

## Dipole Verification Plots

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d104**

Communication System: CW; Frequency: 835MHz  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 41.704$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(8.92, 8.92, 8.92); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 Measurement SW: DASY52, Version 52.8 (8)

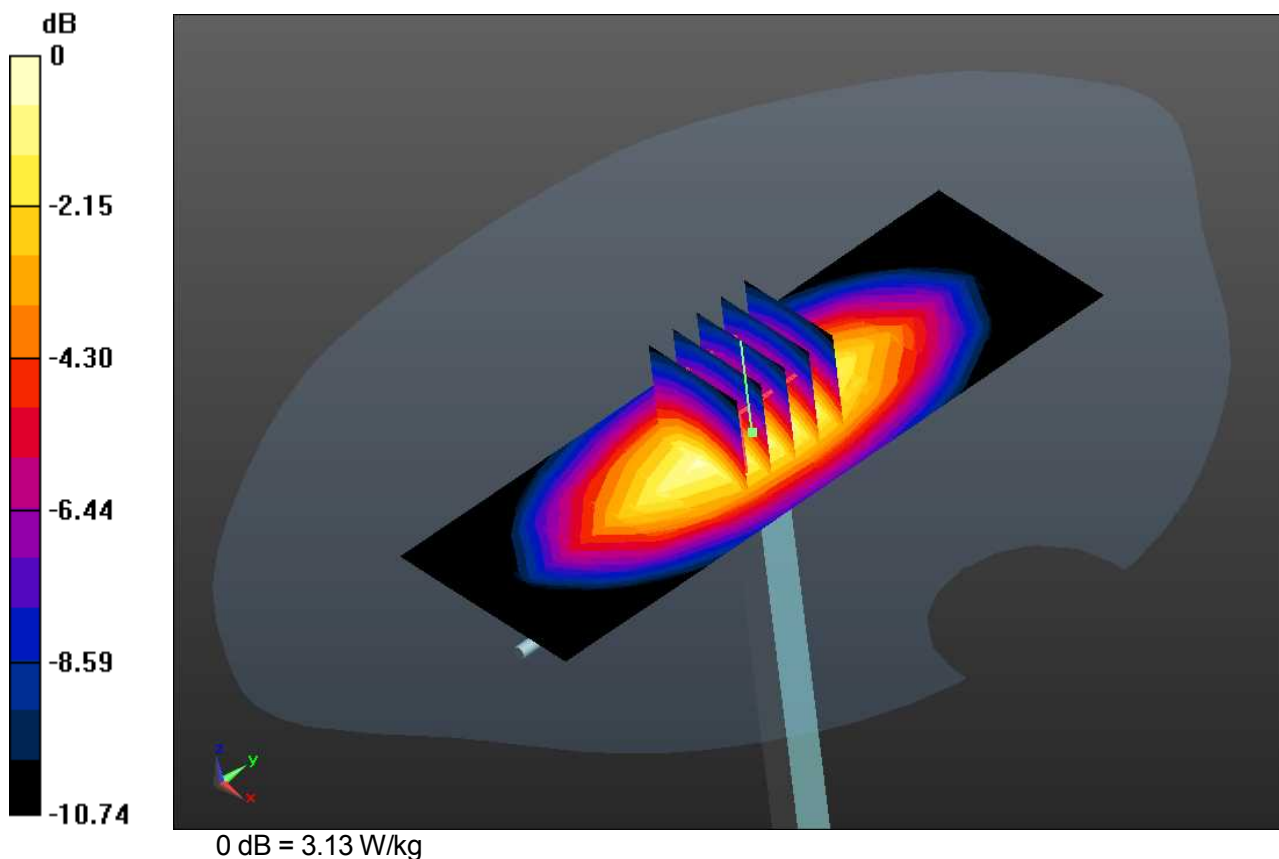
Test date: 2014-12-2; Ambient Temp: 22.8; Tissue Temp: 21.6

### 835 MHz System Verification -Head-

**Area Scan (5x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 3.11 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 60.59 V/m; Power Drift = 0.07 dB  
 Peak SAR (extrapolated) = 3.70 W/kg

**SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.61 W/kg**  
 Maximum value of SAR (measured) = 3.13 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d104

Communication System: CW; Frequency: 835MHz  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.922$  S/m;  $\epsilon_r = 41.704$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(8.92, 8.92, 8.92); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 Measurement SW: DASY52, Version 52.8 (8)

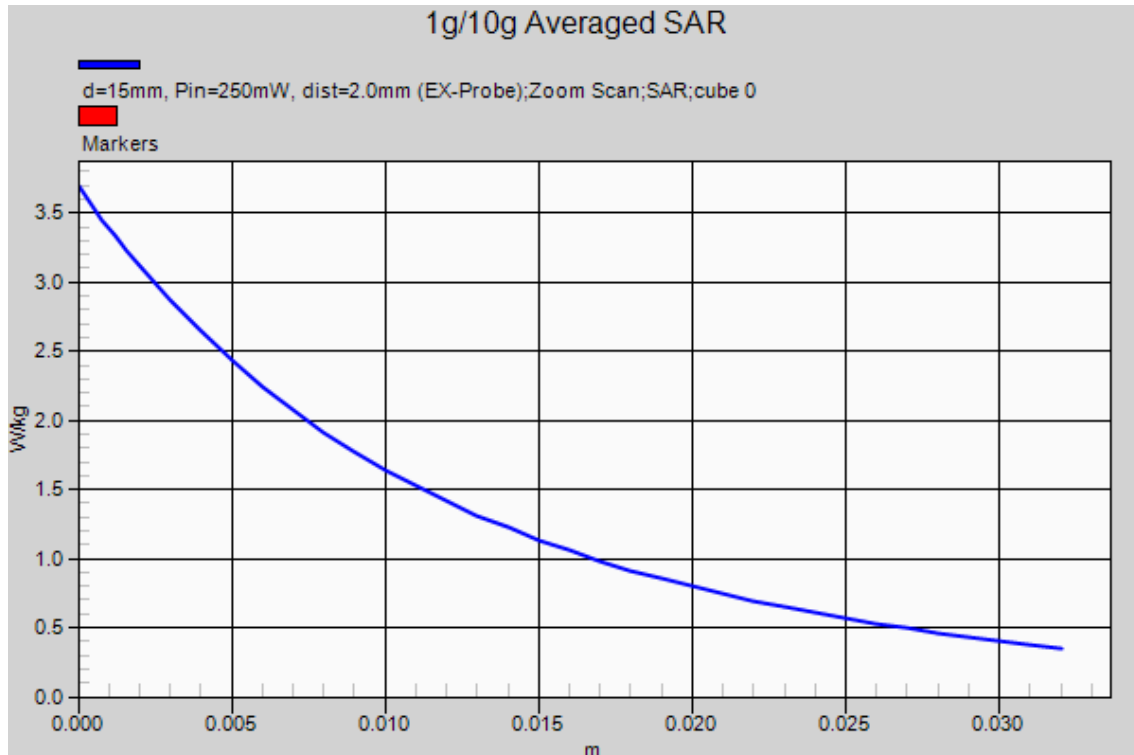
Test date: 2014-12-2; Ambient Temp: 22.8; Tissue Temp: 21.6

### 835 MHz System Verification -Head-

**Area Scan (5x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 3.11 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 60.59 V/m; Power Drift = 0.07 dB  
 Peak SAR (extrapolated) = 3.70 W/kg

**SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.61 W/kg**  
 Maximum value of SAR (measured) = 3.13 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d104

Communication System: CW; Frequency: 835MHz  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 1.001$  S/m;  $\epsilon_r = 53.452$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(8.67, 8.67, 8.67); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: ELI v5.0 (20deg probe tilt) TP:1230; Type: QDOVA001BB; Serial: TP:1230  
 Measurement SW: DASY52, Version 52.8 (8)

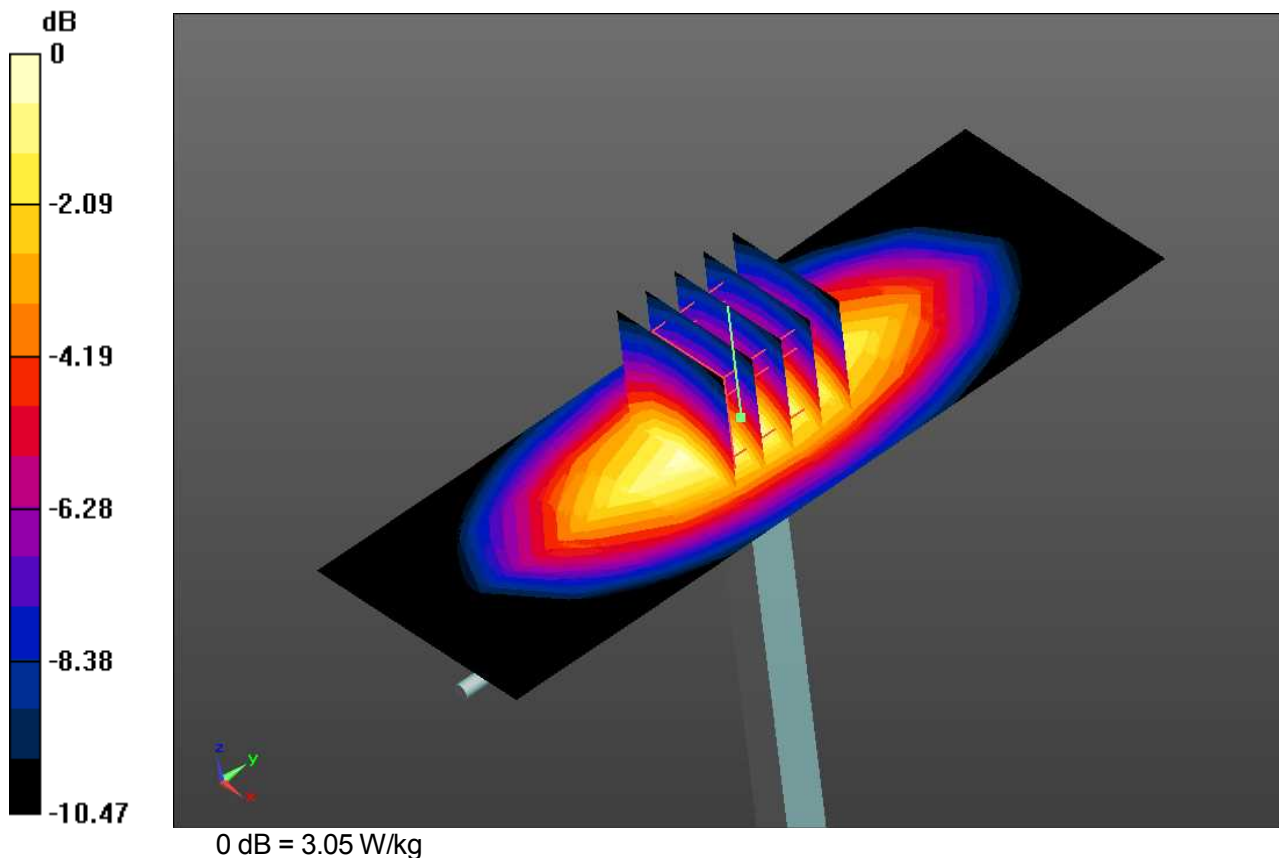
Test date: 2014-12-3; Ambient Temp: 22.7; Tissue Temp: 21.3

### 835 MHz System Verification -Body-

**Area Scan (5x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 3.32 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 58.85 V/m; Power Drift = -0.18 dB  
 Peak SAR (extrapolated) = 3.59 W/kg

**SAR(1 g) = 2.40 W/kg; SAR(10 g) = 1.58 W/kg**  
 Maximum value of SAR (measured) = 3.05 W/kg



### DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d104

Communication System: CW; Frequency: 835MHz  
 Medium parameters used:  $f = 835$  MHz;  $\sigma = 1.001$  S/m;  $\epsilon_r = 53.452$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(8.67, 8.67, 8.67); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: ELI v5.0 (20deg probe tilt) TP:1230; Type: QDOVA001BB; Serial: TP:1230  
 Measurement SW: DASY52, Version 52.8 (8)

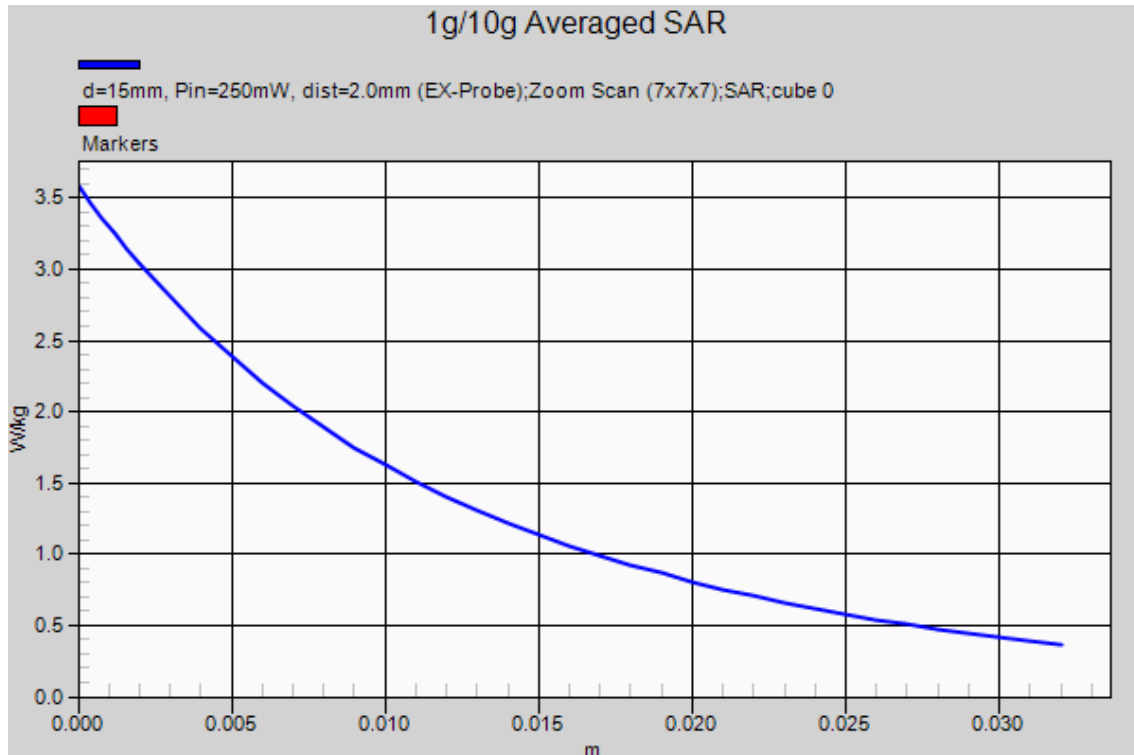
Test date: 2014-12-3; Ambient Temp: 22.7; Tissue Temp: 21.3

### 835 MHz System Verification -Body-

**Area Scan (5x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 3.32 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 58.85 V/m; Power Drift = -0.18 dB  
 Peak SAR (extrapolated) = 3.59 W/kg

**SAR(1 g) = 2.40 W/kg; SAR(10 g) = 1.58 W/kg**  
 Maximum value of SAR (measured) = 3.05 W/kg



### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d129

Communication System: CW; Frequency: 1900MHz  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.449$  S/m;  $\epsilon_r = 39.639$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(7.12, 7.12, 7.12); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

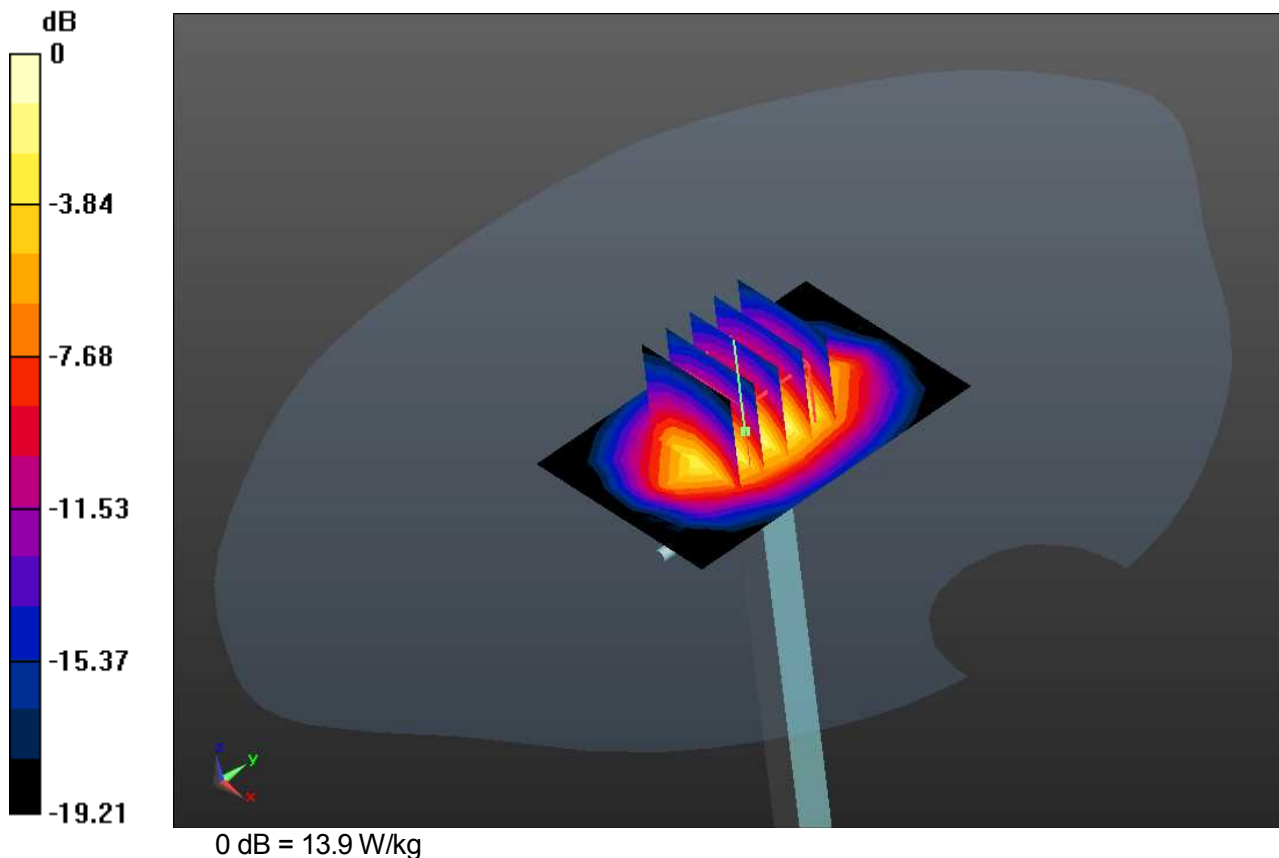
Test date: 2014-12-4; Ambient Temp: 20.7; Tissue Temp: 20.4

### 1900 MHz System Verification -Head-

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 14.2 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 100.7 V/m; Power Drift = -0.05 dB  
 Peak SAR (extrapolated) = 18.3 W/kg

**SAR(1 g) = 9.66 W/kg; SAR(10 g) = 4.95 W/kg**  
 Maximum value of SAR (measured) = 13.9 W/kg



### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d129

Communication System: CW; Frequency: 1900MHz  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.449$  S/m;  $\epsilon_r = 39.639$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(7.12, 7.12, 7.12); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

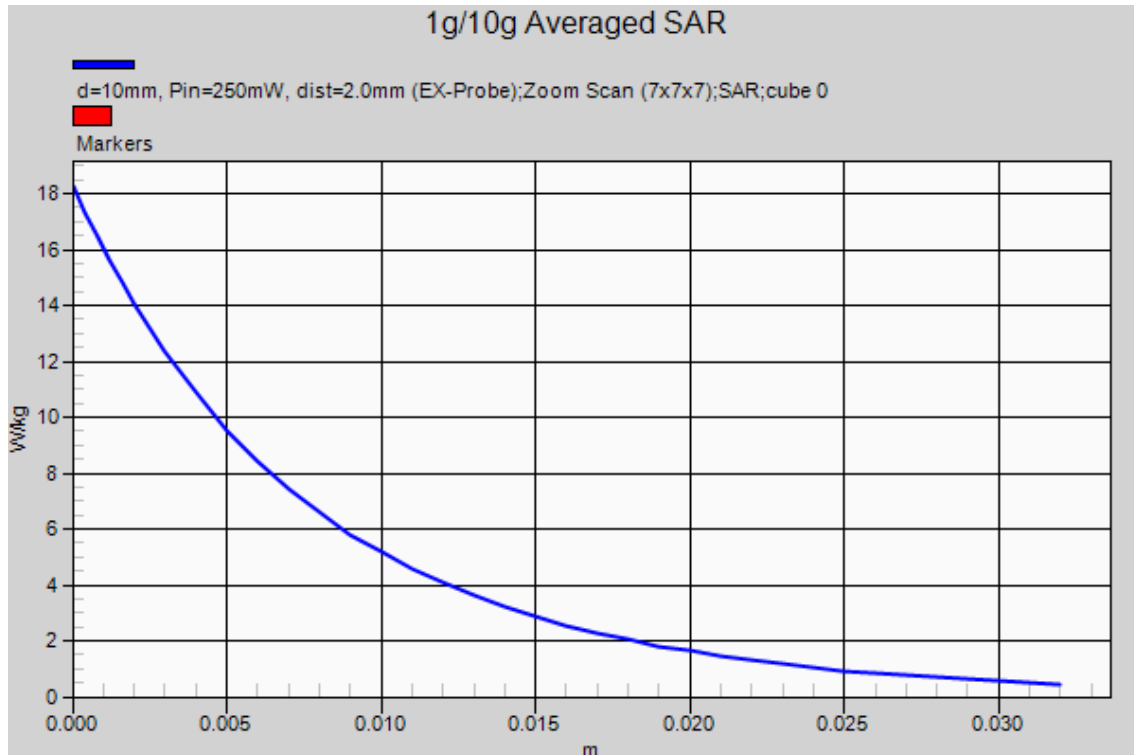
Test date: 2014-12-4; Ambient Temp: 20.7; Tissue Temp: 20.4

### 1900 MHz System Verification -Head-

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 14.2 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 100.7 V/m; Power Drift = -0.05 dB  
 Peak SAR (extrapolated) = 18.3 W/kg

**SAR(1 g) = 9.66 W/kg; SAR(10 g) = 4.95 W/kg**  
 Maximum value of SAR (measured) = 13.9 W/kg



### DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d129

Communication System: CW; Frequency: 1900MHz  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.584$  S/m;  $\epsilon_r = 51.004$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(7.21, 7.21, 7.21); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

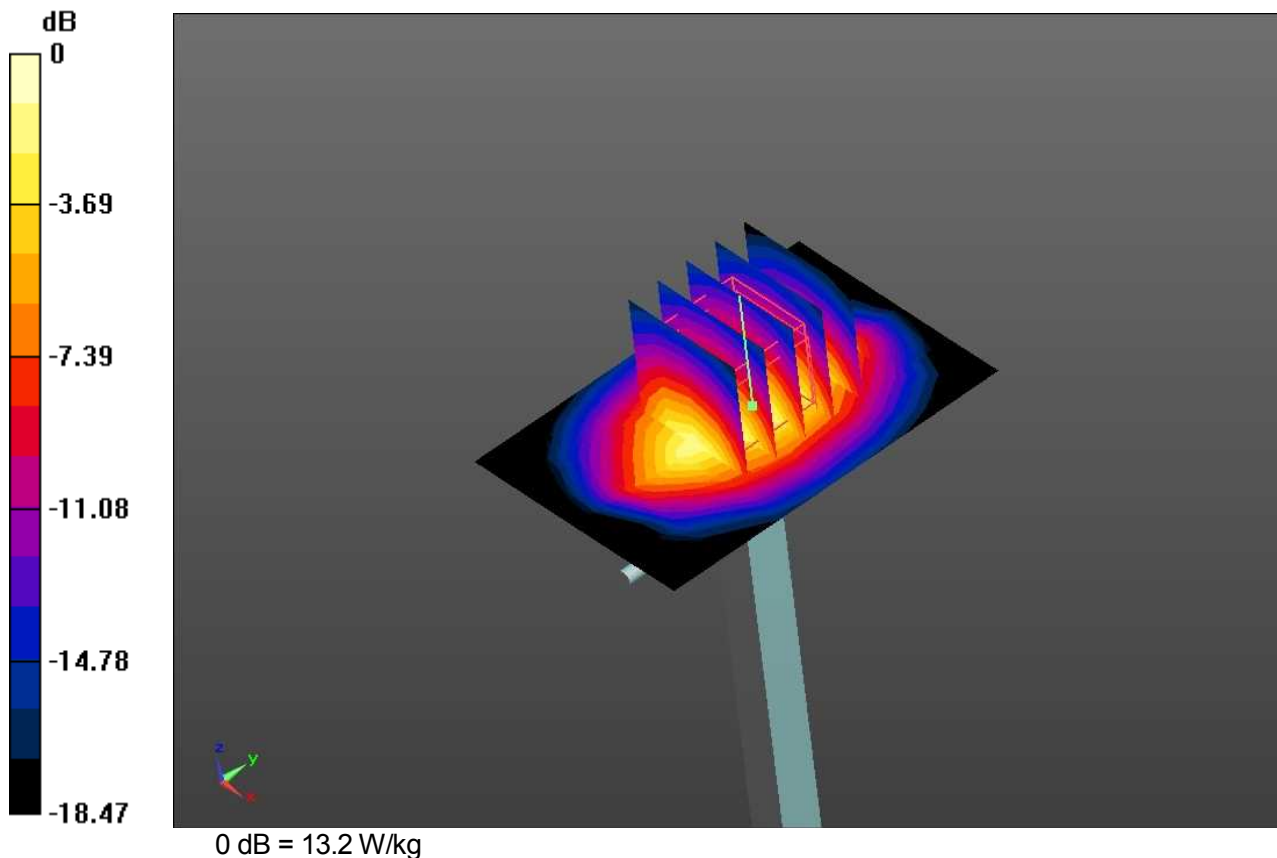
Test date: 2014-12-5; Ambient Temp: 20.5; Tissue Temp: 20.2

### 1900 MHz System Verification -Body-

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 13.3 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 93.18 V/m; Power Drift = 0.06 dB  
 Peak SAR (extrapolated) = 17.0 W/kg

**SAR(1 g) = 9.28 W/kg; SAR(10 g) = 4.80 W/kg**  
 Maximum value of SAR (measured) = 13.2 W/kg



**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d129**

Communication System: CW; Frequency: 1900MHz  
 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.584$  S/m;  $\epsilon_r = 51.004$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(7.21, 7.21, 7.21); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

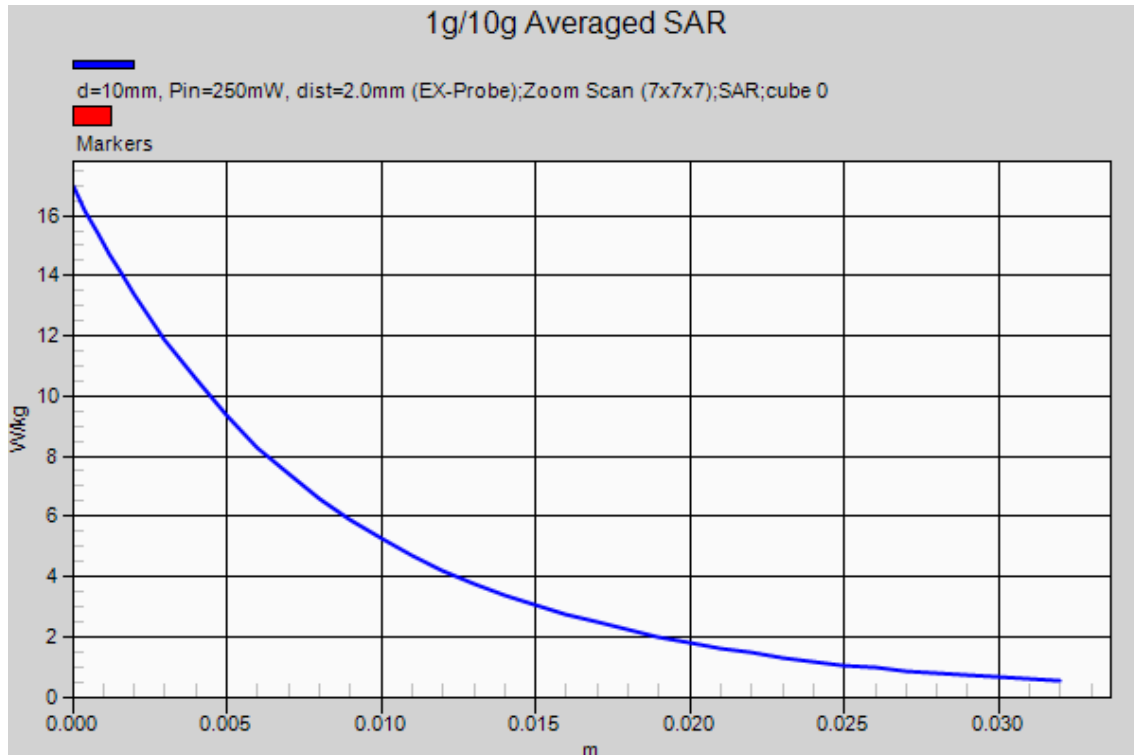
Test date: 2014-12-5; Ambient Temp: 20.5; Tissue Temp: 20.2

**1900 MHz System Verification -Body-**

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 13.3 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
 Reference Value = 93.18 V/m; Power Drift = 0.06 dB  
 Peak SAR (extrapolated) = 17.0 W/kg

**SAR(1 g) = 9.28 W/kg; SAR(10 g) = 4.80 W/kg**  
 Maximum value of SAR (measured) = 13.2 W/kg





### DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 894

Communication System: CW; Frequency: 2450MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.797$  S/m;  $\epsilon_r = 37.768$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(6.7, 6.7, 6.7); Calibrated: 4/15/2014;

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

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-2; Ambient Temp: 20.9; Tissue Temp: 21.4

### 2450 MHz System Verification -Head-

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

Maximum value of SAR (measured) = 21.2 W/kg

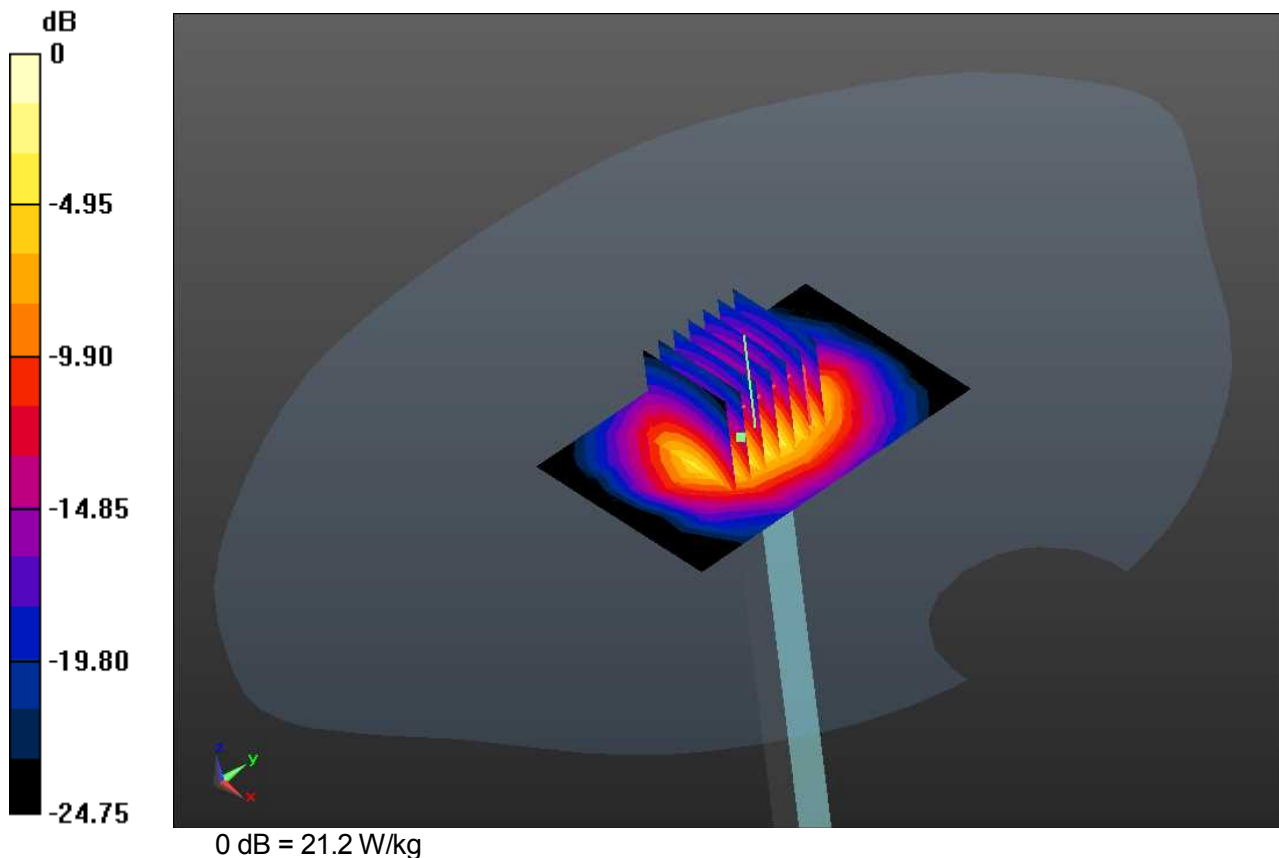
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 109.4 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 29.7 W/kg

**SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.18 W/kg**

Maximum value of SAR (measured) = 21.2 W/kg



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 894**

Communication System: CW; Frequency: 2450MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.797$  S/m;  $\epsilon_r = 37.768$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(6.7, 6.7, 6.7); Calibrated: 4/15/2014;

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

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-2; Ambient Temp: 20.9; Tissue Temp: 21.4

**2450 MHz System Verification -Head-****Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 21.2 W/kg

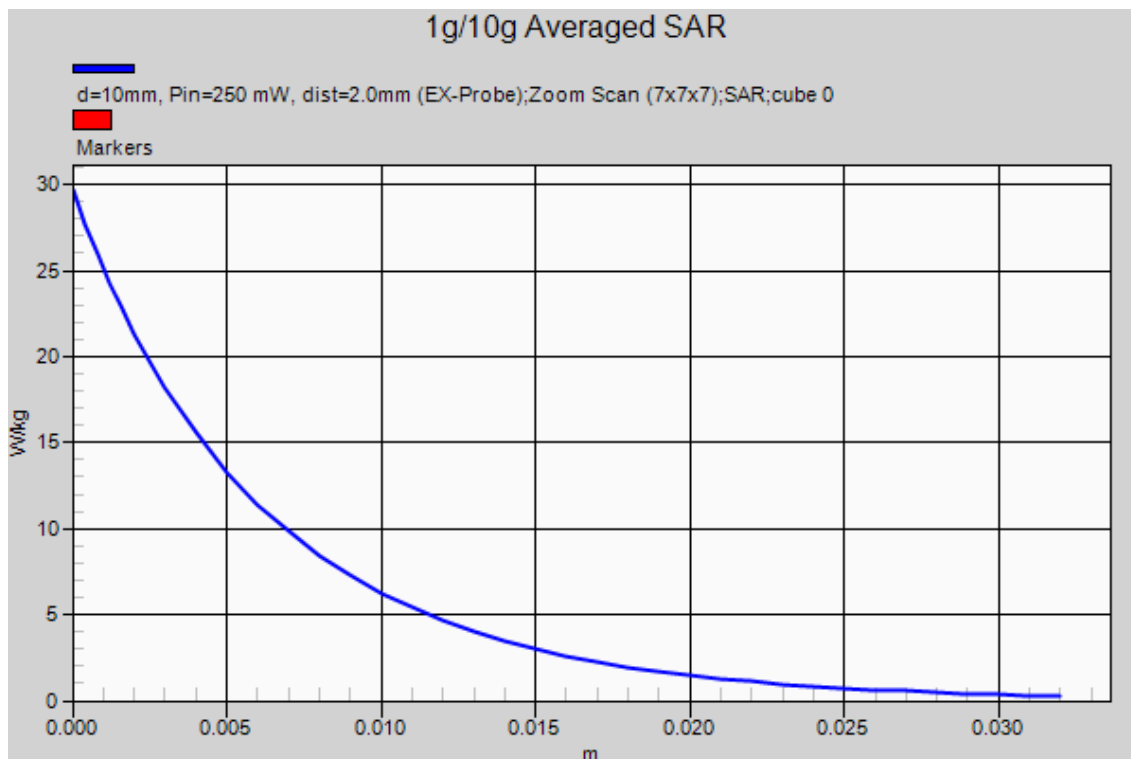
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 109.4 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 29.7 W/kg

**SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.18 W/kg**

Maximum value of SAR (measured) = 21.2 W/kg



### DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 894

Communication System: CW; Frequency: 2450MHz  
 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.994$  S/m;  $\epsilon_r = 51.058$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

### DASY Configuration

Probe: EX3DV4 - SN3745; ConvF(6.66, 6.66, 6.66); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

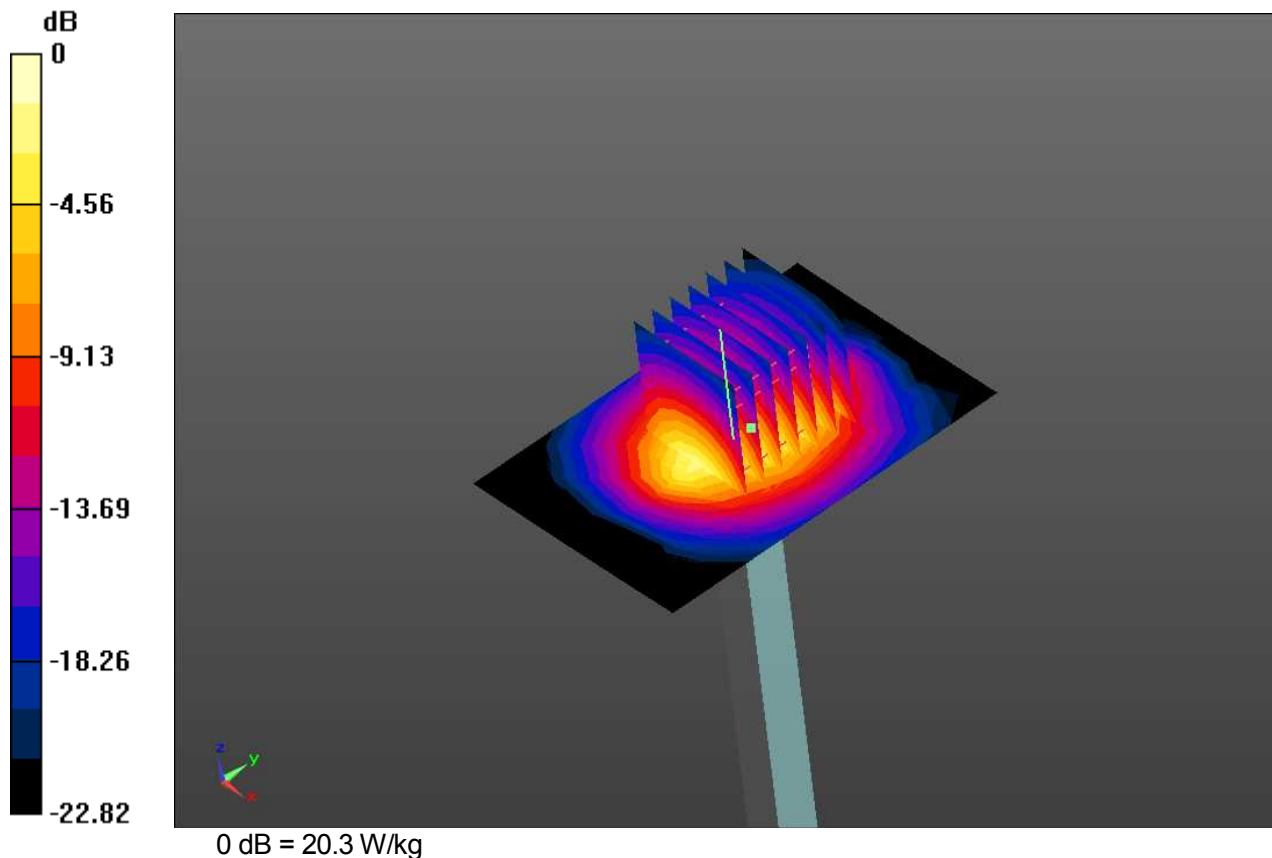
Test date: 2014-12-2; Ambient Temp: 21.6; Tissue Temp: 22.2

### 2450 MHz System Verification -Body-

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 20.9 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 103.4 V/m; Power Drift = 0.01 dB  
 Peak SAR (extrapolated) = 28.3 W/kg

**SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.17 W/kg**  
 Maximum value of SAR (measured) = 20.3 W/kg



**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 894**

Communication System: CW; Frequency: 2450MHz  
 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.994$  S/m;  $\epsilon_r = 51.058$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(6.66, 6.66, 6.66); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: ELI v5.0 (20deg probe tilt) TP;1230; Type: QDOVA001BB; Serial: TP:1230  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

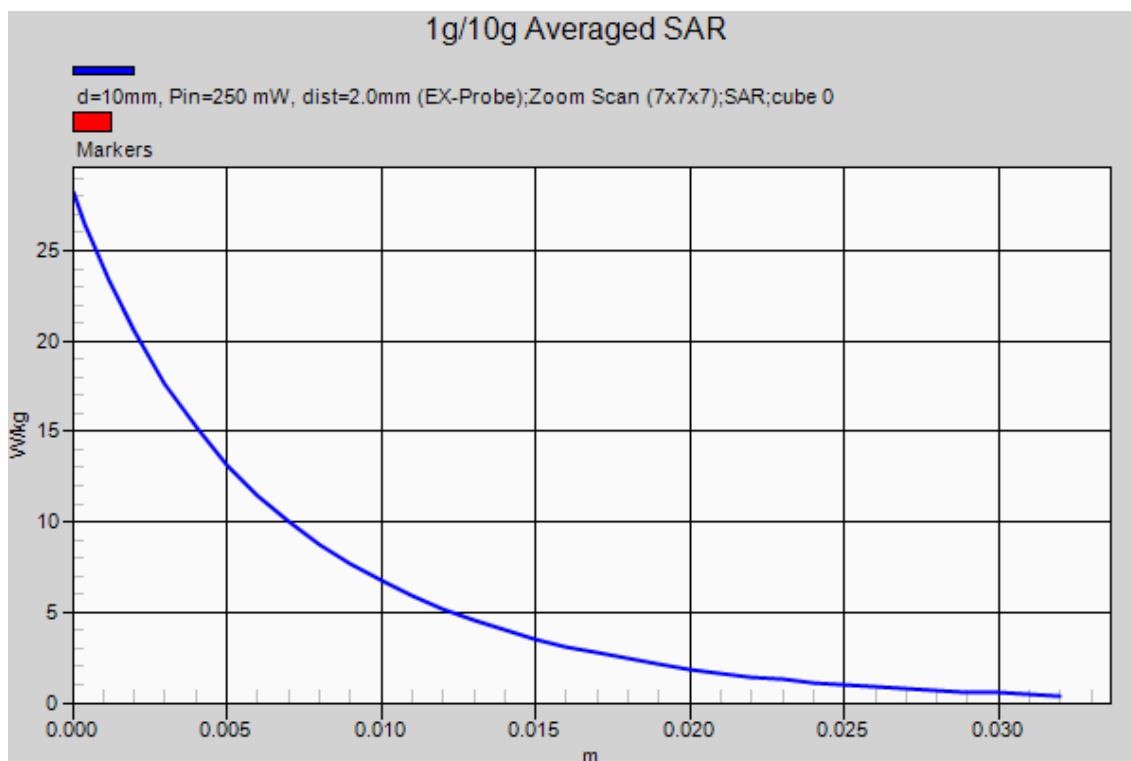
Test date: 2014-12-2; Ambient Temp: 21.6; Tissue Temp: 22.2

**2450 MHz System Verification -Body-**

**Area Scan (5x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 20.9 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
 Reference Value = 103.4 V/m; Power Drift = 0.01 dB  
 Peak SAR (extrapolated) = 28.3 W/kg

**SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.17 W/kg**  
 Maximum value of SAR (measured) = 20.3 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.64$  S/m;  $\epsilon_r = 36.192$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.68, 4.68, 4.68); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-11-28; Ambient Temp: 22.5; Tissue Temp: 21.4

**5200 MHz System Verification -Head-**

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

Maximum value of SAR (measured) = 14.8 W/kg

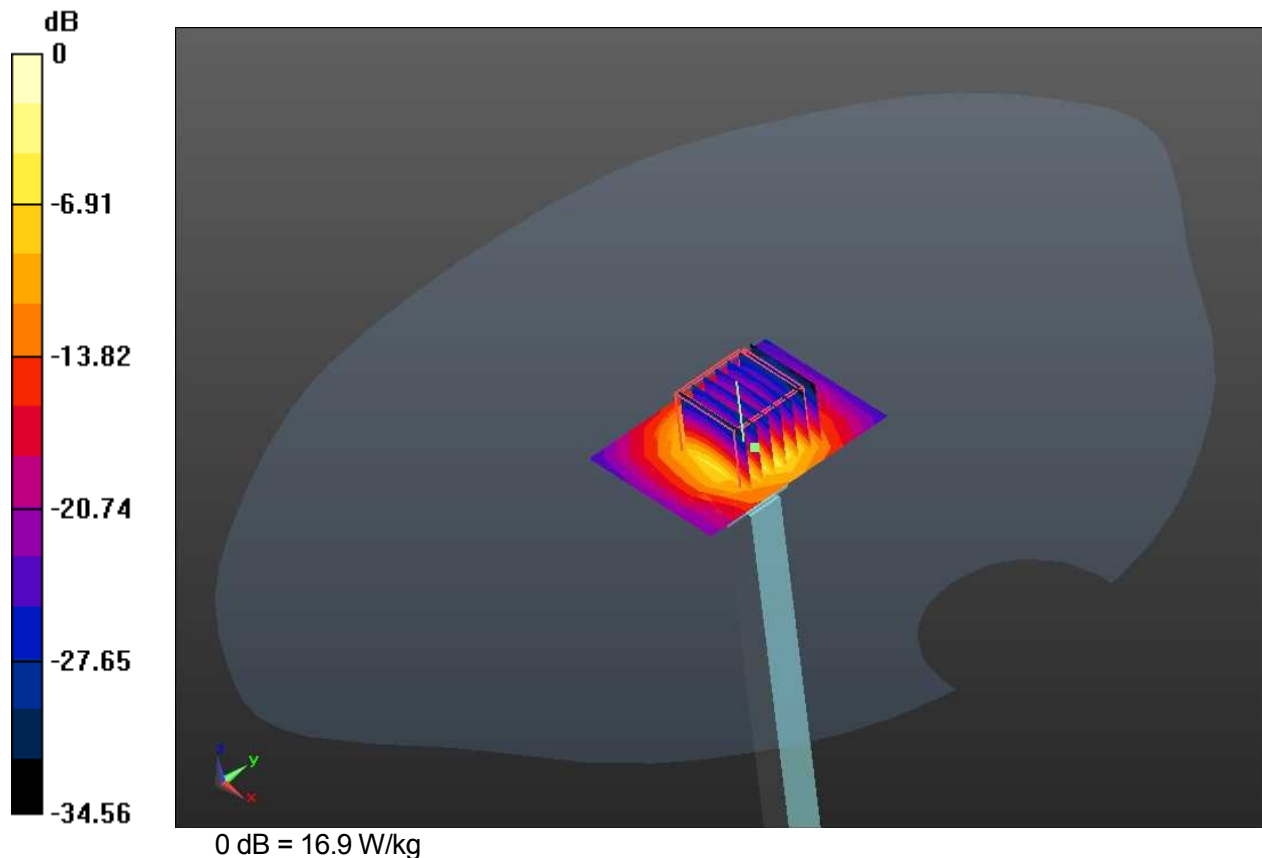
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 66.72 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 35.3 W/kg

**SAR(1 g) = 8.61 W/kg; SAR(10 g) = 2.49 W/kg**

Maximum value of SAR (measured) = 16.9 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.64$  S/m;  $\epsilon_r = 36.192$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.68, 4.68, 4.68); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$ 

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-11-28; Ambient Temp: 22.5; Tissue Temp: 21.4

**5200 MHz System Verification -Head-****Area Scan (4x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 14.8 W/kg

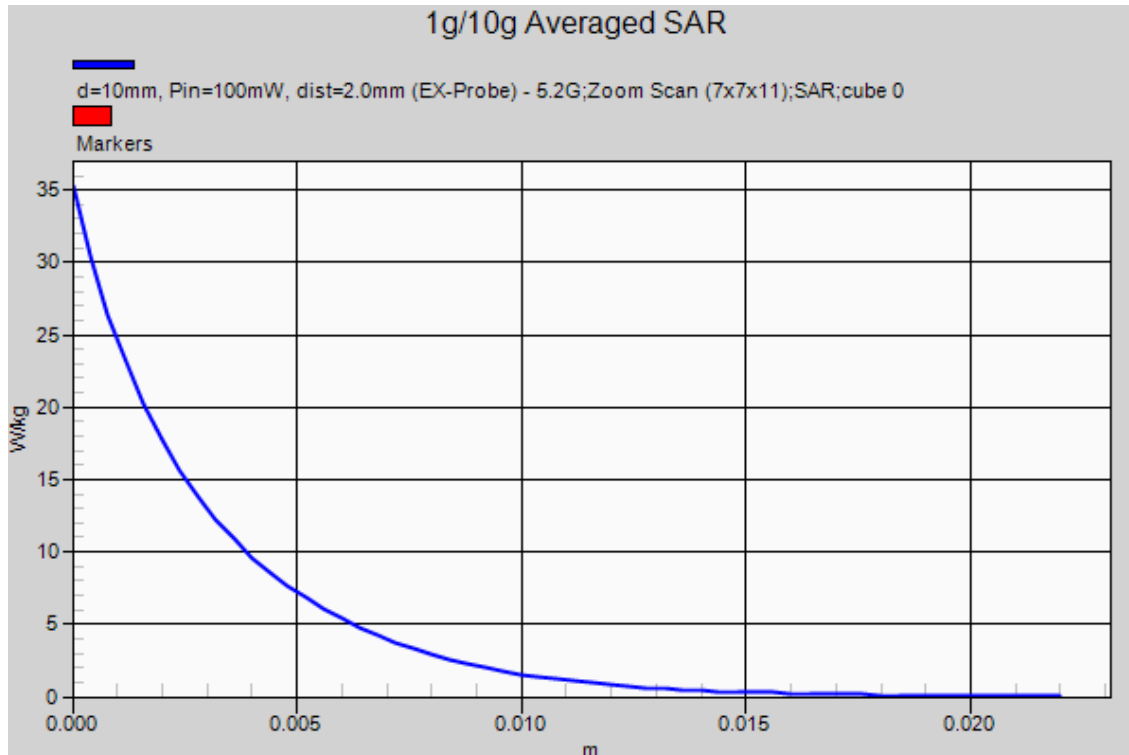
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 66.72 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 35.3 W/kg

**SAR(1 g) = 8.61 W/kg; SAR(10 g) = 2.49 W/kg**

Maximum value of SAR (measured) = 16.9 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.951$  S/m;  $\epsilon_r = 35.706$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.34, 4.34, 4.34); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-11-28; Ambient Temp: 22.5; Tissue Temp: 21.4

**5500 MHz System Verification -Head-**

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

Maximum value of SAR (measured) = 14.2 W/kg

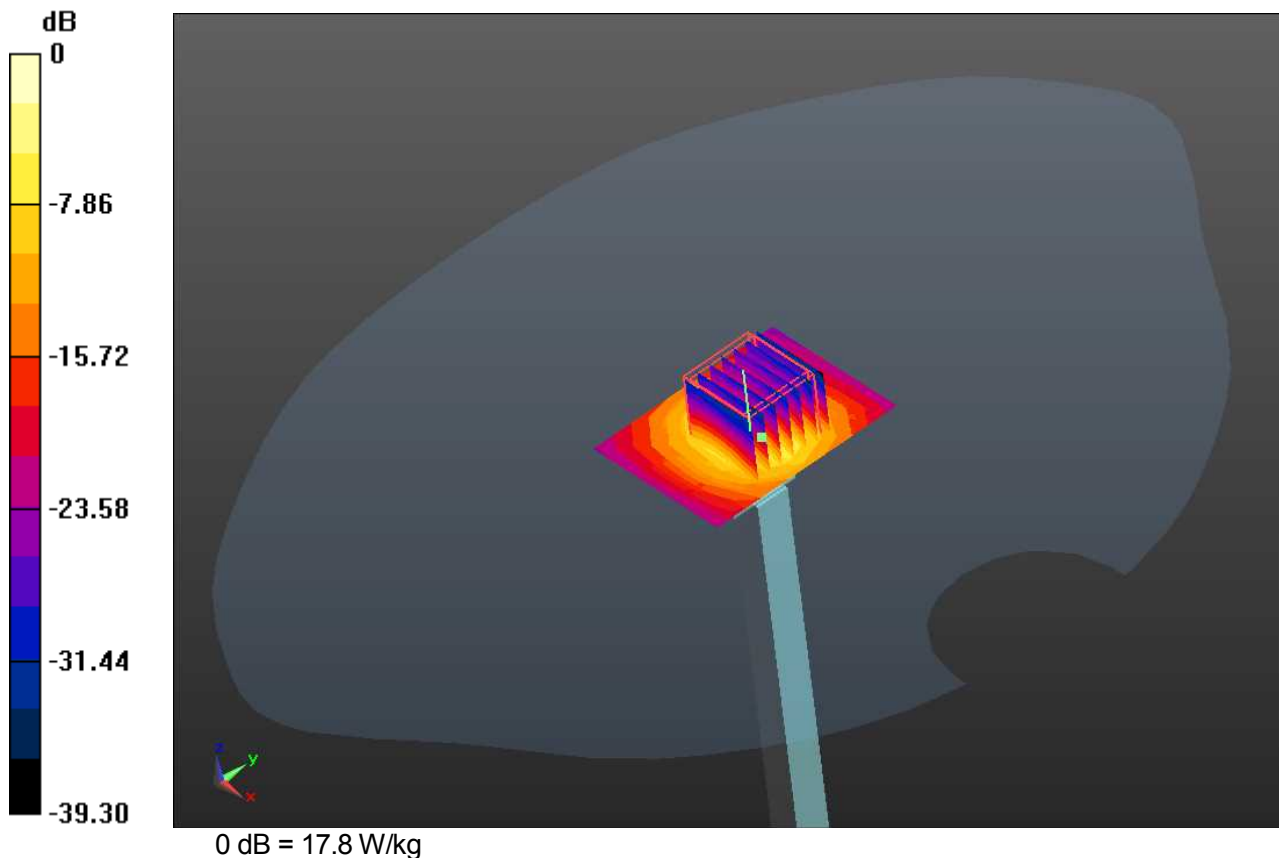
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 66.37 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 37.2 W/kg

**SAR(1 g) = 8.61 W/kg; SAR(10 g) = 2.44 W/kg**

Maximum value of SAR (measured) = 17.8 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.951$  S/m;  $\epsilon_r = 35.706$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.34, 4.34, 4.34); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$ 

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-11-28; Ambient Temp: 22.5; Tissue Temp: 21.4

**5500 MHz System Verification -Head-****Area Scan (4x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 14.2 W/kg

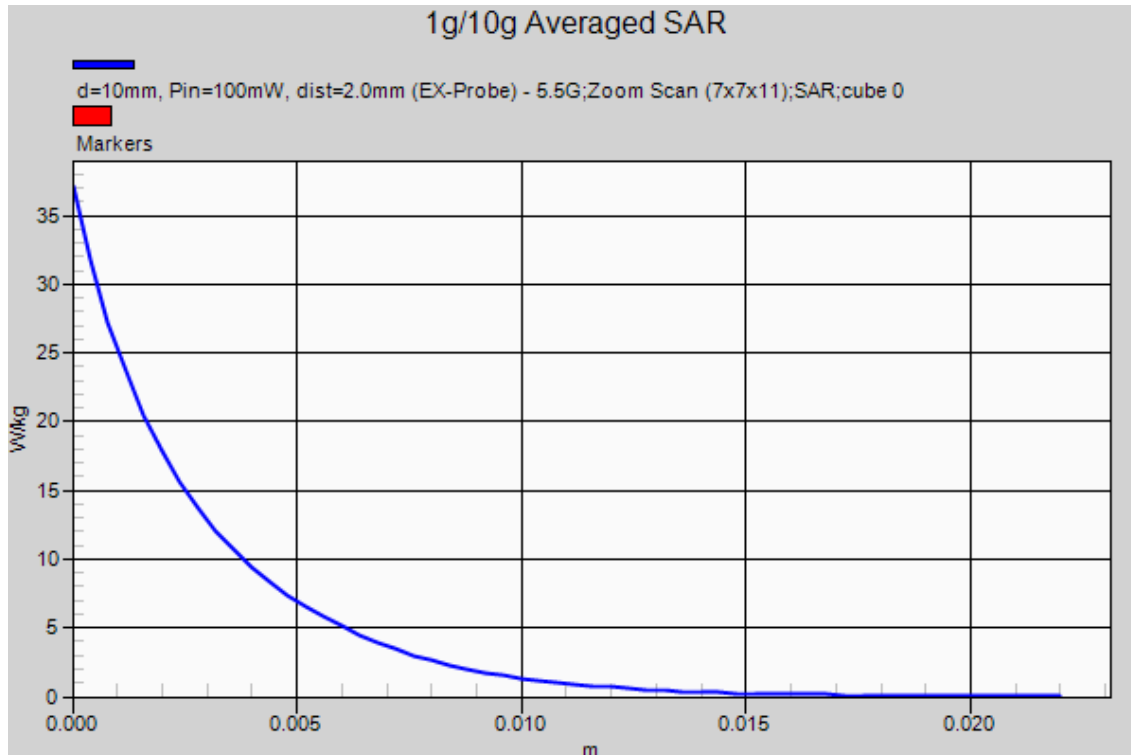
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 66.37 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 37.2 W/kg

**SAR(1 g) = 8.61 W/kg; SAR(10 g) = 2.44 W/kg**

Maximum value of SAR (measured) = 17.8 W/kg





**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.257$  S/m;  $\epsilon_r = 35.249$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.23, 4.23, 4.23); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-11-28; Ambient Temp: 22.5; Tissue Temp: 21.4

**5800 MHz System Verification -Head-**

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

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

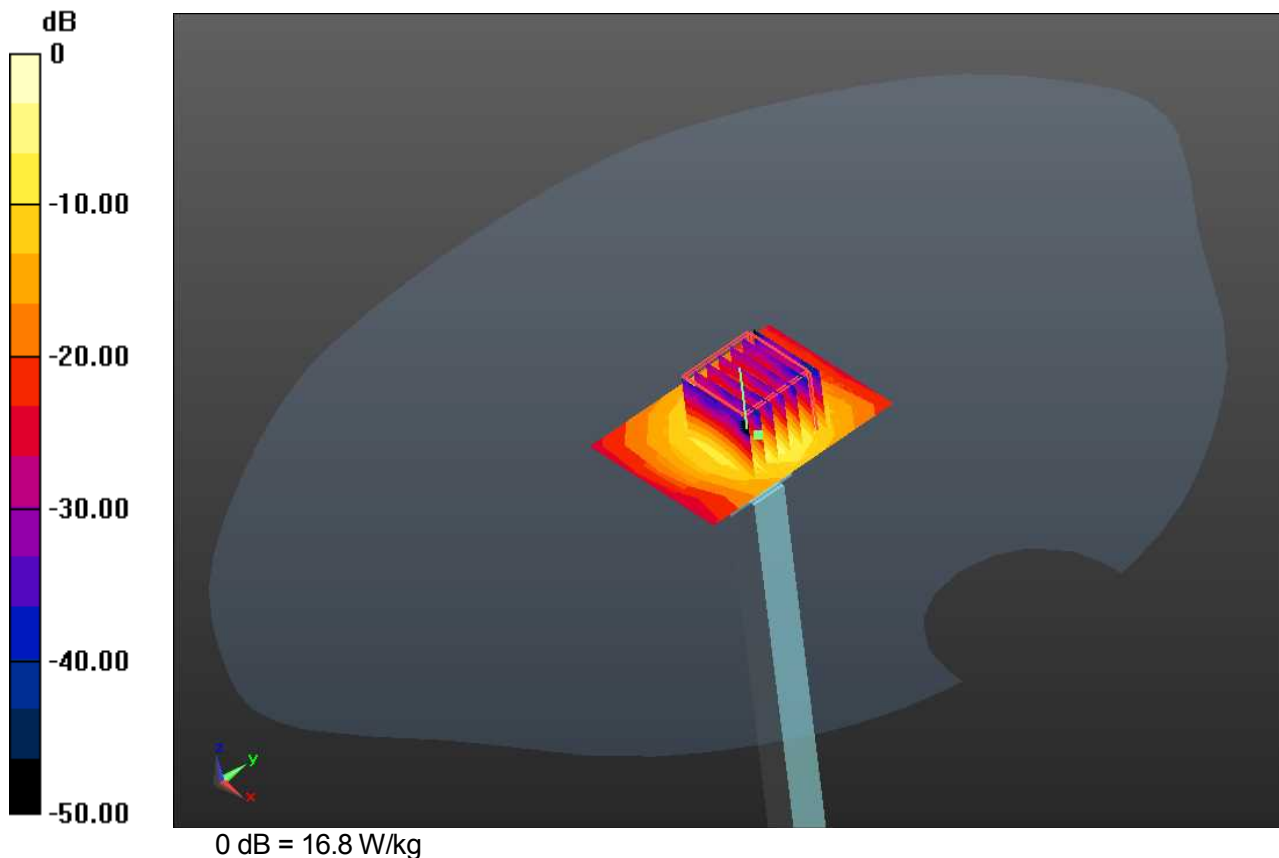
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 62.06 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 37.3 W/kg

**SAR(1 g) = 8.21 W/kg; SAR(10 g) = 2.32 W/kg**

Maximum value of SAR (measured) = 16.8 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.257$  S/m;  $\epsilon_r = 35.249$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.23, 4.23, 4.23); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-11-28; Ambient Temp: 22.5; Tissue Temp: 21.4

**5800 MHz System Verification -Head-**

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

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

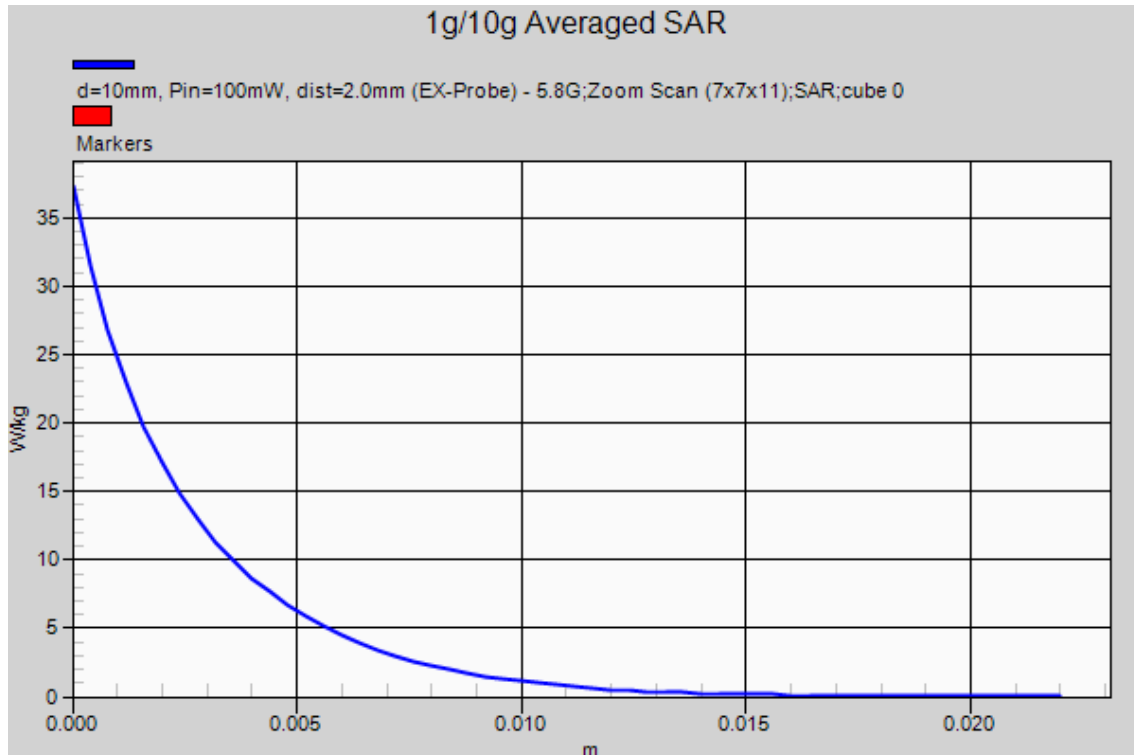
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 62.06 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 37.3 W/kg

**SAR(1 g) = 8.21 W/kg; SAR(10 g) = 2.32 W/kg**

Maximum value of SAR (measured) = 16.8 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5200MHz  
 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.43$  S/m;  $\epsilon_r = 37.11$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.68, 4.68, 4.68); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

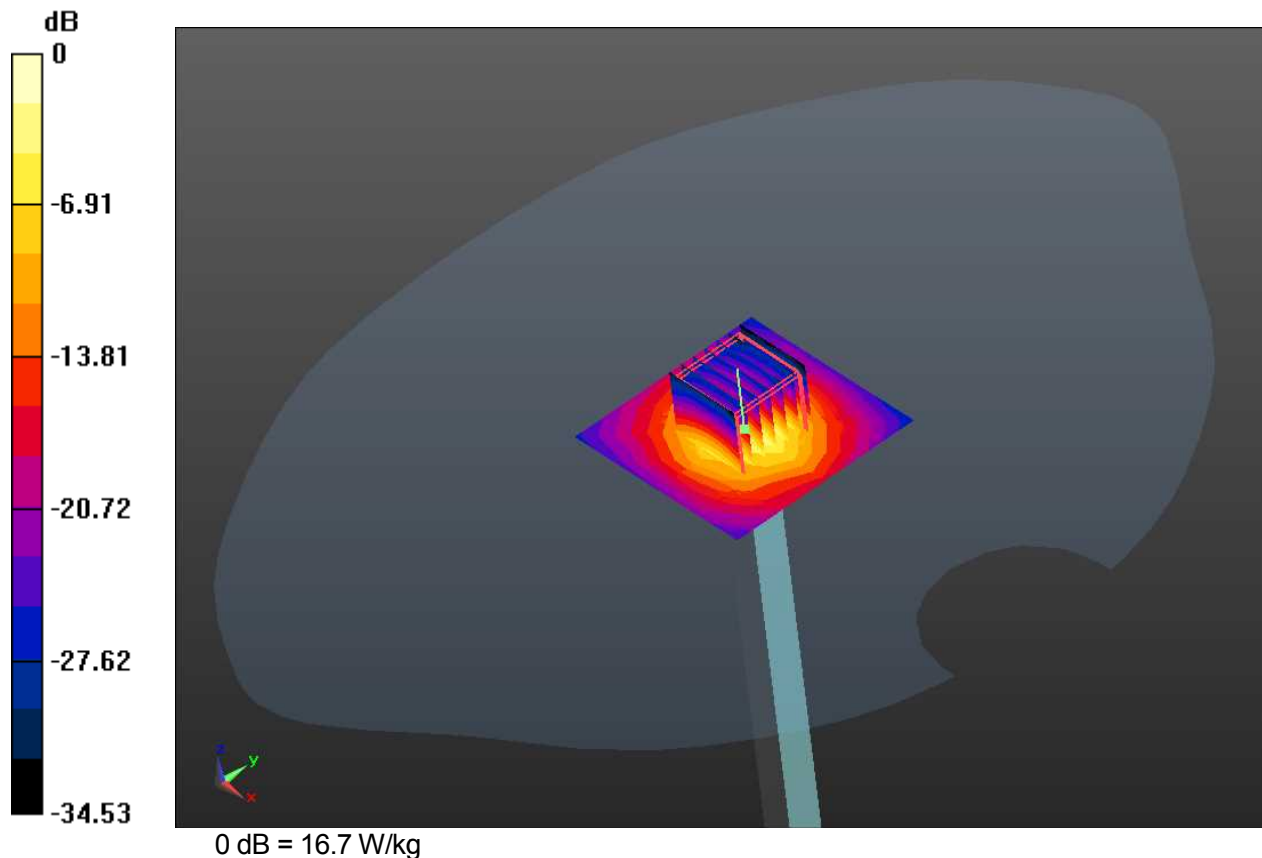
Test date: 2014-12-1; Ambient Temp: 20.2; Tissue Temp: 20.0

**5200 MHz System Verification -Head-**

**Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 16.7 W/kg

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
 Reference Value = 65.27 V/m; Power Drift = -0.05 dB  
 Peak SAR (extrapolated) = 35.8 W/kg

**SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.48 W/kg**  
 Maximum value of SAR (measured) = 16.7 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5200MHz  
 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.43$  S/m;  $\epsilon_r = 37.11$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.68, 4.68, 4.68); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: SAM v5.0 TP:1799; Type: QD000P40CD; Serial: TP:1799  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

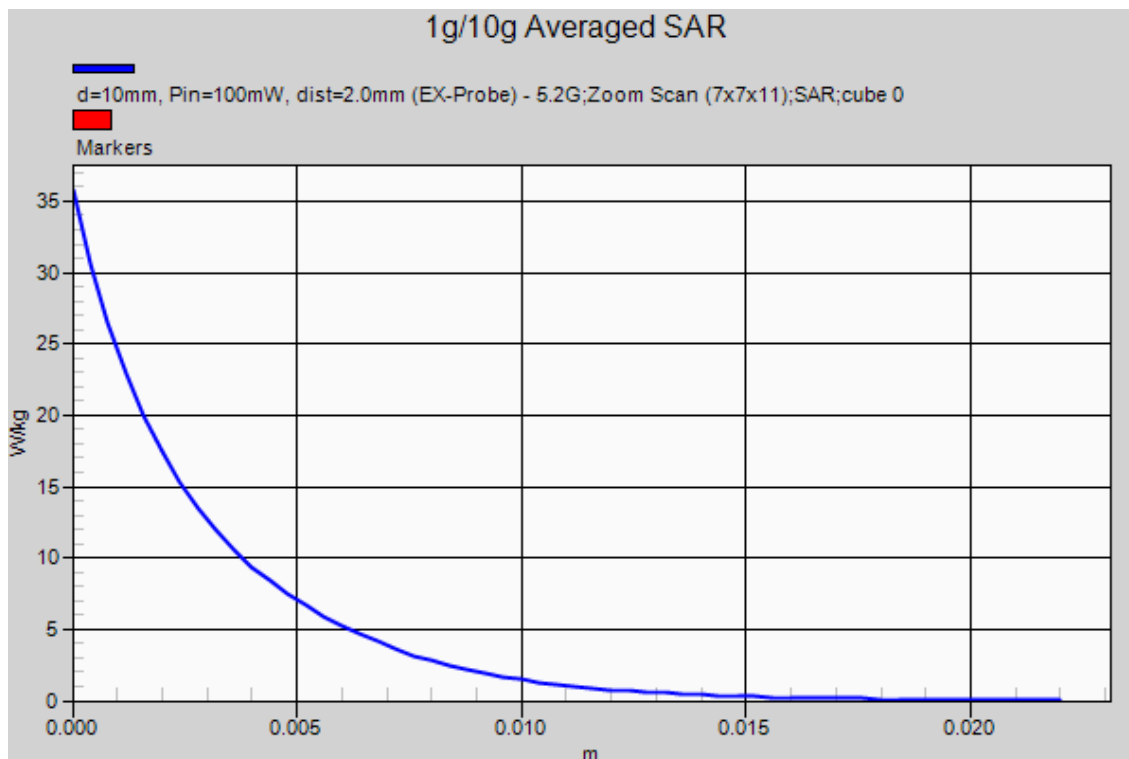
Test date: 2014-12-1; Ambient Temp: 20.2; Tissue Temp: 20.0

**5200 MHz System Verification -Head-**

**Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 16.7 W/kg

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
 Reference Value = 65.27 V/m; Power Drift = -0.05 dB  
 Peak SAR (extrapolated) = 35.8 W/kg

**SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.48 W/kg**  
 Maximum value of SAR (measured) = 16.7 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.752$  S/m;  $\epsilon_r = 36.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.34, 4.34, 4.34); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-1; Ambient Temp: 20.2; Tissue Temp: 20.0

**5500 MHz System Verification -Head-**

**Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 17.9 W/kg

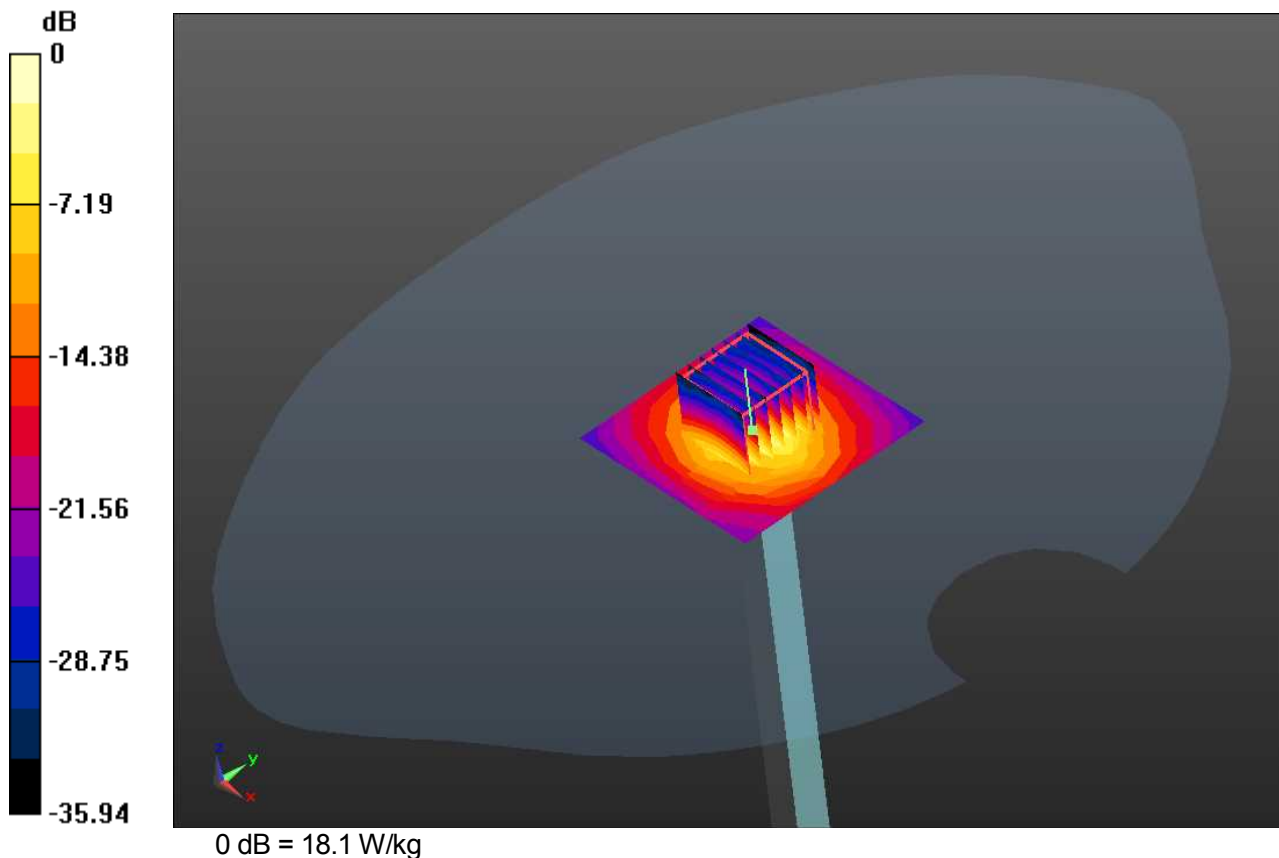
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 65.74 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 39.8 W/kg

**SAR(1 g) = 8.94 W/kg; SAR(10 g) = 2.57 W/kg**

Maximum value of SAR (measured) = 18.1 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.752$  S/m;  $\epsilon_r = 36.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.34, 4.34, 4.34); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$ 

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-1; Ambient Temp: 20.2; Tissue Temp: 20.0

**5500 MHz System Verification -Head-****Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 17.9 W/kg

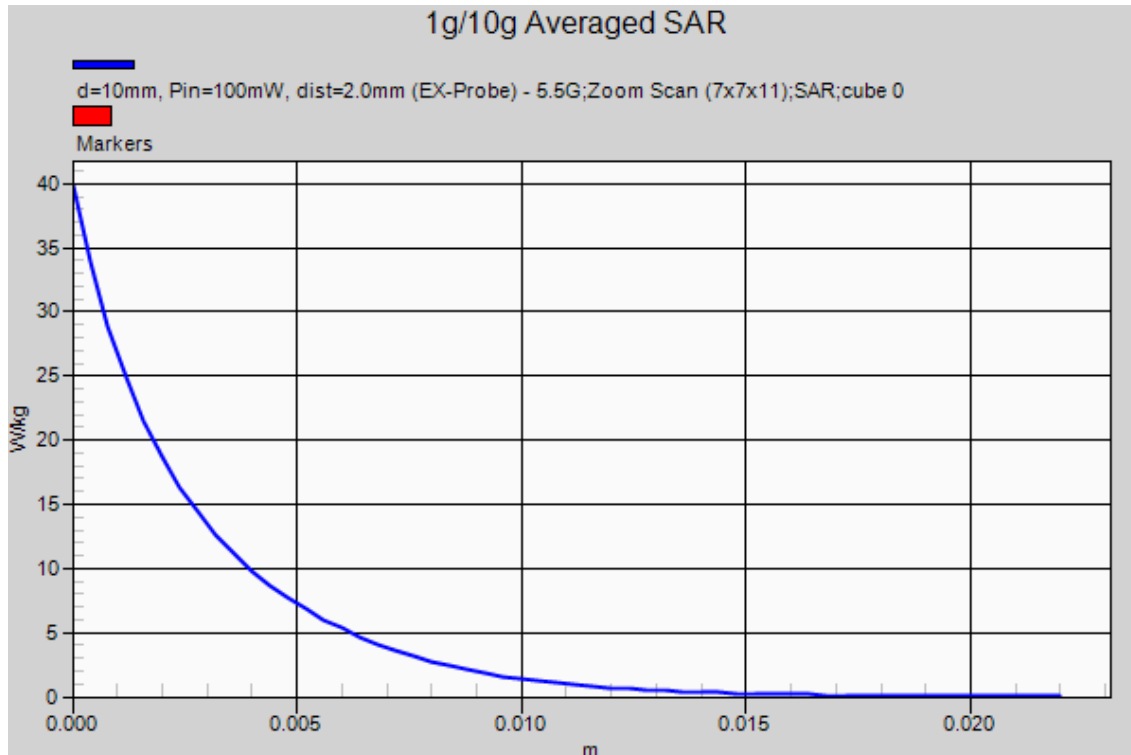
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 65.74 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 39.8 W/kg

**SAR(1 g) = 8.94 W/kg; SAR(10 g) = 2.57 W/kg**

Maximum value of SAR (measured) = 18.1 W/kg



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.073$  S/m;  $\epsilon_r = 36.254$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.23, 4.23, 4.23); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-1; Ambient Temp: 20.2; Tissue Temp: 20.0

**5800 MHz System Verification -Head-**

**Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 17.3 W/kg

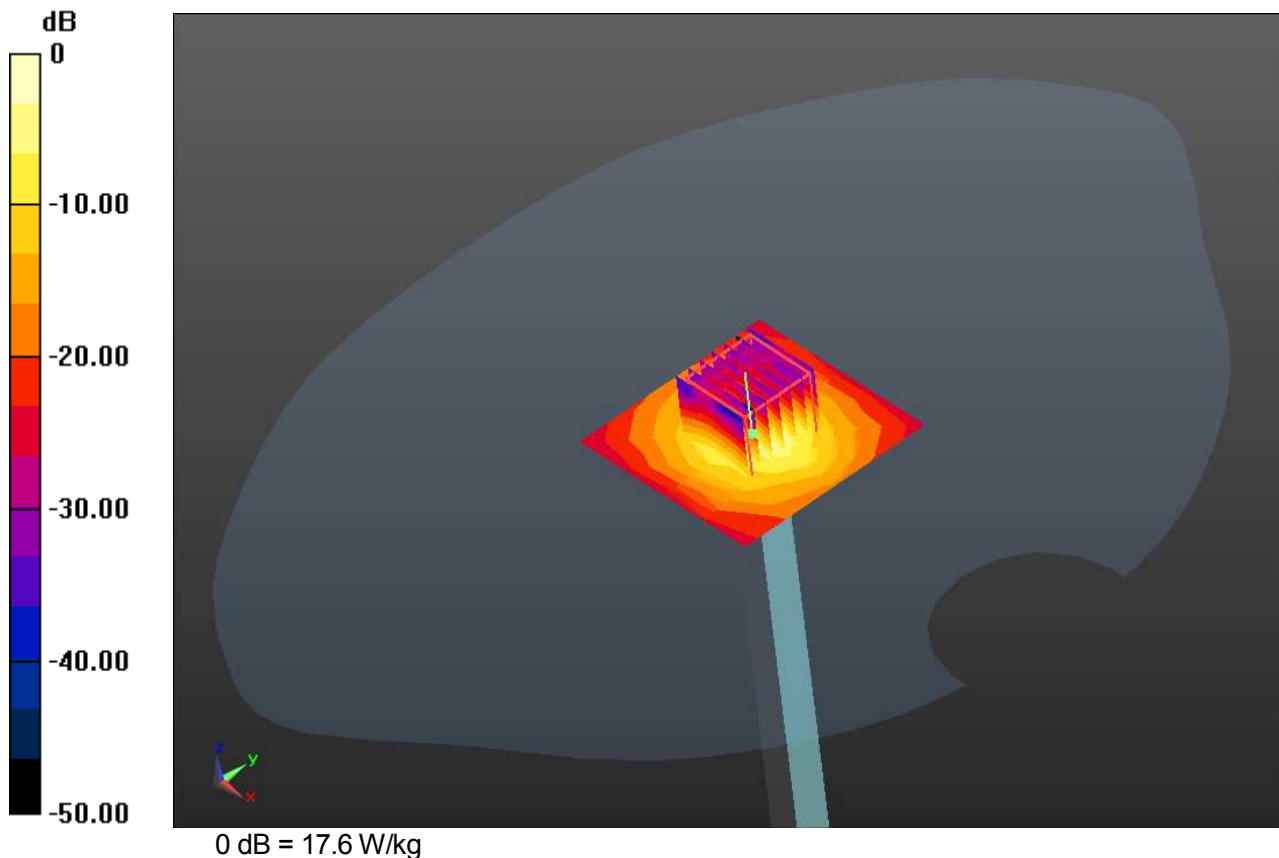
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 62.76 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 40.5 W/kg

**SAR(1 g) = 8.57 W/kg; SAR(10 g) = 2.46 W/kg**

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



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.073$  S/m;  $\epsilon_r = 36.254$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.23, 4.23, 4.23); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$ 

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-1; Ambient Temp: 20.2; Tissue Temp: 20.0

**5800 MHz System Verification -Head-****Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 17.3 W/kg

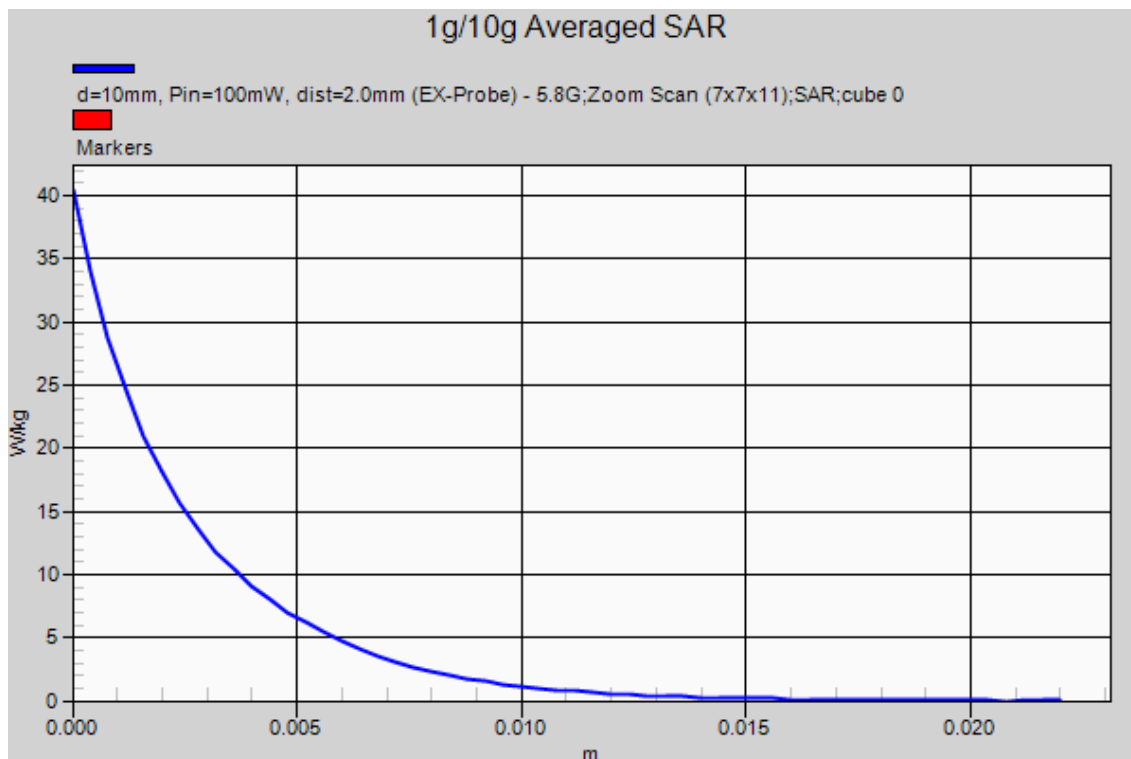
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 62.76 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 40.5 W/kg

**SAR(1 g) = 8.57 W/kg; SAR(10 g) = 2.46 W/kg**

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





**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.387$  S/m;  $\epsilon_r = 48.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.19, 4.19, 4.19); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-1; Ambient Temp: 22.4; Tissue Temp: 23.2

**5200 MHz System Verification -Body-**

**Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

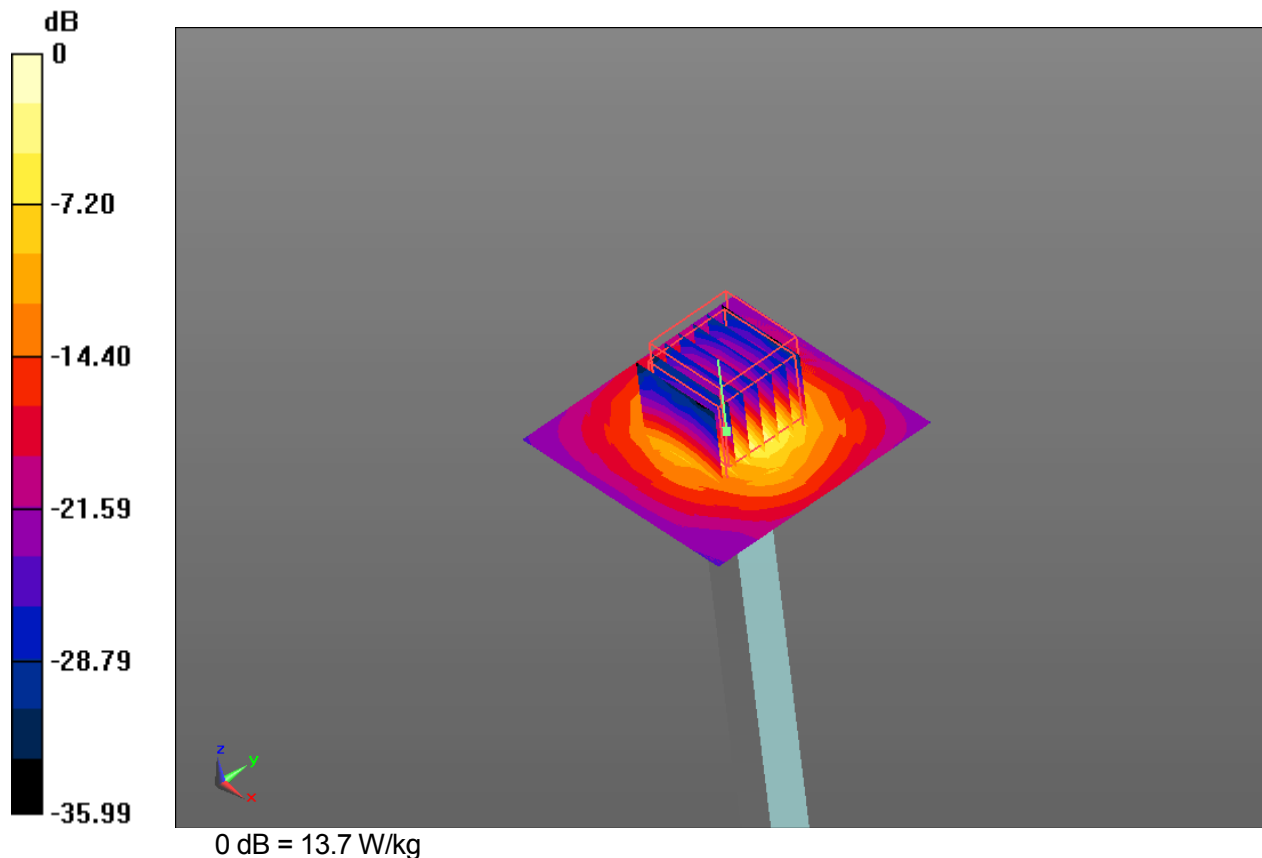
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 54.57 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 29.9 W/kg

**SAR(1 g) = 6.91 W/kg; SAR(10 g) = 1.96 W/kg**

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



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5200MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.387$  S/m;  $\epsilon_r = 48.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(4.19, 4.19, 4.19); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$ 

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-1; Ambient Temp: 22.4; Tissue Temp: 23.2

**5200 MHz System Verification -Body-****Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

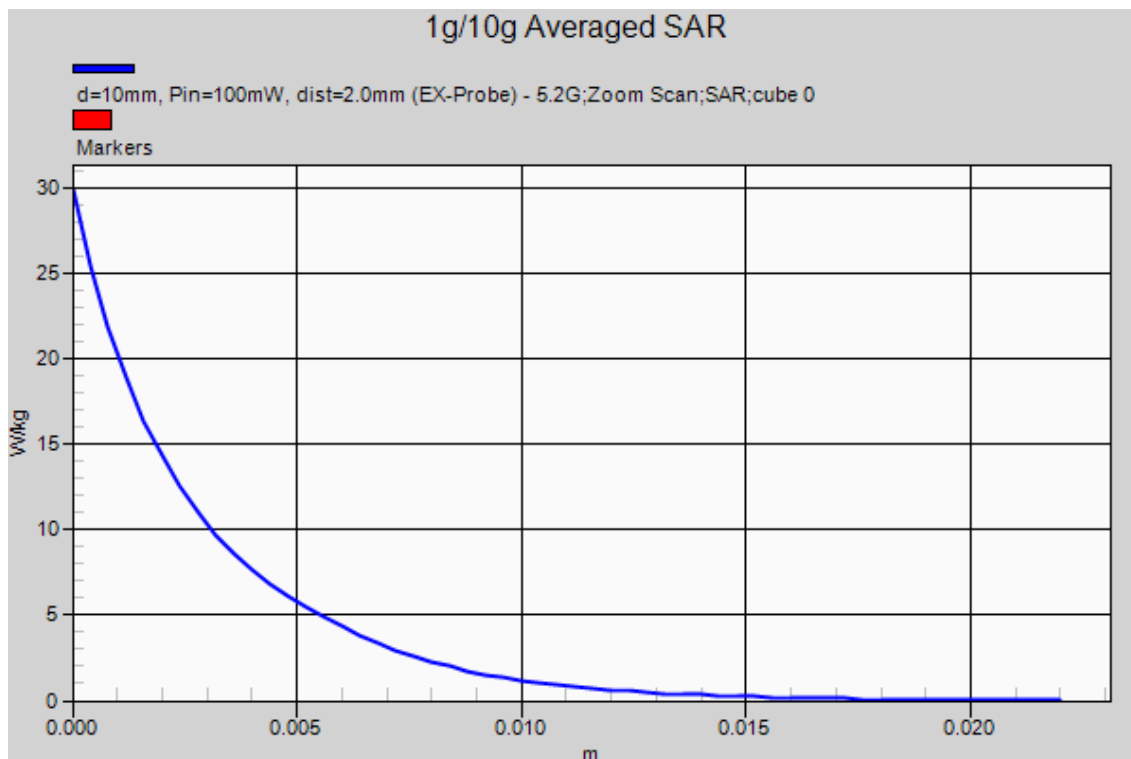
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 54.57 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 29.9 W/kg

**SAR(1 g) = 6.91 W/kg; SAR(10 g) = 1.96 W/kg**

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



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.752$  S/m;  $\epsilon_r = 48.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(3.7, 3.7, 3.7); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-1; Ambient Temp: 22.4; Tissue Temp: 23.2

**5500 MHz System Verification -Body-**

**Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

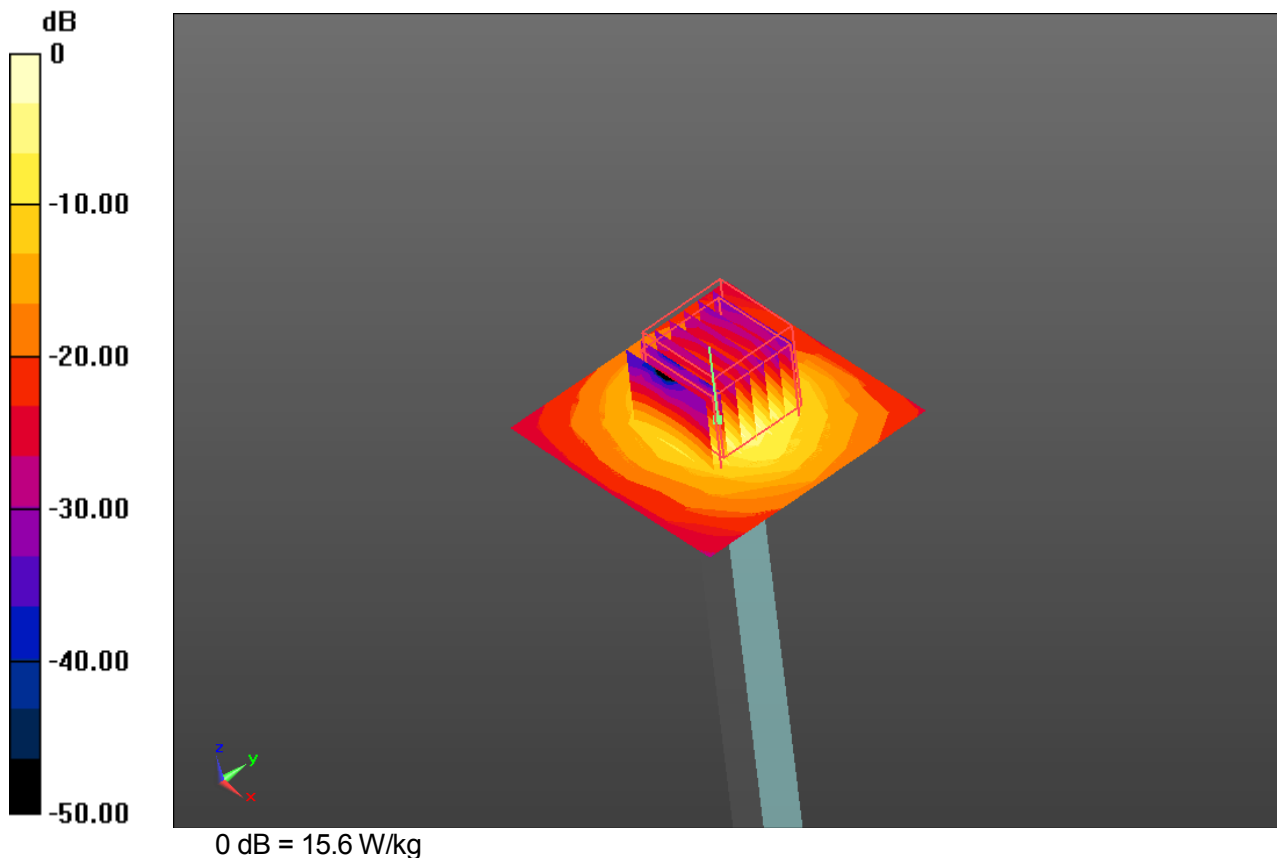
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 56.42 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 33.0 W/kg

**SAR(1 g) = 7.61 W/kg; SAR(10 g) = 2.15 W/kg**

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



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5500MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.752$  S/m;  $\epsilon_r = 48.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(3.7, 3.7, 3.7); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$ 

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-2; Ambient Temp: 22.4; Tissue Temp: 23.2

**5500 MHz System Verification -Body-****Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

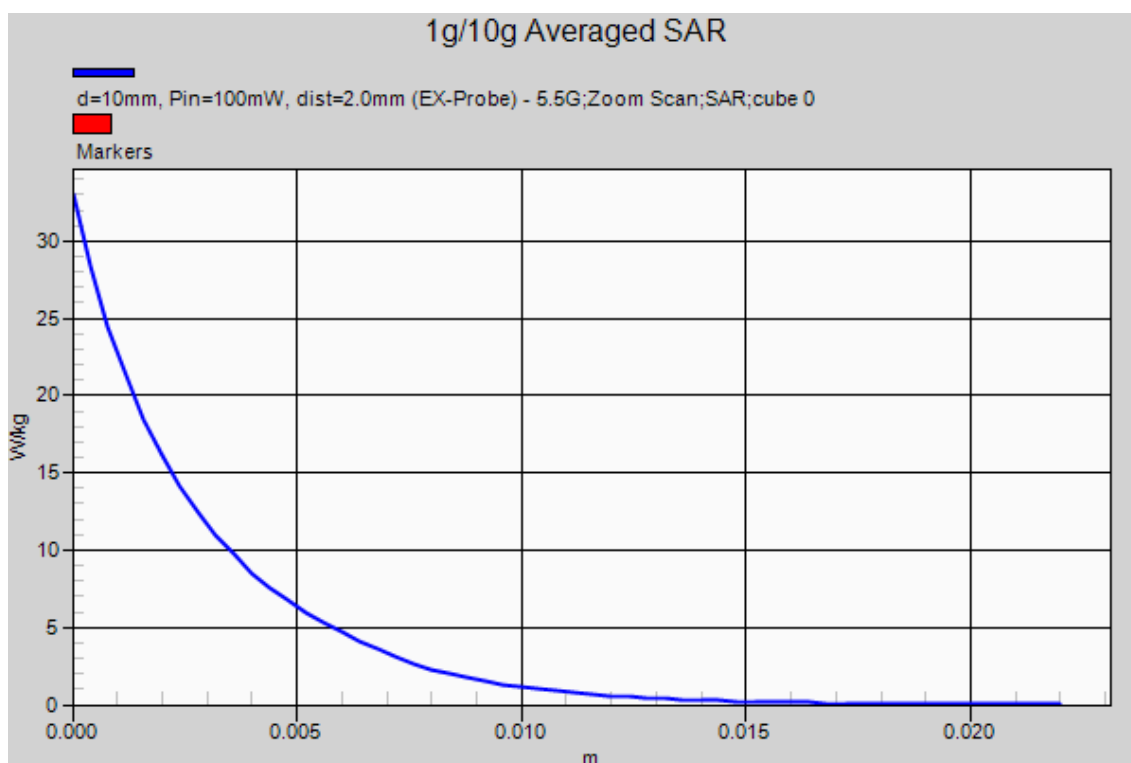
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 56.42 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 33.0 W/kg

**SAR(1 g) = 7.61 W/kg; SAR(10 g) = 2.15 W/kg**

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



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5800MHz

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.146$  S/m;  $\epsilon_r = 47.65$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(3.88, 3.88, 3.88); Calibrated: 4/15/2014;

Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$

Electronics: DAE4 Sn539; Calibrated: 10/15/2014

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

MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-2; Ambient Temp: 22.4; Tissue Temp: 23.2

**5800 MHz System Verification -Body-**

**Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 15.1 W/kg

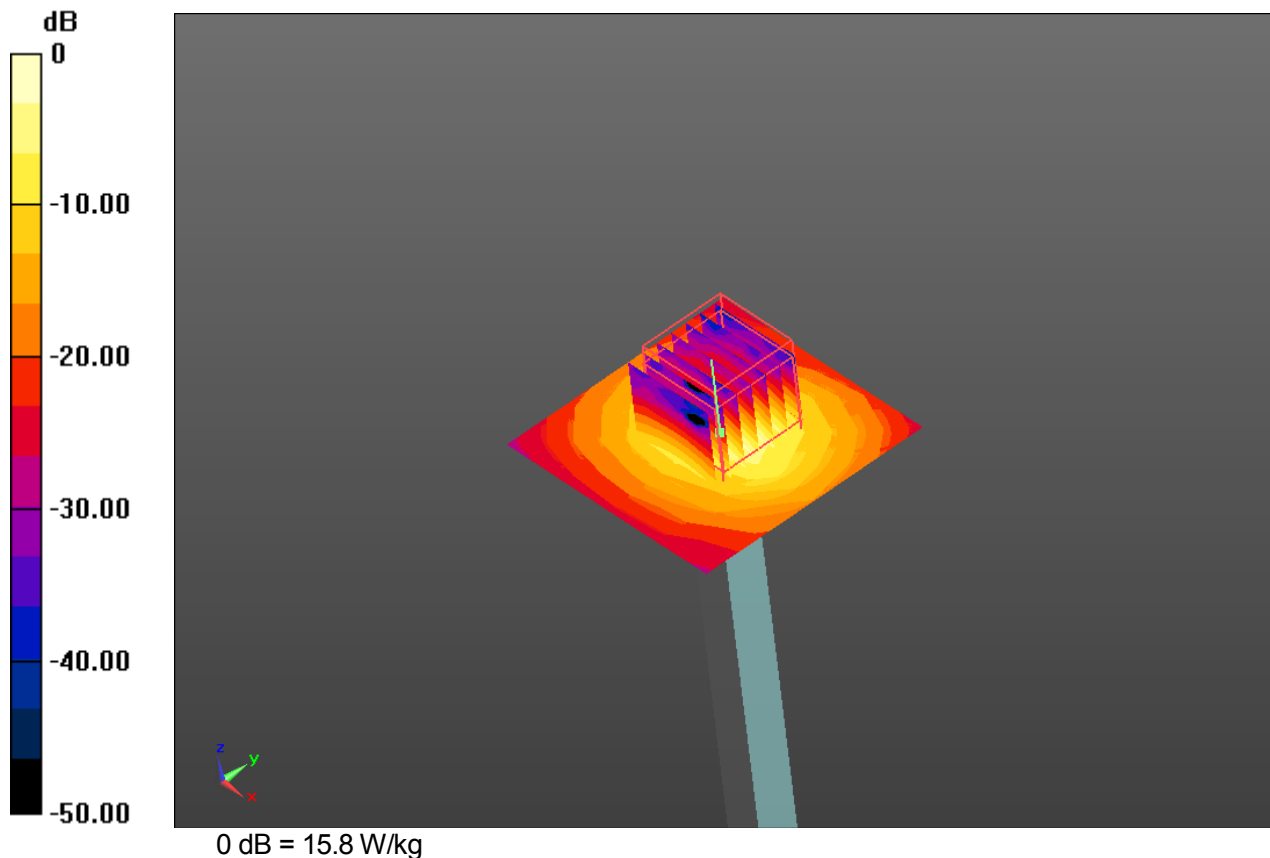
**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 54.19 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 34.6 W/kg

**SAR(1 g) = 7.61 W/kg; SAR(10 g) = 2.15 W/kg**

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



**DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: 1092**

Communication System: CW; Frequency: 5800MHz  
 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.146$  S/m;  $\epsilon_r = 47.65$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat section

**DASY Configuration**

Probe: EX3DV4 - SN3745; ConvF(3.88, 3.88, 3.88); Calibrated: 4/15/2014;  
 Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 21.0$   
 Electronics: DAE4 Sn539; Calibrated: 10/15/2014  
 Phantom: ELI v5.0 (20deg probe tilt) TP:1230; Type: QDOVA001BB; Serial: TP:1230  
 MEASUREMENT SW: DASY52, VERSION 52.8 (8);

Test date: 2014-12-2; Ambient Temp: 22.4; Tissue Temp: 23.2

**5800 MHz System Verification -Body-**

**Area Scan (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
 Maximum value of SAR (measured) = 15.1 W/kg

**Zoom Scan (7x7x11)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
 Reference Value = 54.19 V/m; Power Drift = 0.00 dB  
 Peak SAR (extrapolated) = 34.6 W/kg

**SAR(1 g) = 7.61 W/kg; SAR(10 g) = 2.15 W/kg**  
 Maximum value of SAR (measured) = 15.8 W/kg

