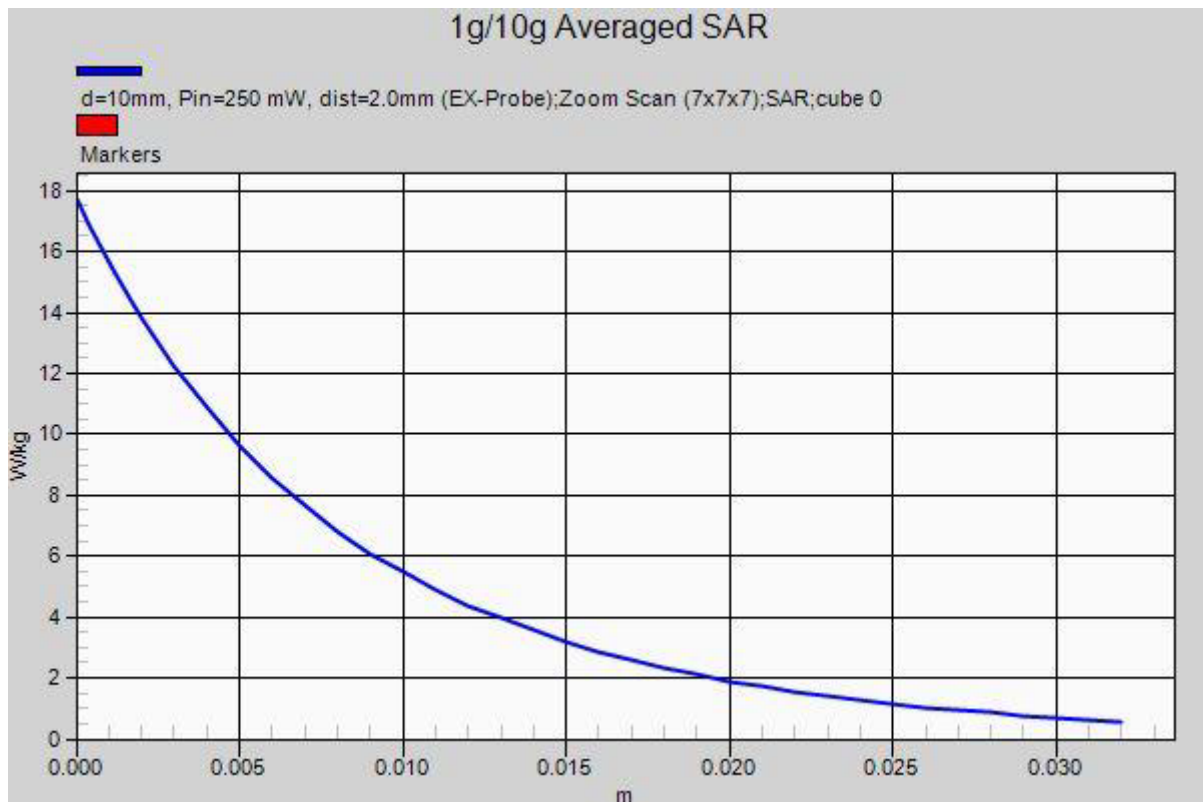
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 99.92 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 17.7 W/kg

**SAR(1 g) = 9.63 W/kg; SAR(10 g) = 5.07 W/kg**

Maximum value of SAR (measured) = 13.7 W/kg



### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d183

Communication System: CW; Frequency: 1900MHz

Medium parameters used:  $f=1900\text{MHz}$ ,  $\sigma=1.548\text{S/m}$ ,  $\epsilon_r=53.188$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3957; ConvF(7.91, 7.91, 7.91); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0$ , 31.0

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-26; Ambient Temp: 23.7; Tissue Temp: 21.5

### 1900 MHz System Verification

**Area Scan (5x7x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.6 W/kg

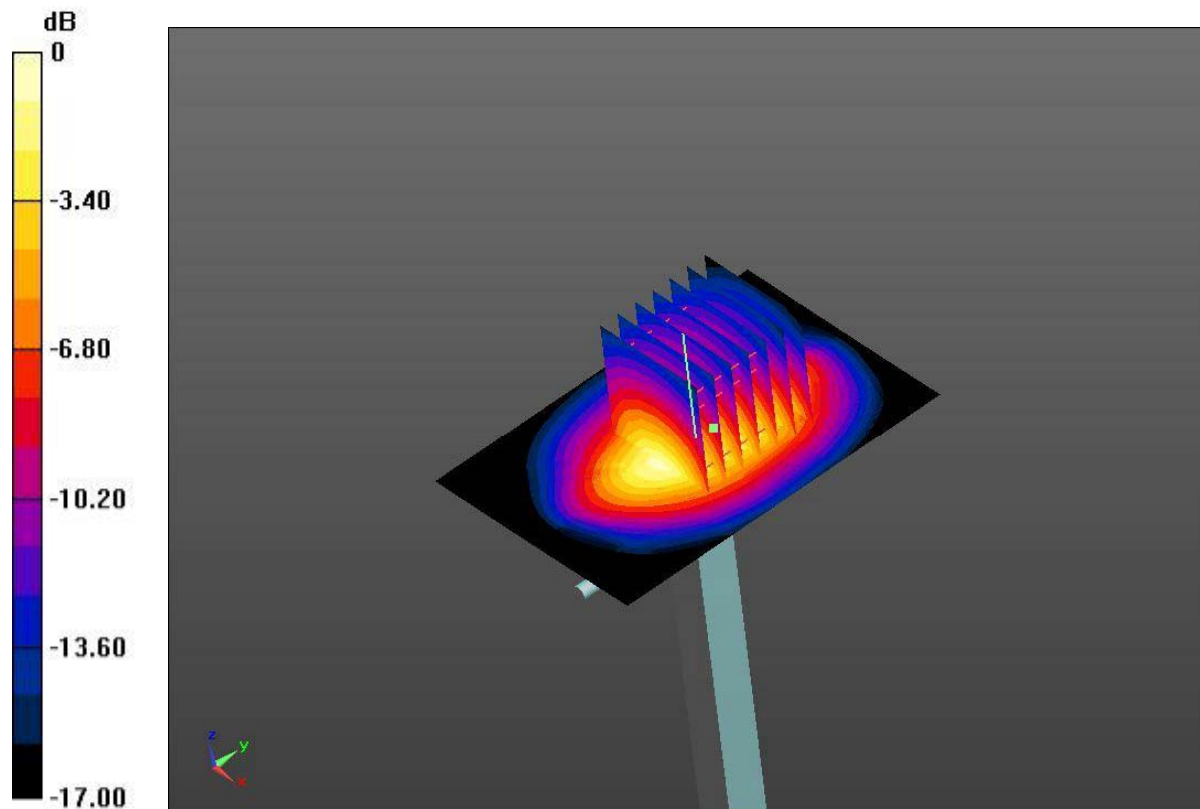
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 94.99 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 17.6 W/kg

**SAR(1 g) = 9.96 W/kg; SAR(10 g) = 5.32 W/kg**

Maximum value of SAR (measured) = 14.0 W/kg



0 dB = 14.0 W/kg

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d183**

Communication System: CW; Frequency: 1900MHz

Medium parameters used:  $f=1900\text{MHz}$ ,  $\sigma=1.548\text{S/m}$ ,  $\epsilon_r=53.188$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(7.91, 7.91, 7.91); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-26; Ambient Temp: 23.7; Tissue Temp: 21.5

**1900 MHz System Verification****Area Scan (5x7x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 13.6 W/kg

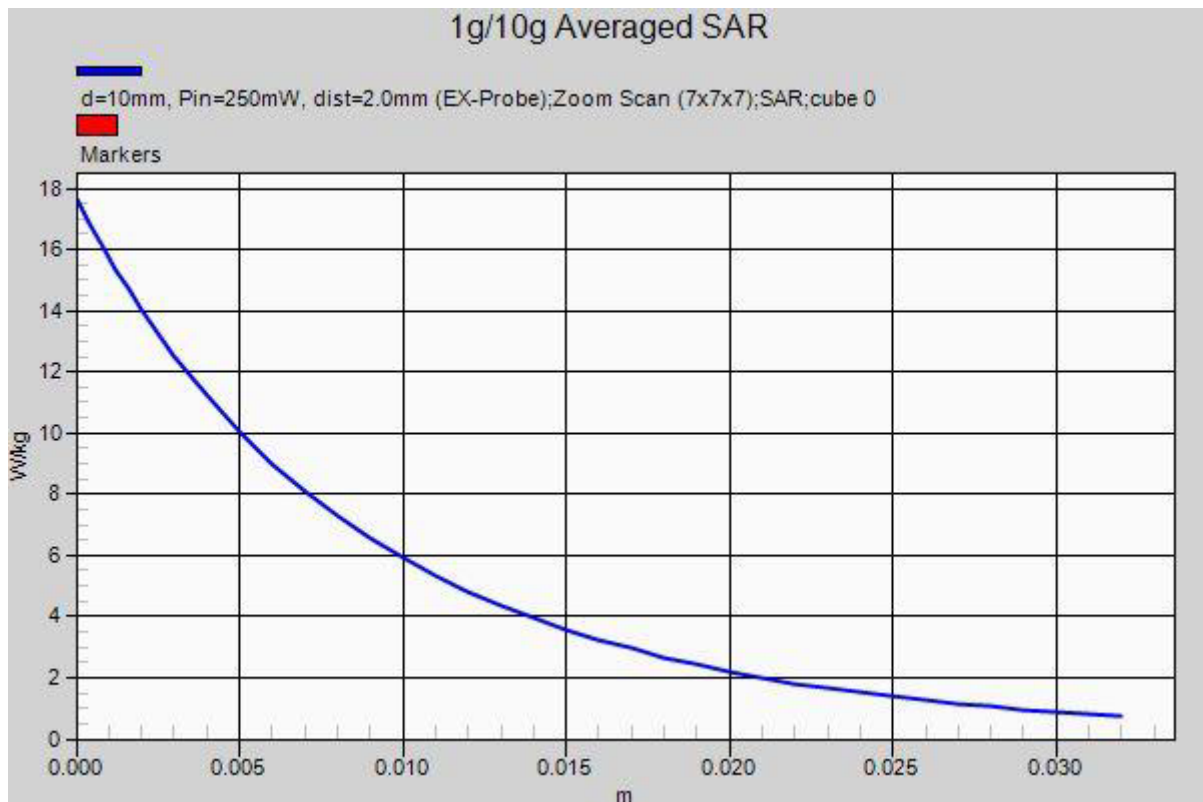
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 94.99 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 17.6 W/kg

**SAR(1 g) = 9.96 W/kg; SAR(10 g) = 5.32 W/kg**

Maximum value of SAR (measured) = 14.0 W/kg



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 925**

Communication System: CW; Frequency: 2450MHz

Medium parameters used:  $f=2450\text{MHz}$ ,  $\sigma=1.851\text{S/m}$ ,  $\epsilon_r=38.838$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(7.49, 7.49, 7.49); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-16; Ambient Temp: 22.9; Tissue Temp: 22.6

**2450 MHz System Verification**

**Area Scan (5x7x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 20.0 W/kg

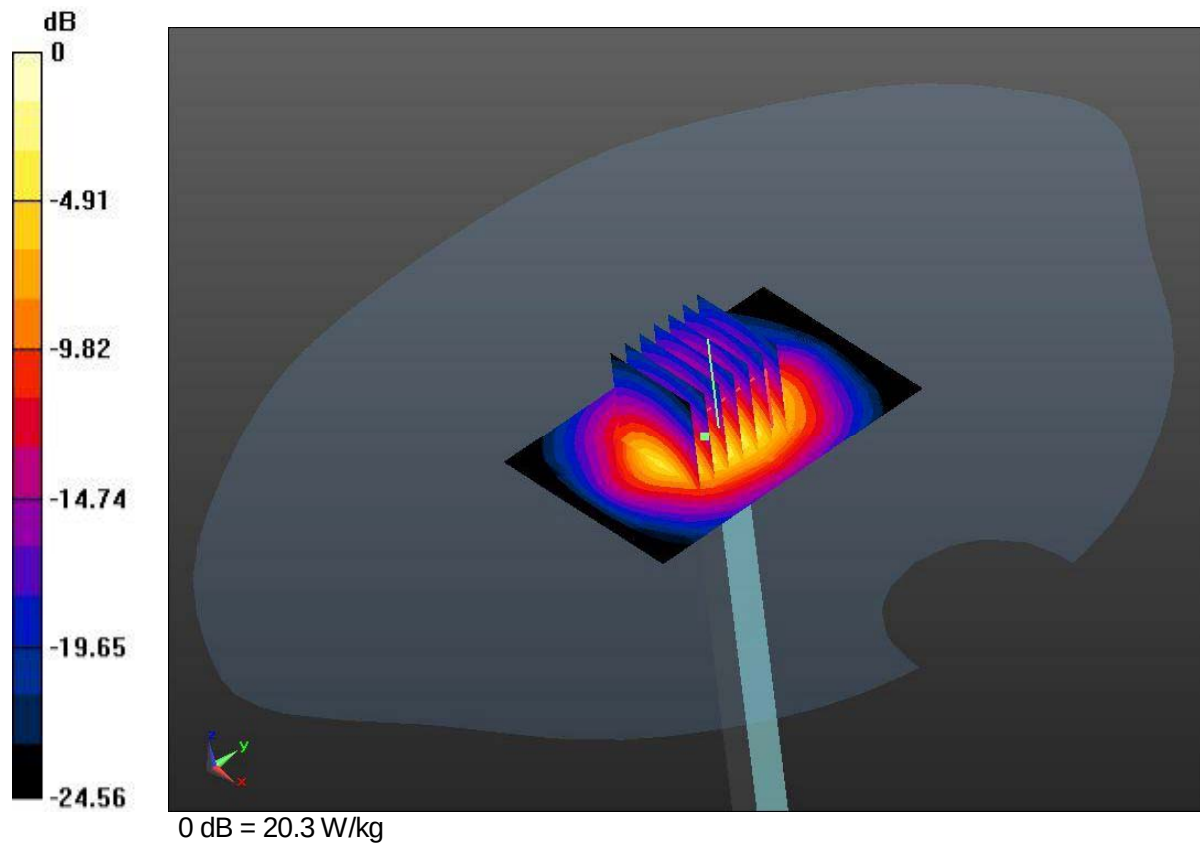
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 105.7 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 28.4 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.92 W/kg**

Maximum value of SAR (measured) = 20.3 W/kg



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 925**

Communication System: CW; Frequency: 2450MHz

Medium parameters used:  $f=2450\text{MHz}$ ,  $\sigma=1.851\text{S/m}$ ,  $\epsilon_r=38.838$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(7.49, 7.49, 7.49); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-16; Ambient Temp: 22.9; Tissue Temp: 22.6

**2450 MHz System Verification****Area Scan (5x7x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 20.0 W/kg

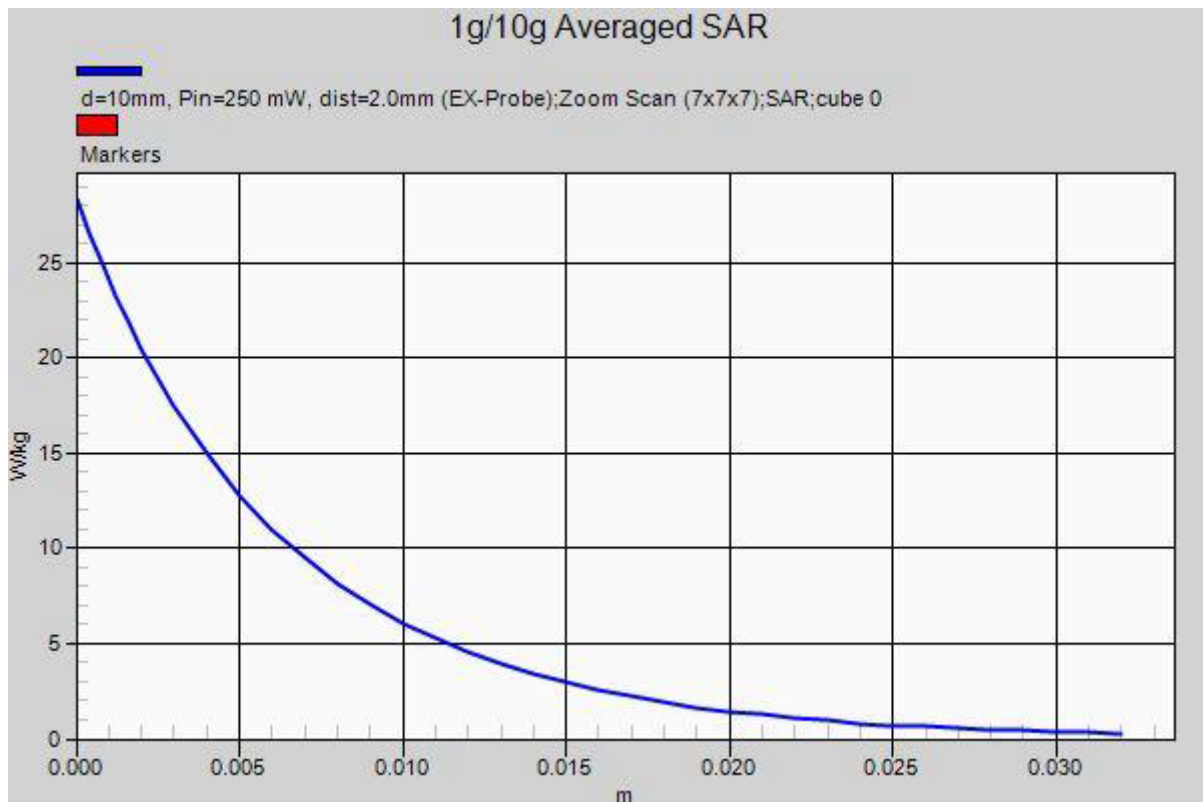
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 105.7 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 28.4 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.92 W/kg**

Maximum value of SAR (measured) = 20.3 W/kg



### DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 925

Communication System: CW; Frequency: 2450MHz

Medium parameters used:  $f=2450\text{MHz}$ ,  $\sigma=1.982\text{S/m}$ ,  $\epsilon_r=52.291$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3957; ConvF(7.33, 7.33, 7.33); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-17; Ambient Temp: 23.6; Tissue Temp: 22.0

### 2450 MHz System Verification

**Area Scan (5x7x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 19.4 W/kg

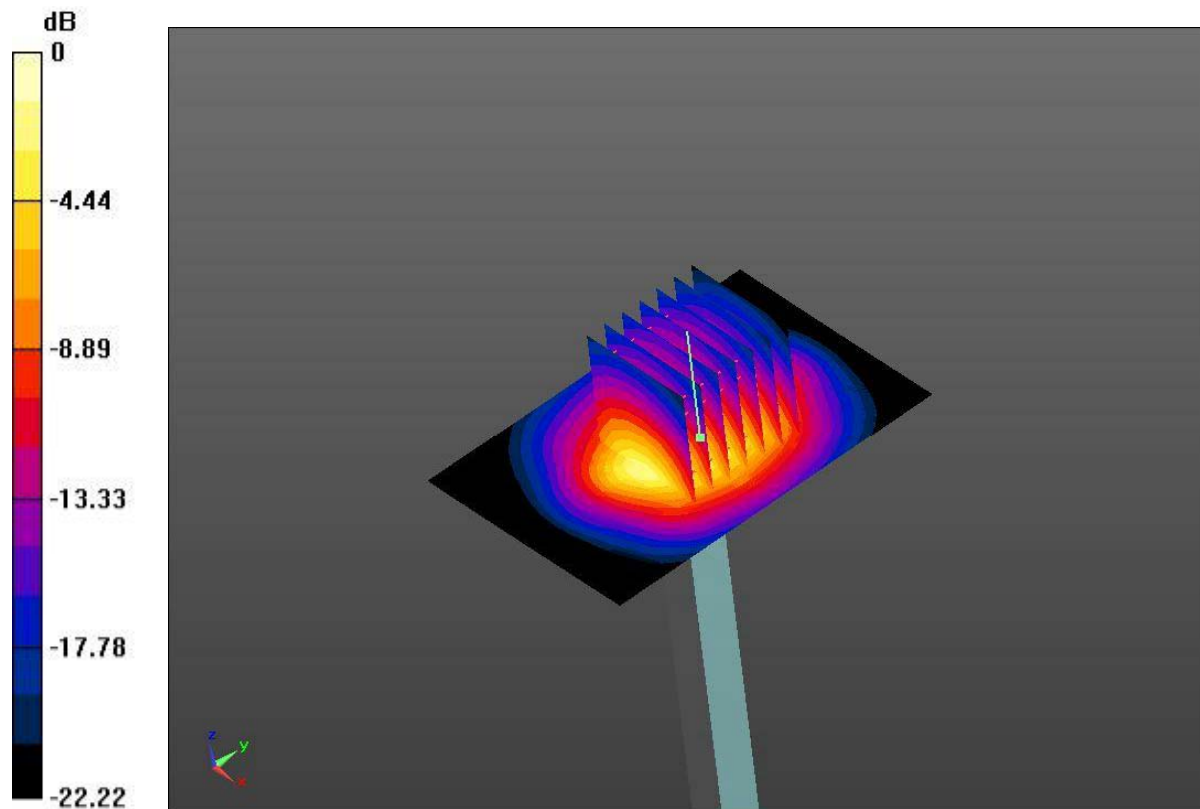
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 99.96 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 26.8 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.12 W/kg**

Maximum value of SAR (measured) = 19.4 W/kg



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 925**

Communication System: CW; Frequency: 2450MHz

Medium parameters used:  $f=2450\text{MHz}$ ,  $\sigma=1.982\text{S/m}$ ,  $\epsilon_r=52.291$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(7.33, 7.33, 7.33); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-17; Ambient Temp: 23.6; Tissue Temp: 22.0

**2450 MHz System Verification**

**Area Scan (5x7x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 19.4 W/kg

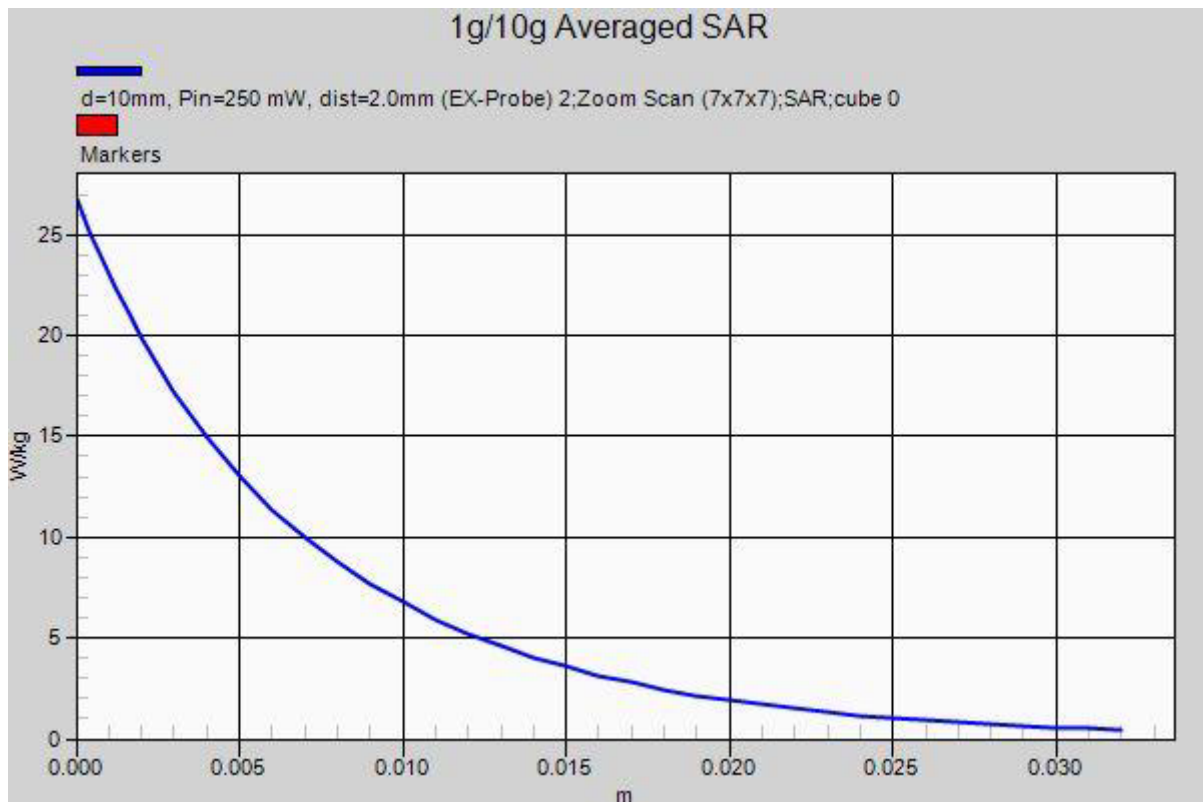
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 99.96 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 26.8 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.12 W/kg**

Maximum value of SAR (measured) = 19.4 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f=5200\text{MHz}$ ,  $\sigma=4.527\text{S/m}$ ,  $\epsilon_r=37.03$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.94, 4.94, 4.94); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 22.1; Tissue Temp: 21.8

**5200 MHz System Verification**

**Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.8 W/kg

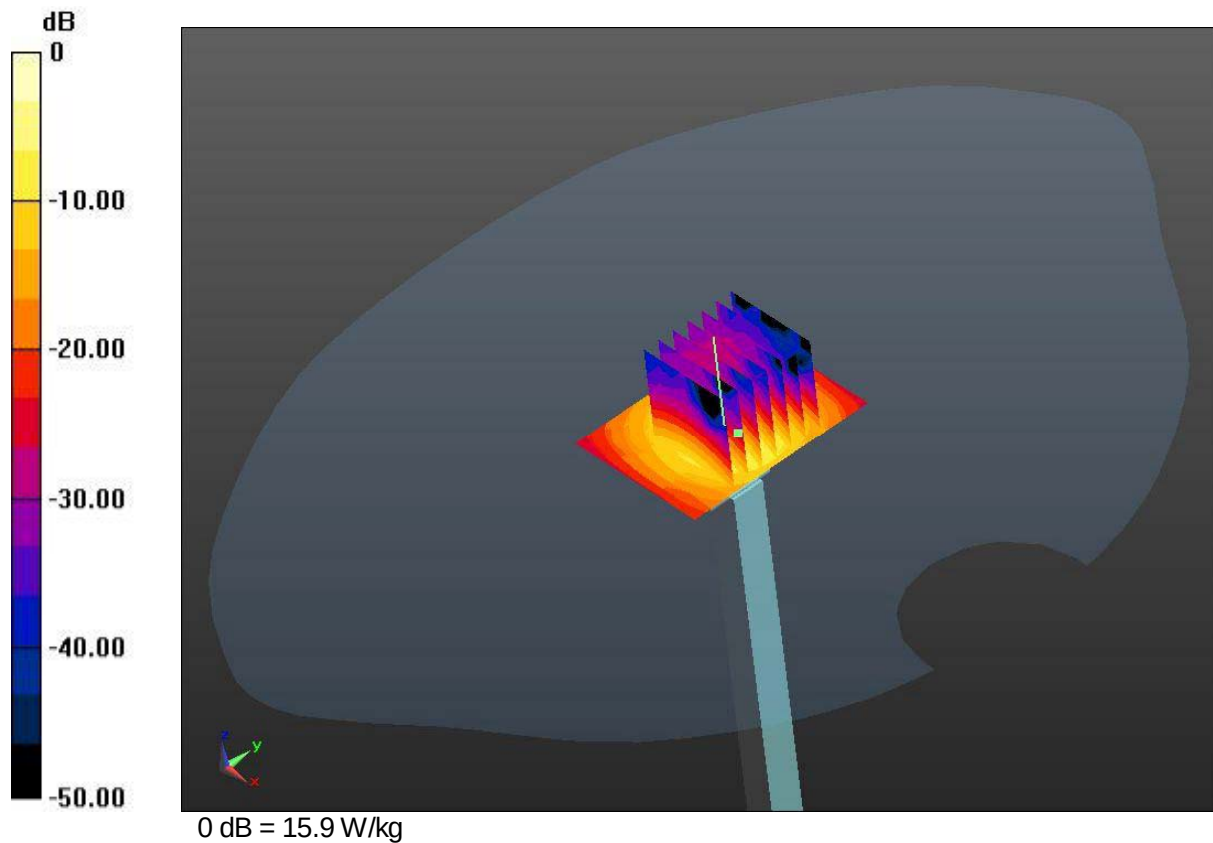
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 66.86 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 31.5 W/kg

**SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.43 W/kg**

Maximum value of SAR (measured) = 15.9 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f=5200\text{MHz}$ ,  $\sigma=4.527\text{S/m}$ ,  $\epsilon_r=37.03$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.94, 4.94, 4.94); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 22.1; Tissue Temp: 21.8

**5200 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 12.8 W/kg

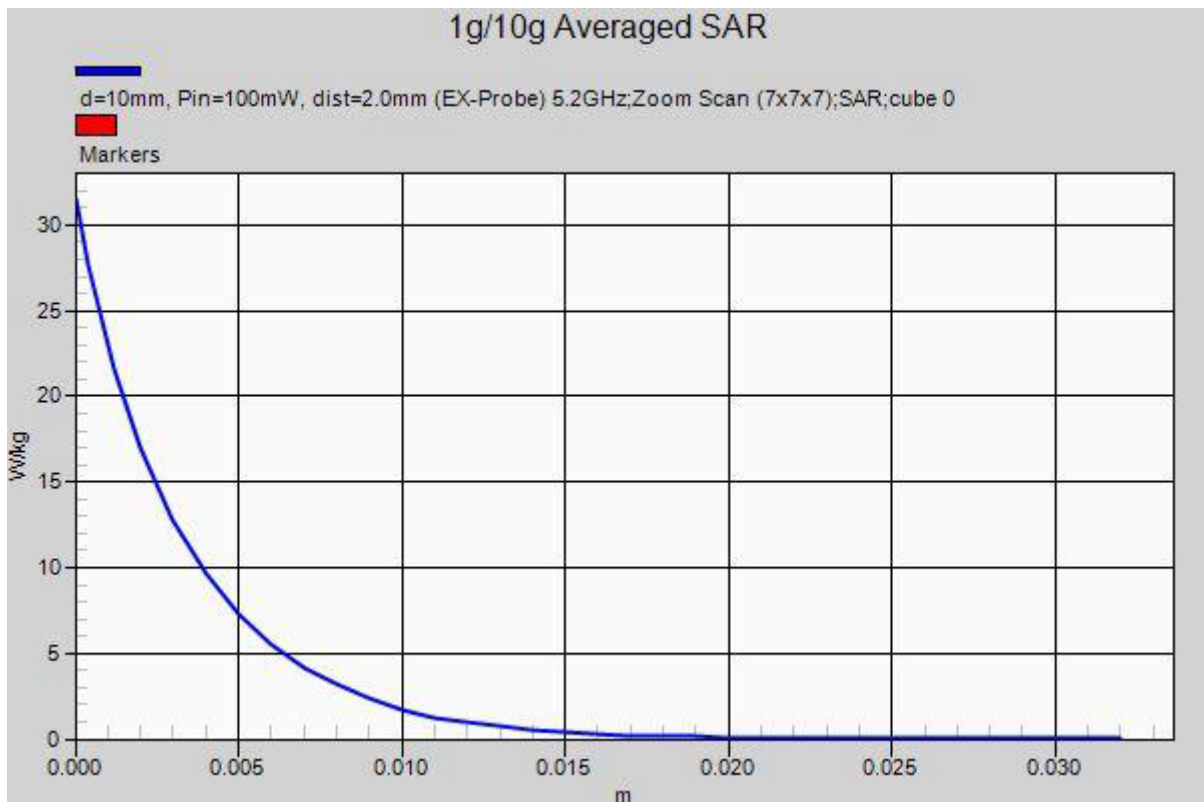
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 66.86 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 31.5 W/kg

**SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.43 W/kg**

Maximum value of SAR (measured) = 15.9 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f=5500\text{MHz}$ ,  $\sigma=4.839\text{S/m}$ ,  $\epsilon_r=36.639$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.81, 4.81, 4.81); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 22.1; Tissue Temp: 21.8

**5500 MHz System Verification**

**Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 14.1 W/kg

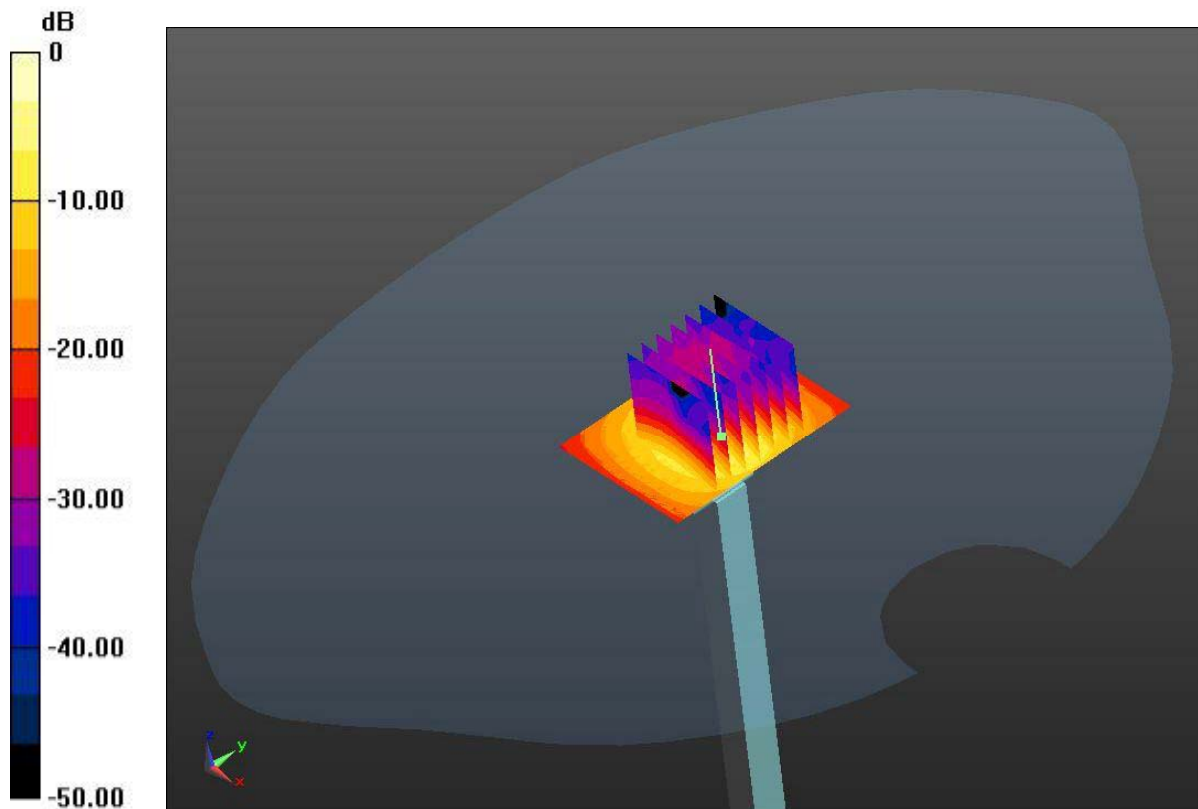
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 63.67 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 37.2 W/kg

**SAR(1 g) = 8.35 W/kg; SAR(10 g) = 2.38 W/kg**

Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f=5500\text{MHz}$ ,  $\sigma=4.839\text{S/m}$ ,  $\epsilon_r=36.639$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.81, 4.81, 4.81); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 22.1; Tissue Temp: 21.8

**5500 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 14.1 W/kg

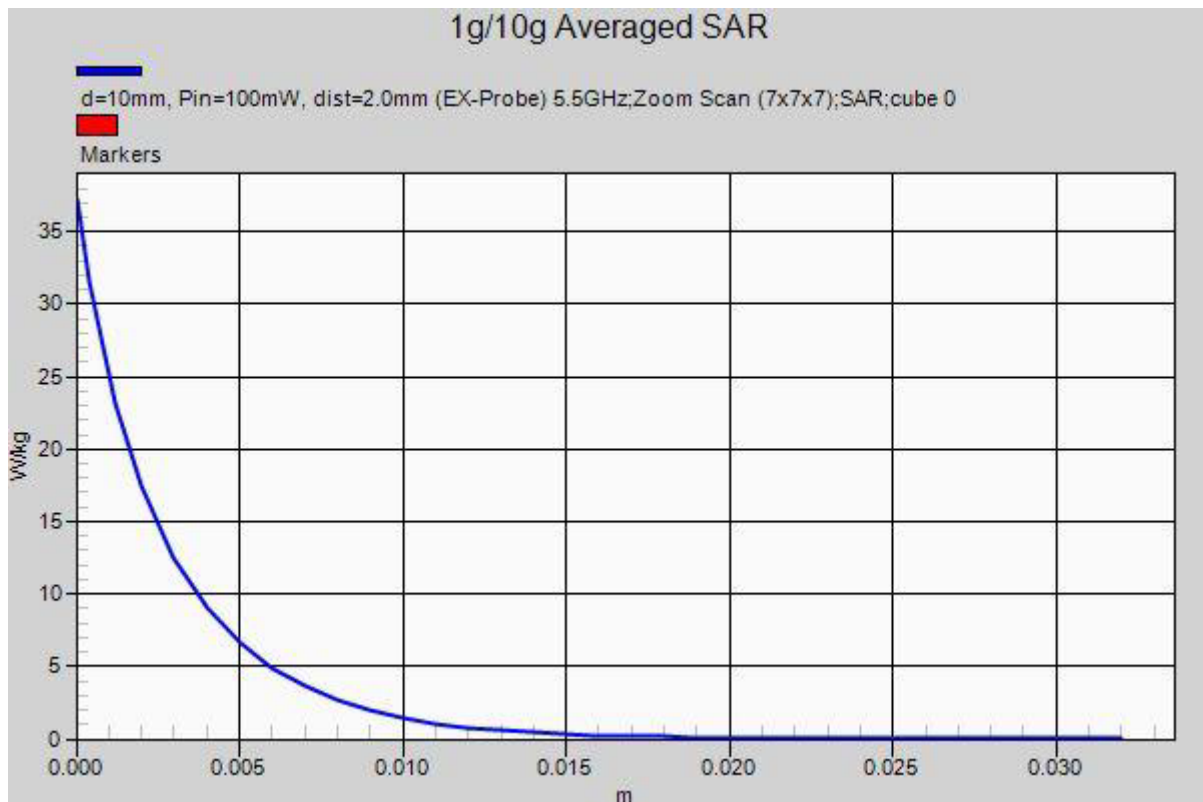
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 63.67 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 37.2 W/kg

**SAR(1 g) = 8.35 W/kg; SAR(10 g) = 2.38 W/kg**

Maximum value of SAR (measured) = 15.6 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f=5800\text{MHz}$ ,  $\sigma=5.131\text{S/m}$ ,  $\epsilon_r=36.274$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.68, 4.68, 4.68); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 22.1; Tissue Temp: 21.8

**5800 MHz System Verification**

**Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.5 W/kg

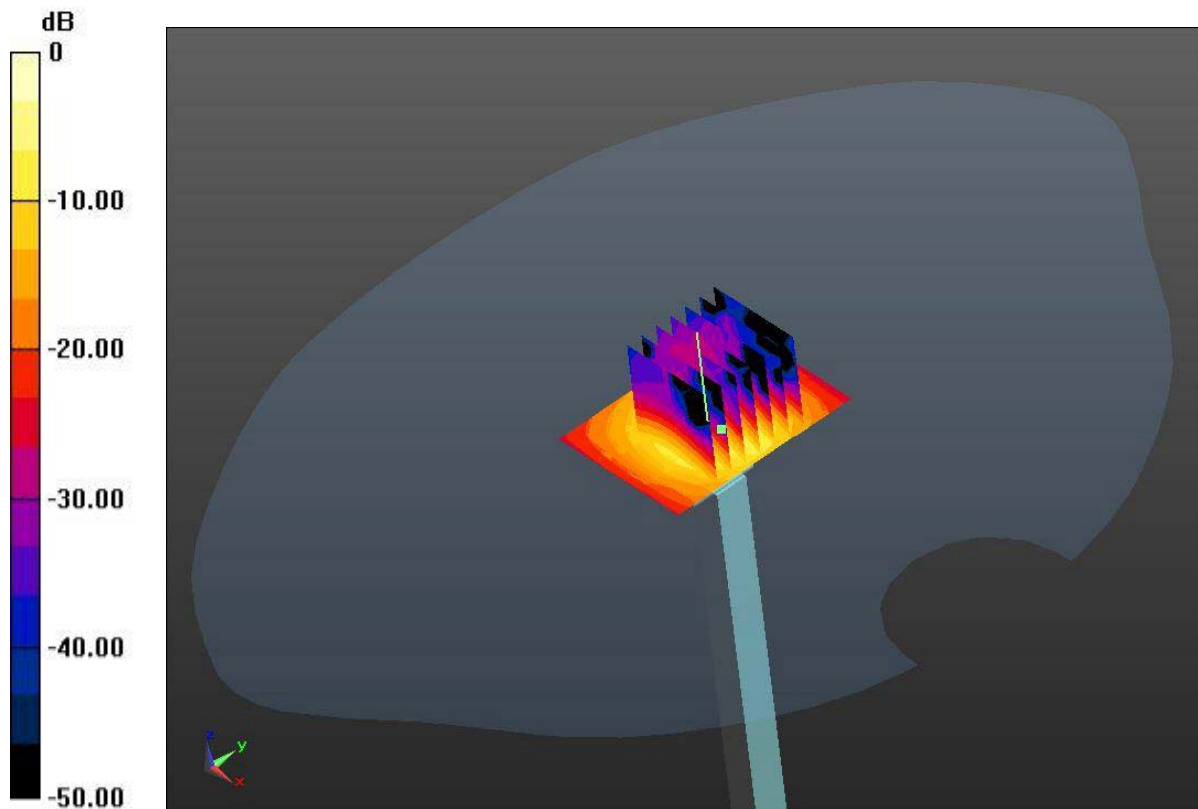
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 59.67 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 36.6 W/kg

**SAR(1 g) = 7.65 W/kg; SAR(10 g) = 2.16 W/kg**

Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f=5800\text{MHz}$ ,  $\sigma=5.131\text{S/m}$ ,  $\epsilon_r=36.274$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.68, 4.68, 4.68); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-27; Ambient Temp: 22.1; Tissue Temp: 21.8

**5800 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 12.5 W/kg

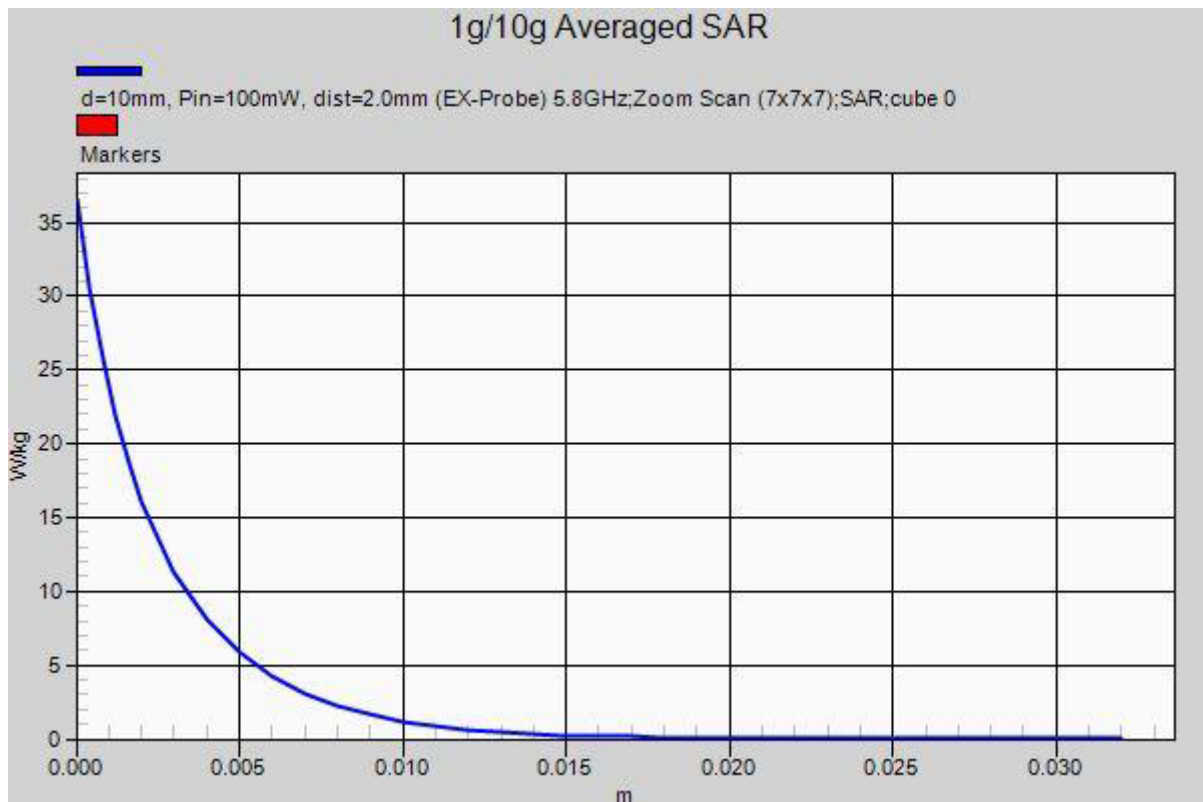
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 59.67 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 36.6 W/kg

**SAR(1 g) = 7.65 W/kg; SAR(10 g) = 2.16 W/kg**

Maximum value of SAR (measured) = 14.5 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f=5200\text{MHz}$ ,  $\sigma=4.54\text{S/m}$ ,  $\epsilon_r=36.565$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.94, 4.94, 4.94); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-29; Ambient Temp: 22.0; Tissue Temp: 21.5

**5200 MHz System Verification**

**Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.8 W/kg

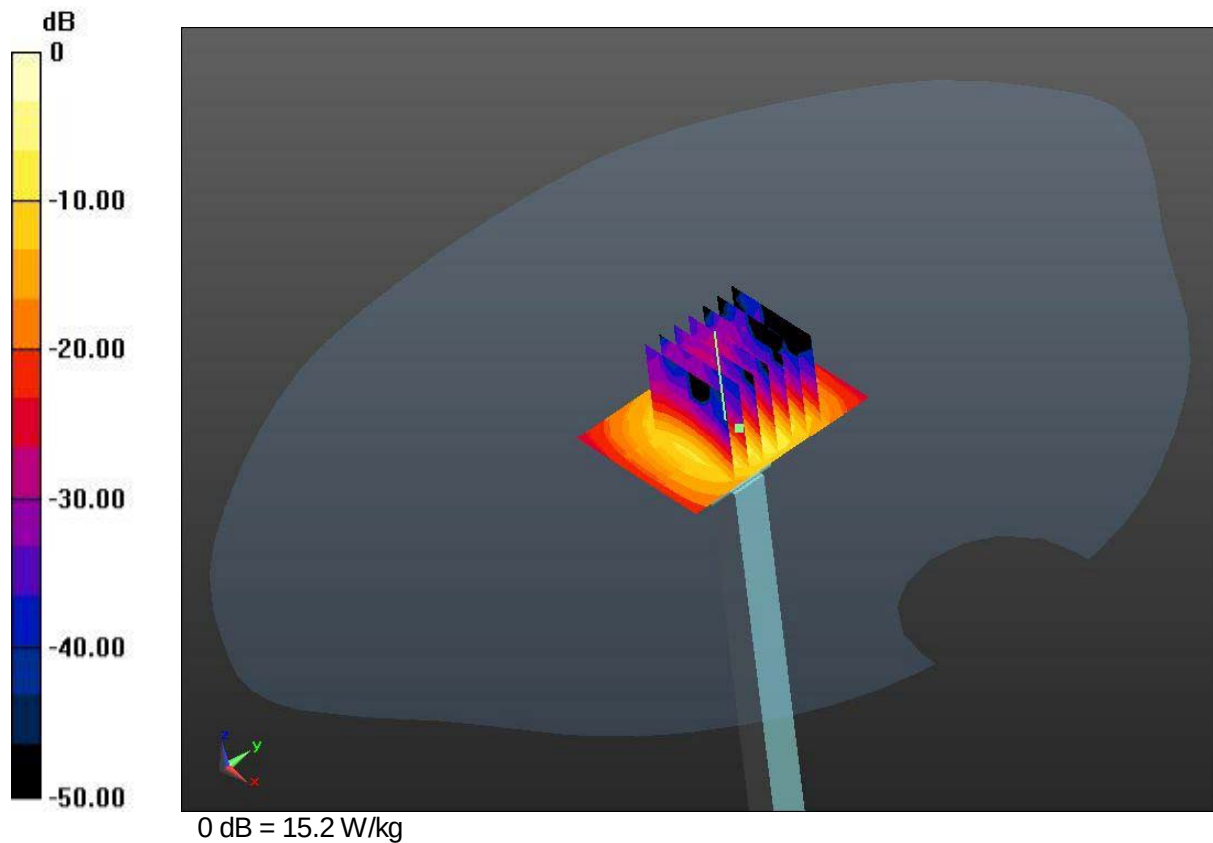
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 65.07 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 30.9 W/kg

**SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.35 W/kg**

Maximum value of SAR (measured) = 15.2 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f=5200\text{MHz}$ ,  $\sigma=4.54\text{S/m}$ ,  $\epsilon_r=36.565$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.94, 4.94, 4.94); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-29; Ambient Temp: 22.0; Tissue Temp: 21.5

**5200 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 12.8 W/kg

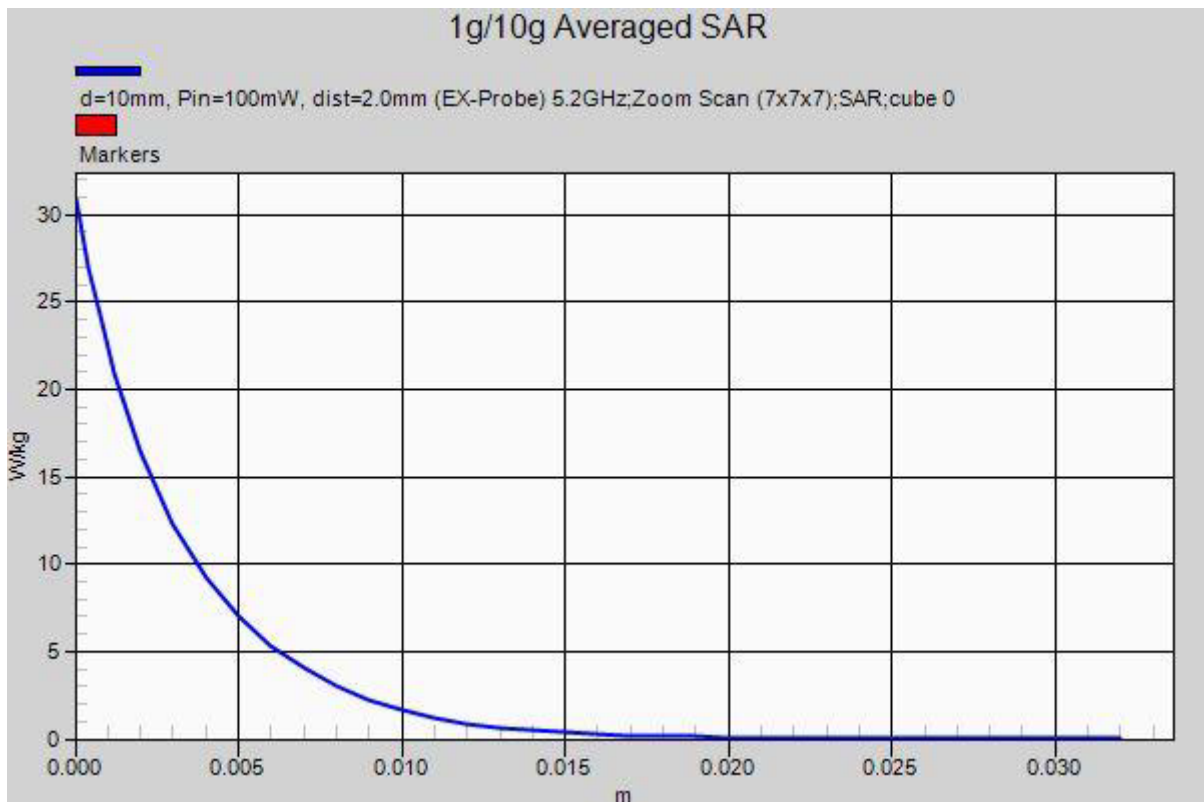
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 65.07 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 30.9 W/kg

**SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.35 W/kg**

Maximum value of SAR (measured) = 15.2 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f=5500\text{MHz}$ ,  $\sigma=4.811\text{S/m}$ ,  $\epsilon_r=36.147$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.81, 4.81, 4.81); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-29; Ambient Temp: 22.0; Tissue Temp: 21.5

**5500 MHz System Verification**

**Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.8 W/kg

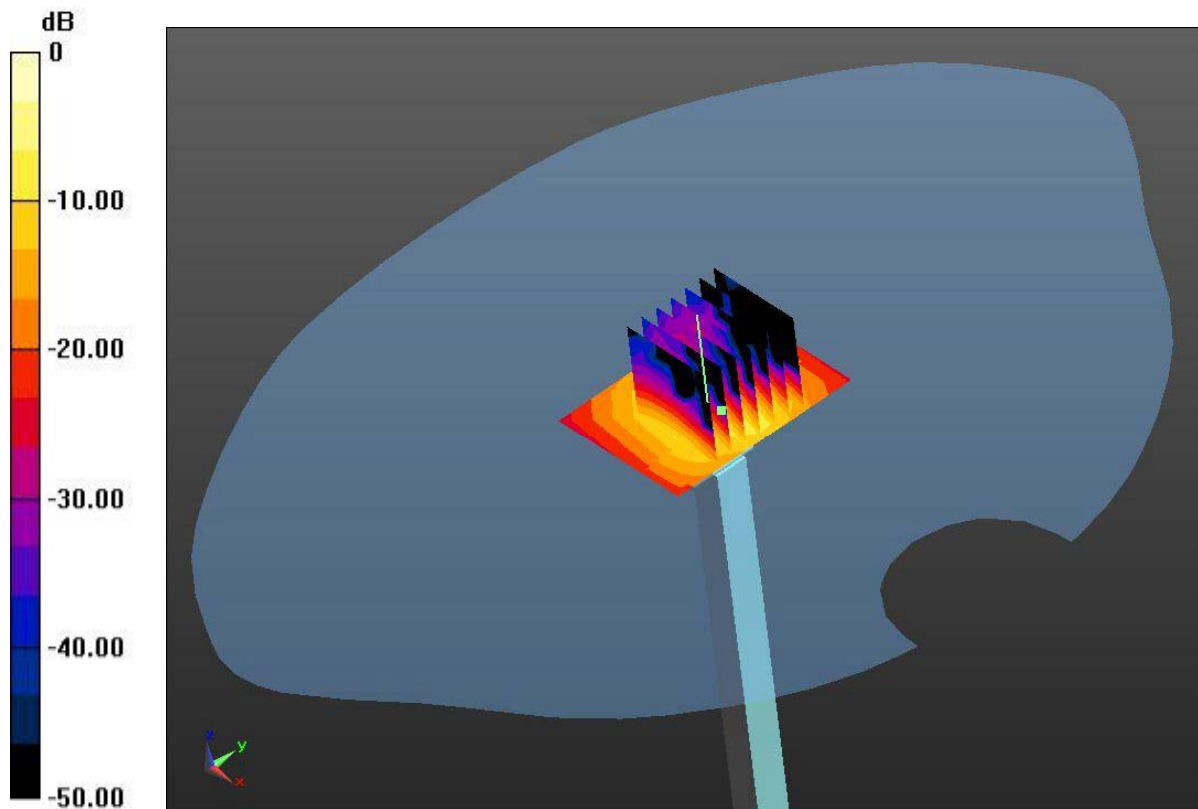
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 64.98 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 39.8 W/kg

**SAR(1 g) = 8.90 W/kg; SAR(10 g) = 2.54 W/kg**

Maximum value of SAR (measured) = 17.6 W/kg



0 dB = 17.6 W/kg

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f=5500\text{MHz}$ ,  $\sigma=4.811\text{S/m}$ ,  $\epsilon_r=36.147$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.81, 4.81, 4.81); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-29; Ambient Temp: 22.0; Tissue Temp: 21.5

**5500 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 13.8 W/kg

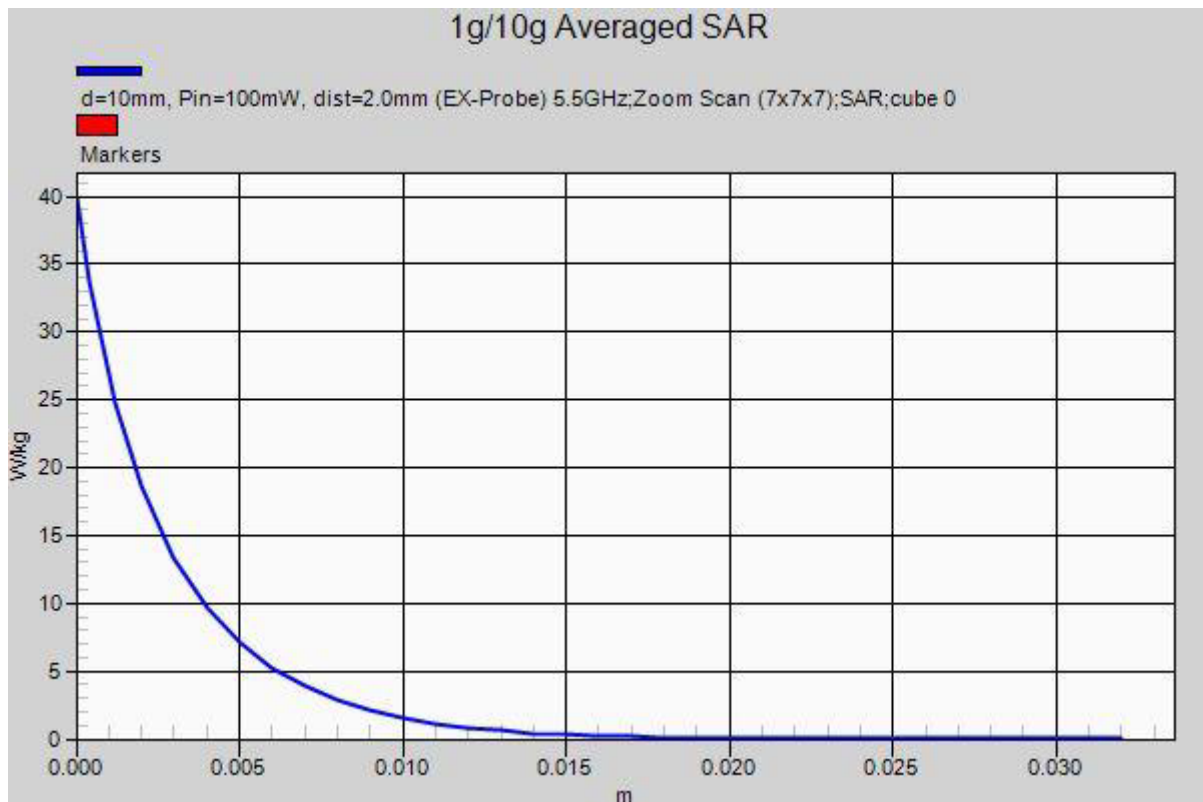
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 64.98 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 39.8 W/kg

**SAR(1 g) = 8.90 W/kg; SAR(10 g) = 2.54 W/kg**

Maximum value of SAR (measured) = 17.6 W/kg



# **DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f=5800\text{MHz}$ ,  $\sigma=5.145\text{S/m}$ ,  $\epsilon_r=35.791$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

## **DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.68, 4.68, 4.68); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-29; Ambient Temp: 22.0; Tissue Temp: 21.5

## **5800 MHz System Verification**

**Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 13.3 W/kg

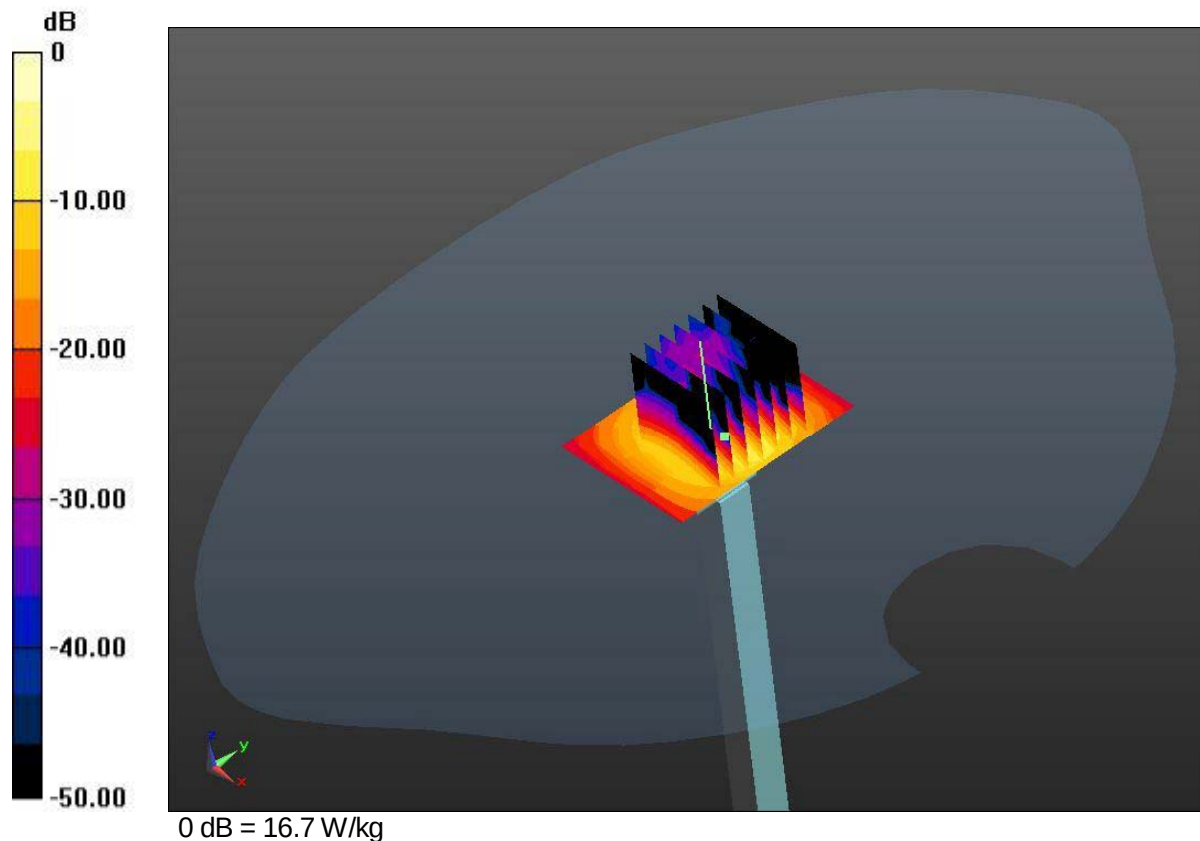
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 61.78 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 40.3 W/kg

**SAR(1 g) = 8.42 W/kg; SAR(10 g) = 2.40 W/kg**

Maximum value of SAR (measured) = 16.7 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f=5800\text{MHz}$ ,  $\sigma=5.145\text{S/m}$ ,  $\epsilon_r=35.791$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.68, 4.68, 4.68); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799

DASY52 52.8 (8);

Test date: 2014-9-29; Ambient Temp: 22.0; Tissue Temp: 21.5

**5800 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 13.3 W/kg

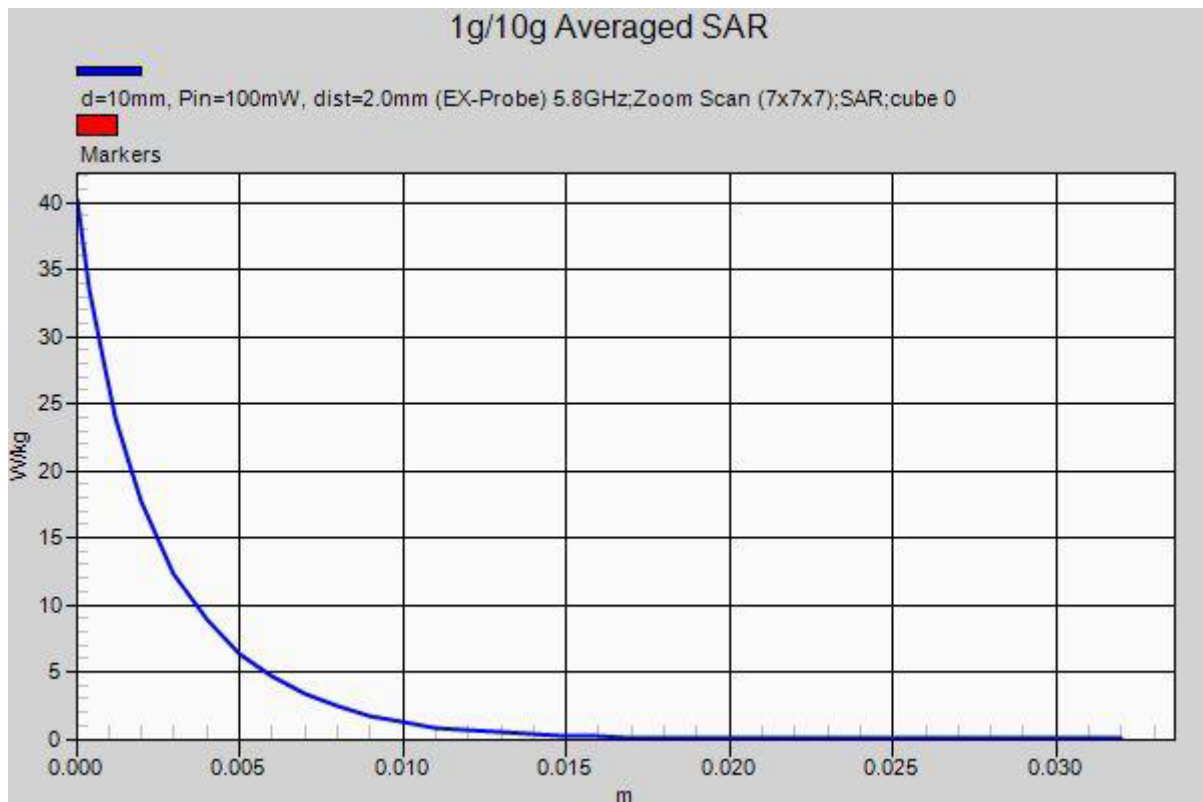
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 61.78 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 40.3 W/kg

**SAR(1 g) = 8.42 W/kg; SAR(10 g) = 2.40 W/kg**

Maximum value of SAR (measured) = 16.7 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f=5200\text{MHz}$ ,  $\sigma=5.369\text{S/m}$ ,  $\epsilon_r=49.486$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.48, 4.48, 4.48); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0$ , 31.0

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-30; Ambient Temp: 23.8; Tissue Temp: 22.9

**5200 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 10.7 W/kg

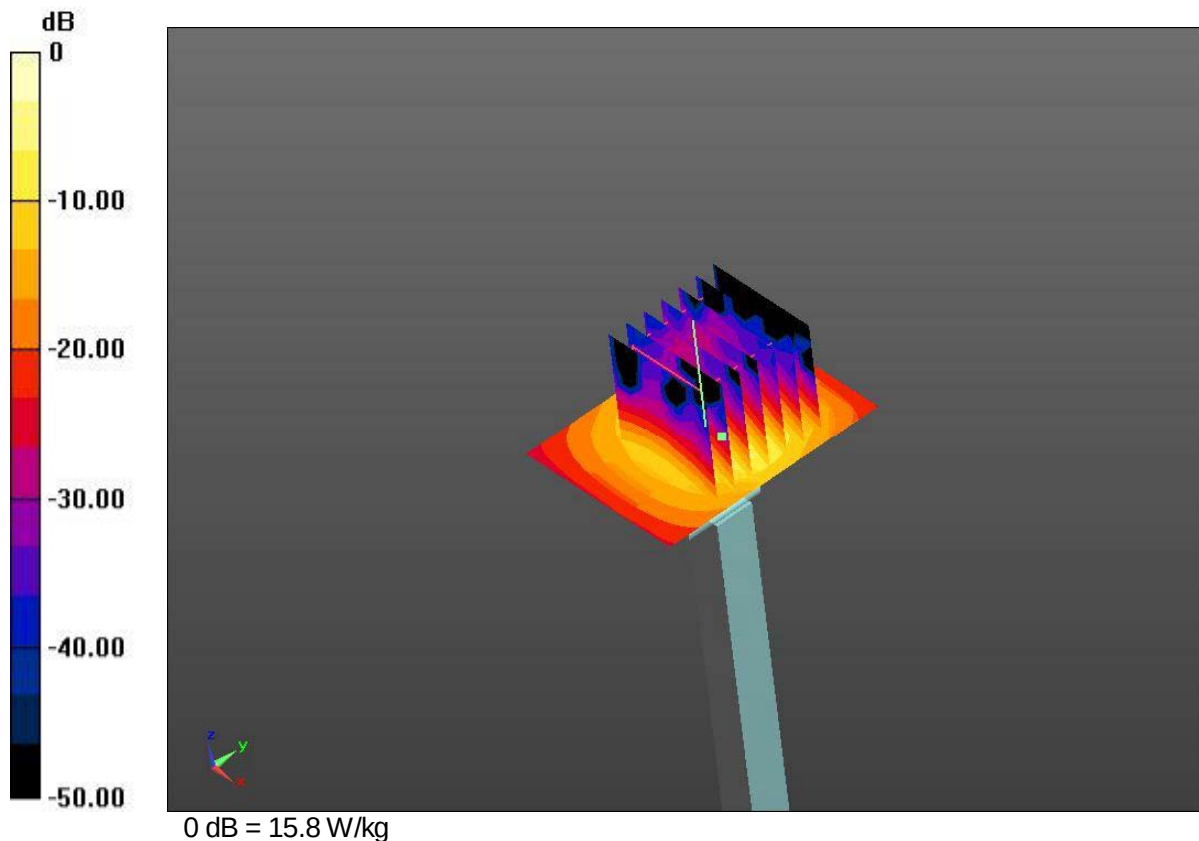
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 58.82 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 33.8 W/kg

**SAR(1 g) = 8.16 W/kg; SAR(10 g) = 2.33 W/kg**

Maximum value of SAR (measured) = 15.8 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f=5200\text{MHz}$ ,  $\sigma=5.369\text{S/m}$ ,  $\epsilon_r=49.486$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.48, 4.48, 4.48); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-30; Ambient Temp: 23.8; Tissue Temp: 22.9

**5200 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 10.7 W/kg

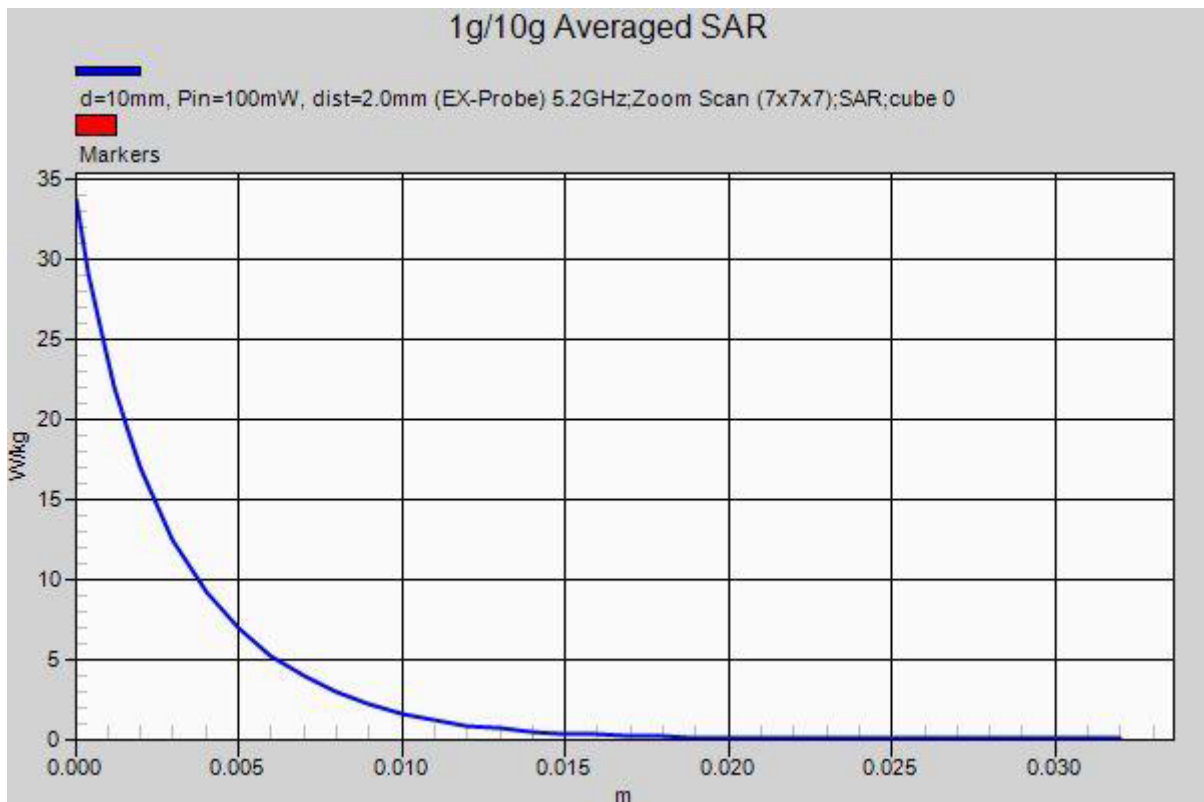
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 58.82 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 33.8 W/kg

**SAR(1 g) = 8.16 W/kg; SAR(10 g) = 2.33 W/kg**

Maximum value of SAR (measured) = 15.8 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f=5500\text{MHz}$ ,  $\sigma=5.758\text{S/m}$ ,  $\epsilon_r=48.955$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4, 4, 4); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-30; Ambient Temp: 23.8; Tissue Temp: 22.9

**5500 MHz System Verification**

**Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.6 W/kg

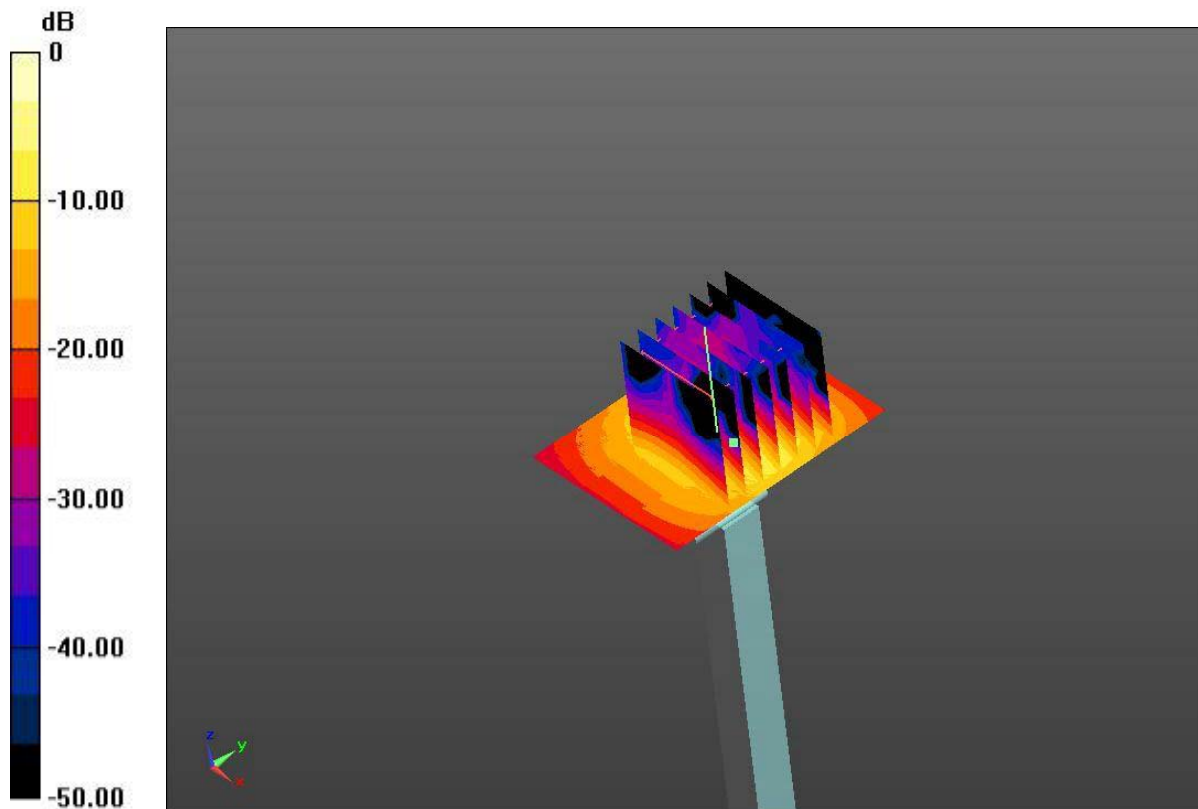
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 59.91 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 38.5 W/kg

**SAR(1 g) = 8.68 W/kg; SAR(10 g) = 2.45 W/kg**

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f=5500\text{MHz}$ ,  $\sigma=5.758\text{S/m}$ ,  $\epsilon_r=48.955$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4, 4, 4); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-30; Ambient Temp: 23.8; Tissue Temp: 22.9

**5500 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 12.6 W/kg

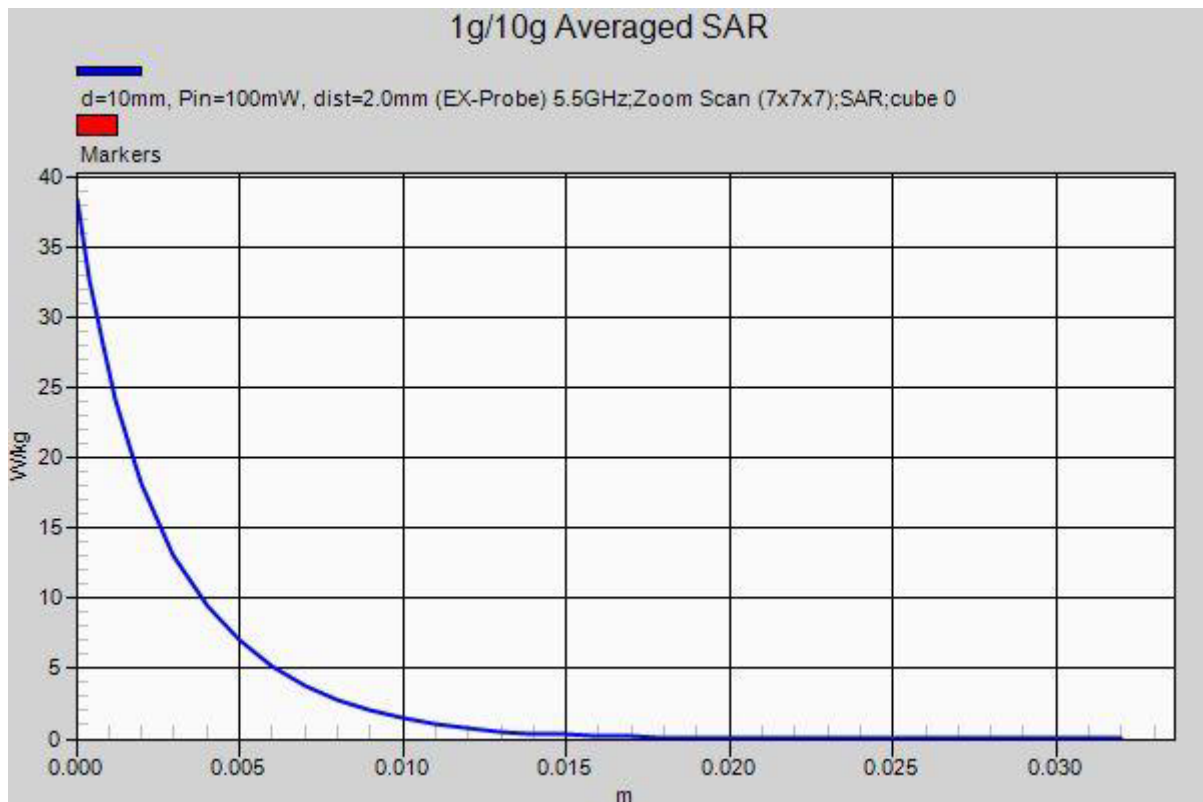
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 59.91 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 38.5 W/kg

**SAR(1 g) = 8.68 W/kg; SAR(10 g) = 2.45 W/kg**

Maximum value of SAR (measured) = 17.7 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f=5800\text{MHz}$ ,  $\sigma=6.187\text{S/m}$ ,  $\epsilon_r=48.476$ ;  $\rho=1000\text{kg/m}^3$

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.07, 4.07, 4.07); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0$ , 31.0

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-30; Ambient Temp: 23.8; Tissue Temp: 22.9

**5800 MHz System Verification**

**Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 11.2 W/kg

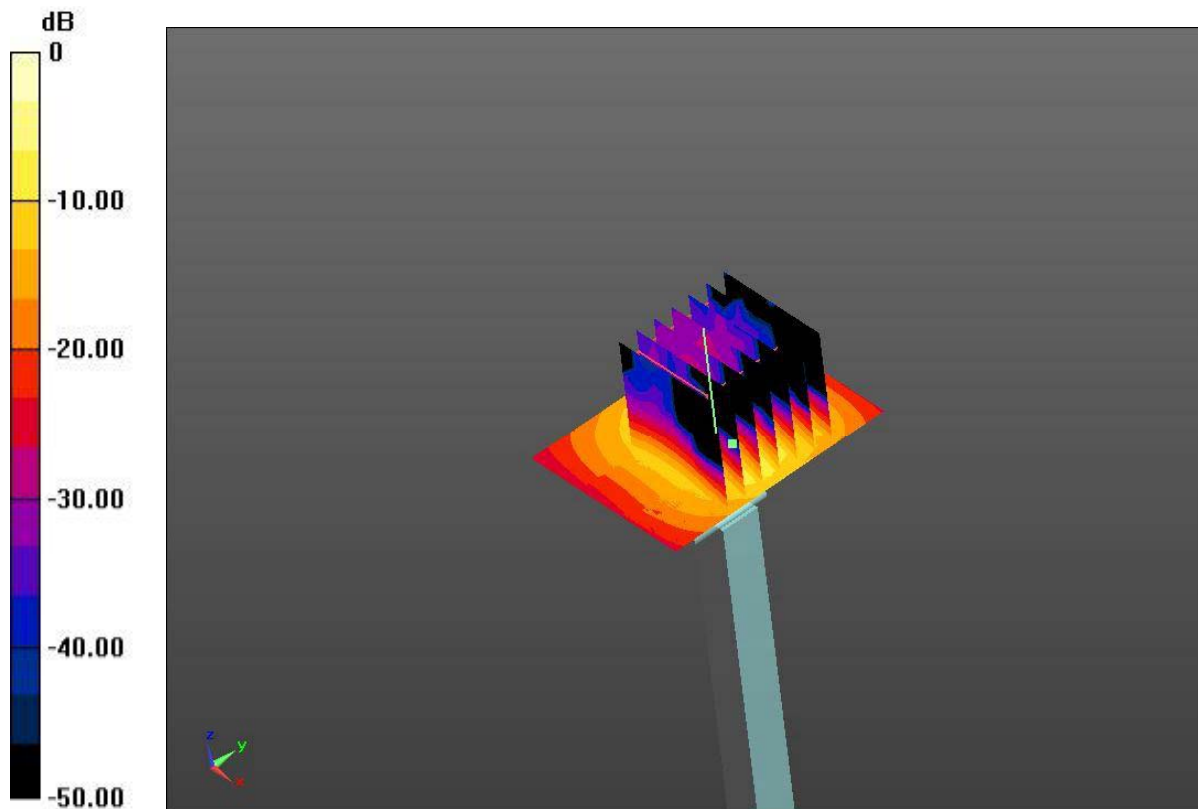
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.84 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 38.7 W/kg

**SAR(1 g) = 7.99 W/kg; SAR(10 g) = 2.26 W/kg**

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg

**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1166**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f=5800\text{MHz}$ ,  $\sigma=6.187\text{S/m}$ ,  $\epsilon_r=48.476$ ;  $\rho=1000\text{kg/m}^3$ 

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3957; ConvF(4.07, 4.07, 4.07); Calibrated: 12/3/2013;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$ 

Electronics: DAE4 Sn1409; Calibrated: 11/22/2013

Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230

DASY52 52.8 (8);

Test date: 2014-9-30; Ambient Temp: 23.8; Tissue Temp: 22.9

**5800 MHz System Verification****Area Scan (4x5x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 11.2 W/kg

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

Reference Value = 55.84 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 38.7 W/kg

**SAR(1 g) = 7.99 W/kg; SAR(10 g) = 2.26 W/kg**

Maximum value of SAR (measured) = 16.6 W/kg

