

**CDMA1900 Test Position 2 with DELL Laptop-antenna folded**

Date/Time: 2007-5-10 20:05:32

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 2/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.512 mW/g

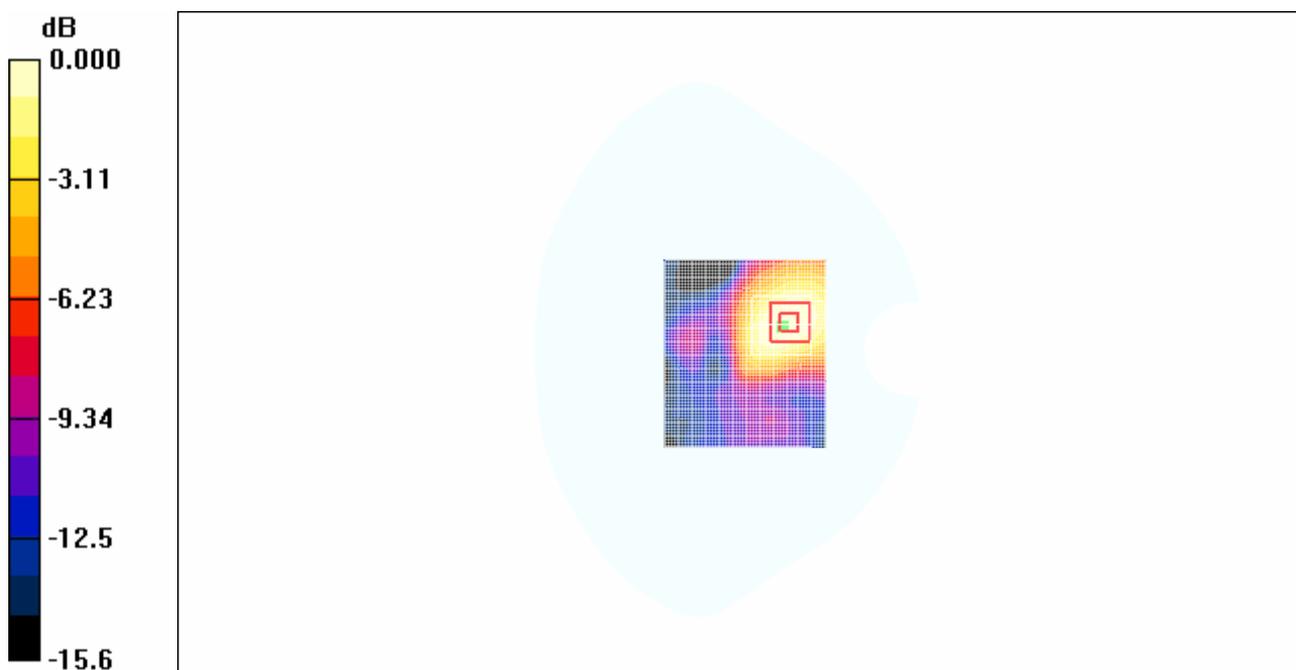
**Test Position 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.45 V/m; Power Drift = 0.164 dB

Peak SAR (extrapolated) = 0.655 W/kg

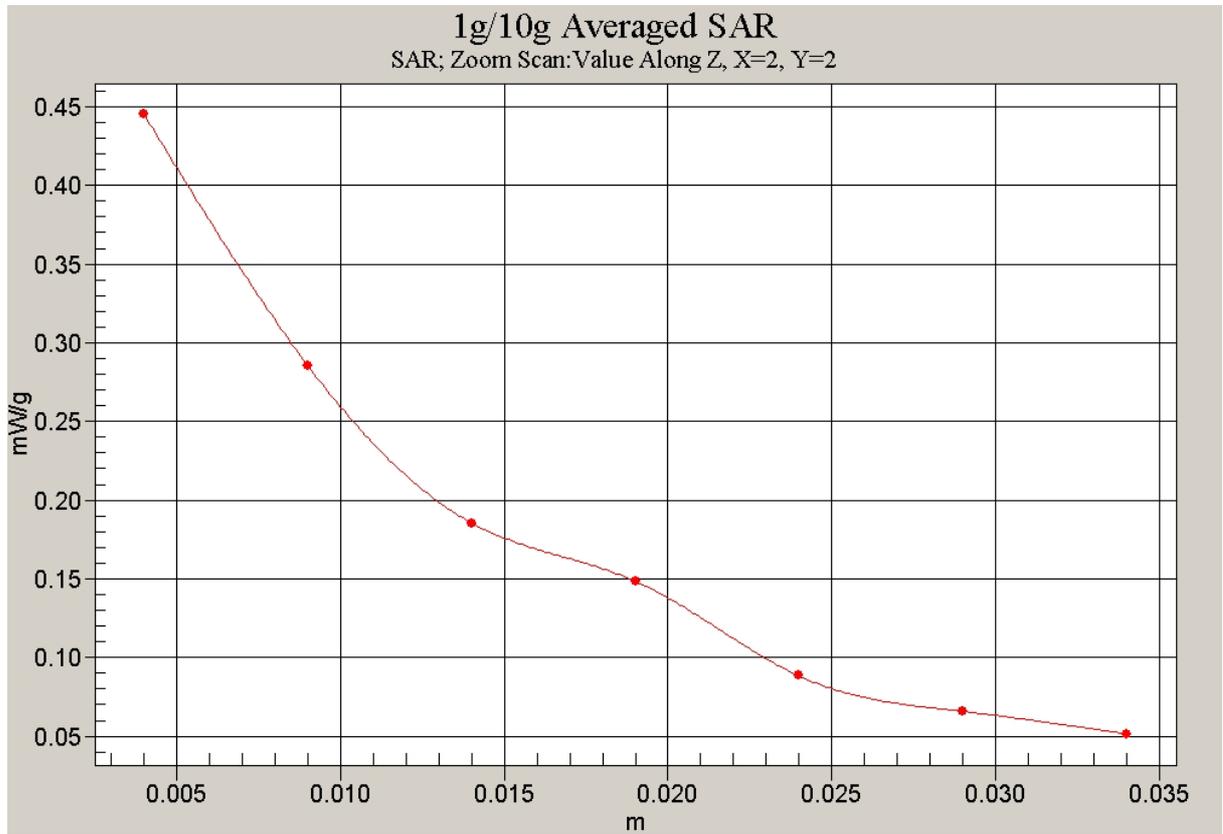
**SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.264 mW/g**

Maximum value of SAR (measured) = 0.445 mW/g



0 dB = 0.445mW/g

**Fig. 73 CDMA1900 CH600 Test Position 2-antenna unfolded**



**Fig.74 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 2-antenna unfolded)**

**CDMA1900 Test Position 3 with DELL Laptop-antenna unfolded**

Date/Time: 2007-5-10 18:19:25

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

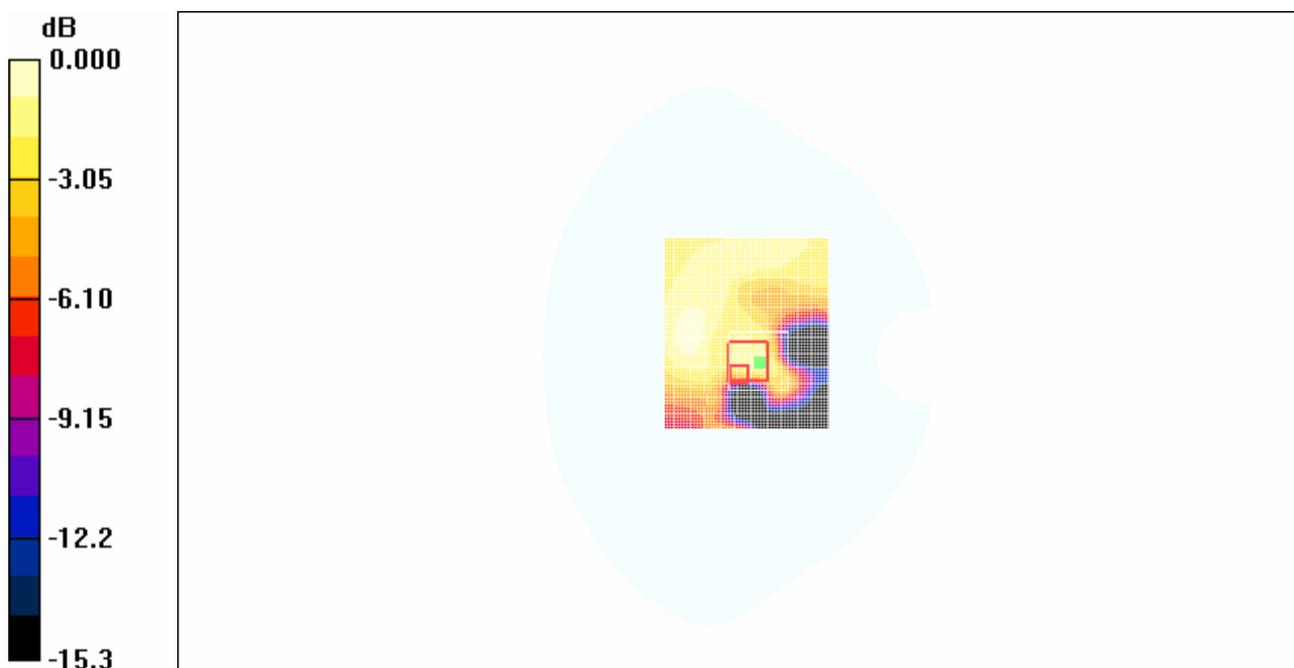
**Test Position 3/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.050 mW/g**Test Position 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

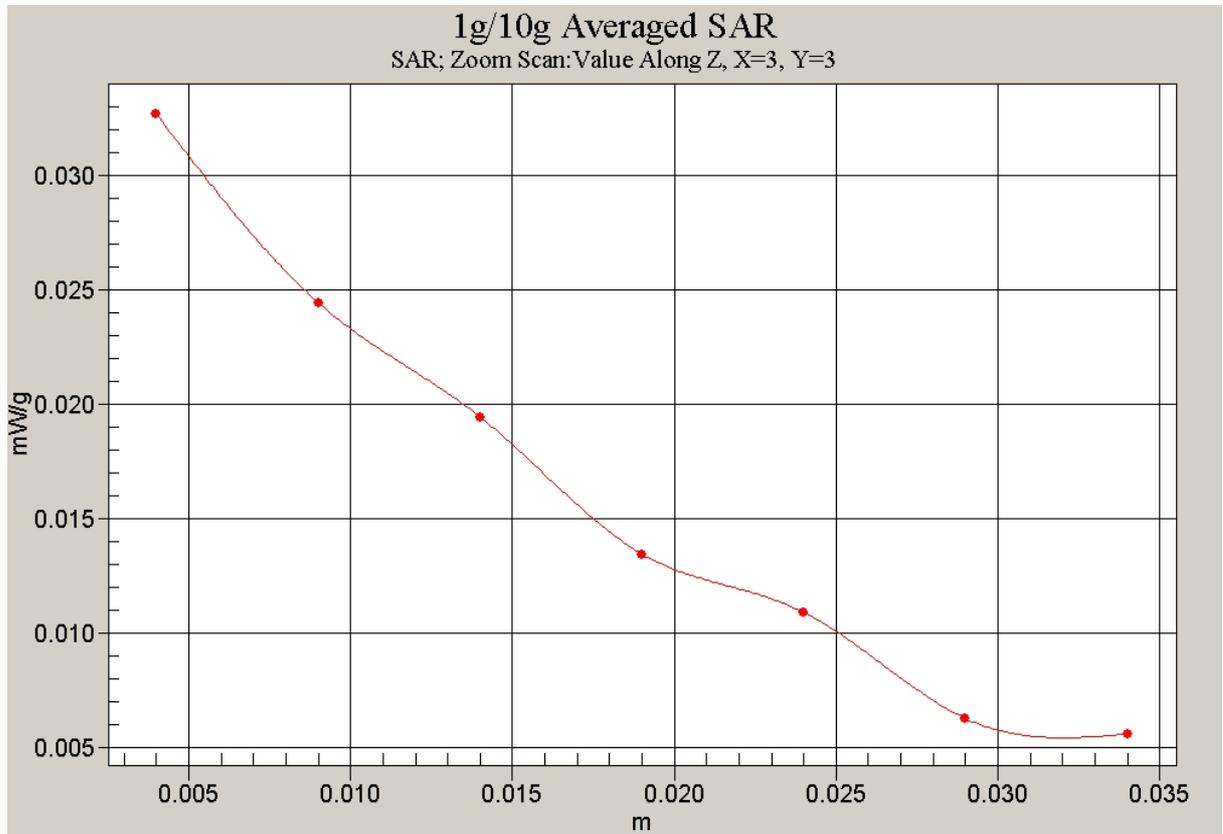
Reference Value = 4.67 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 0.065 W/kg

**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.019 mW/g**

Maximum value of SAR (measured) = 0.056 mW/g

**Fig. 75 CDMA1900 CH600 Test Position 3-antenna unfolded**



**Fig.76 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 3-antenna unfolded)**

**CDMA1900 Test Position 4 with DELL Laptop-antenna unfolded**

Date/Time: 2007-5-10 16:58:28

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 4/Area Scan (71x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.458 mW/g

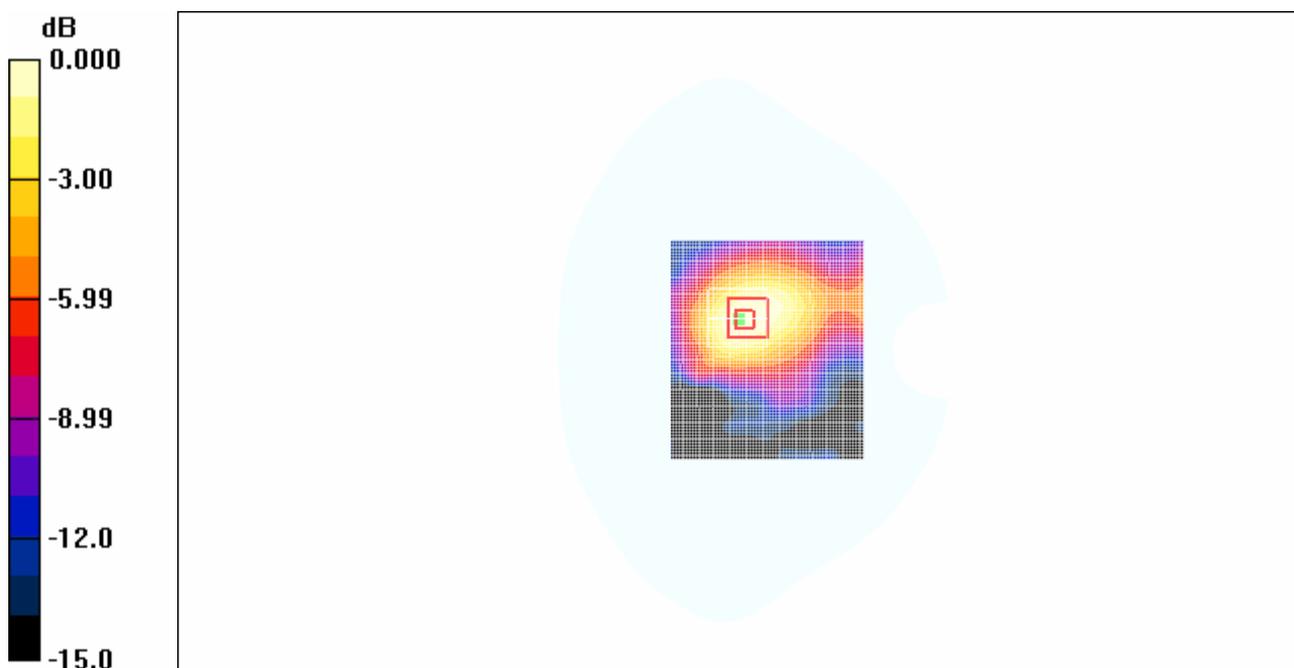
**Test Position 4/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.693 W/kg

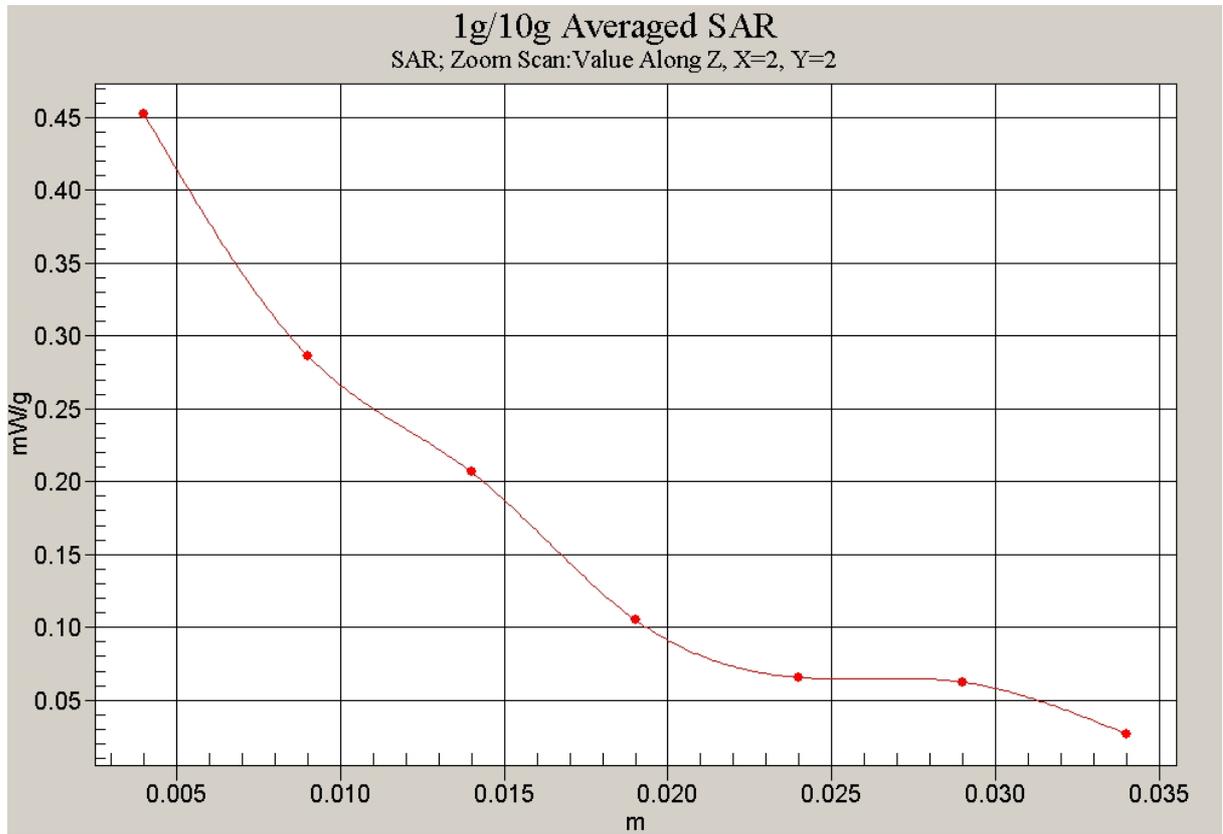
**SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.268 mW/g**

Maximum value of SAR (measured) = 0.452 mW/g



0 dB = 0.452mW/g

**Fig. 77 CDMA1900 CH600 Test Position 4-antenna unfolded**



**Fig.78 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 4-antenna unfolded)**

**CDMA1900 Test Position 5 with DELL Laptop-antenna unfolded**

Date/Time: 2007-5-10 18:44:28

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 5/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.546 mW/g

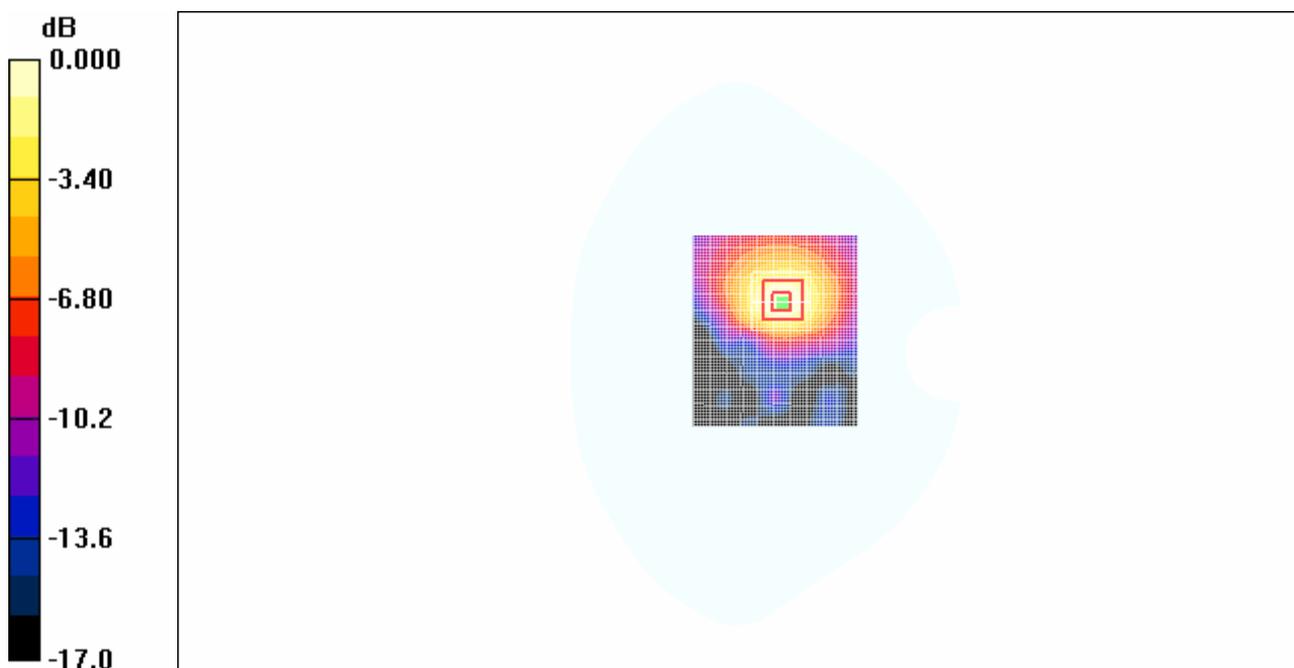
**Test Position 5/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

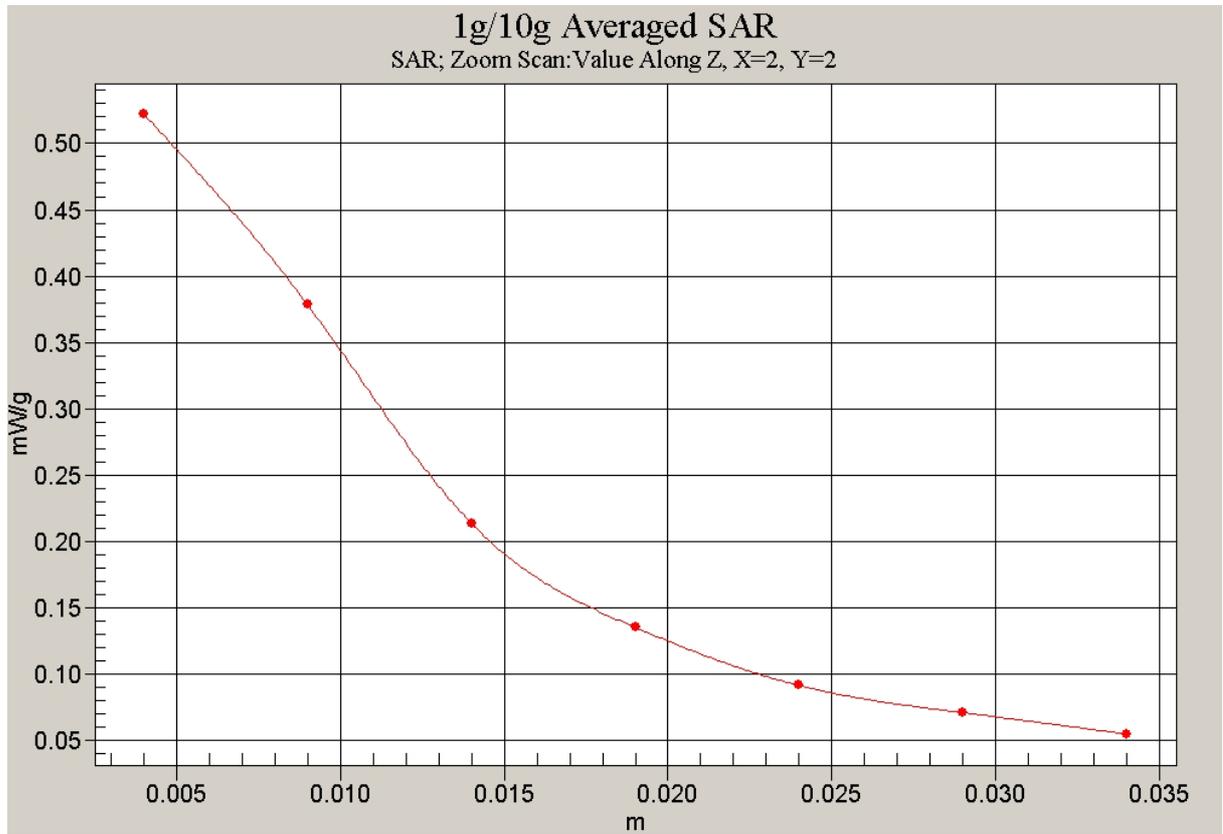
Reference Value = 3.78 V/m; Power Drift = 0.159 dB

Peak SAR (extrapolated) = 0.690 W/kg

**SAR(1 g) = 0.474 mW/g; SAR(10 g) = 0.276 mW/g**

Maximum value of SAR (measured) = 0.522 mW/g

**Fig. 79 CDMA1900 CH600 Test Position 5-antenna unfolded**



**Fig.80 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 5-antenna unfolded)**

**CDMA1900 Test Position 1 with HP Laptop-antenna folded**

Date/Time: 2007-5-10 9:20:16

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 1/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.268 mW/g

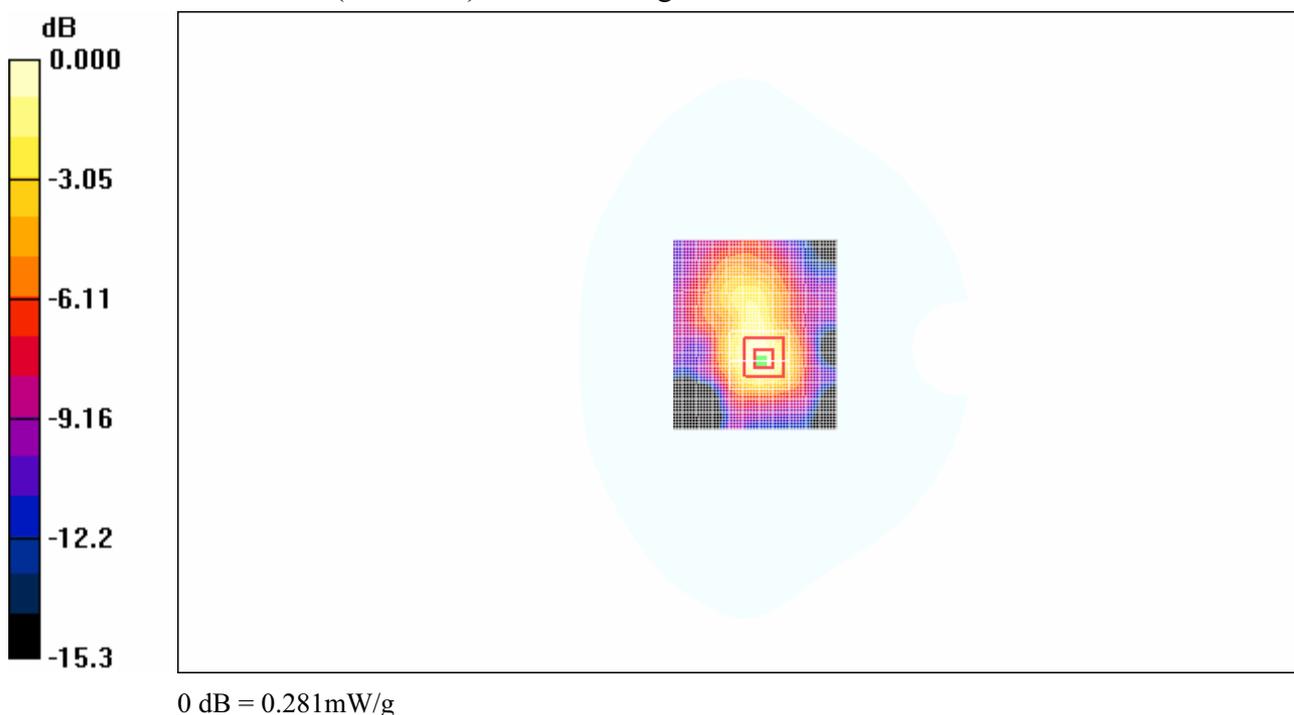
**Test Position 1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

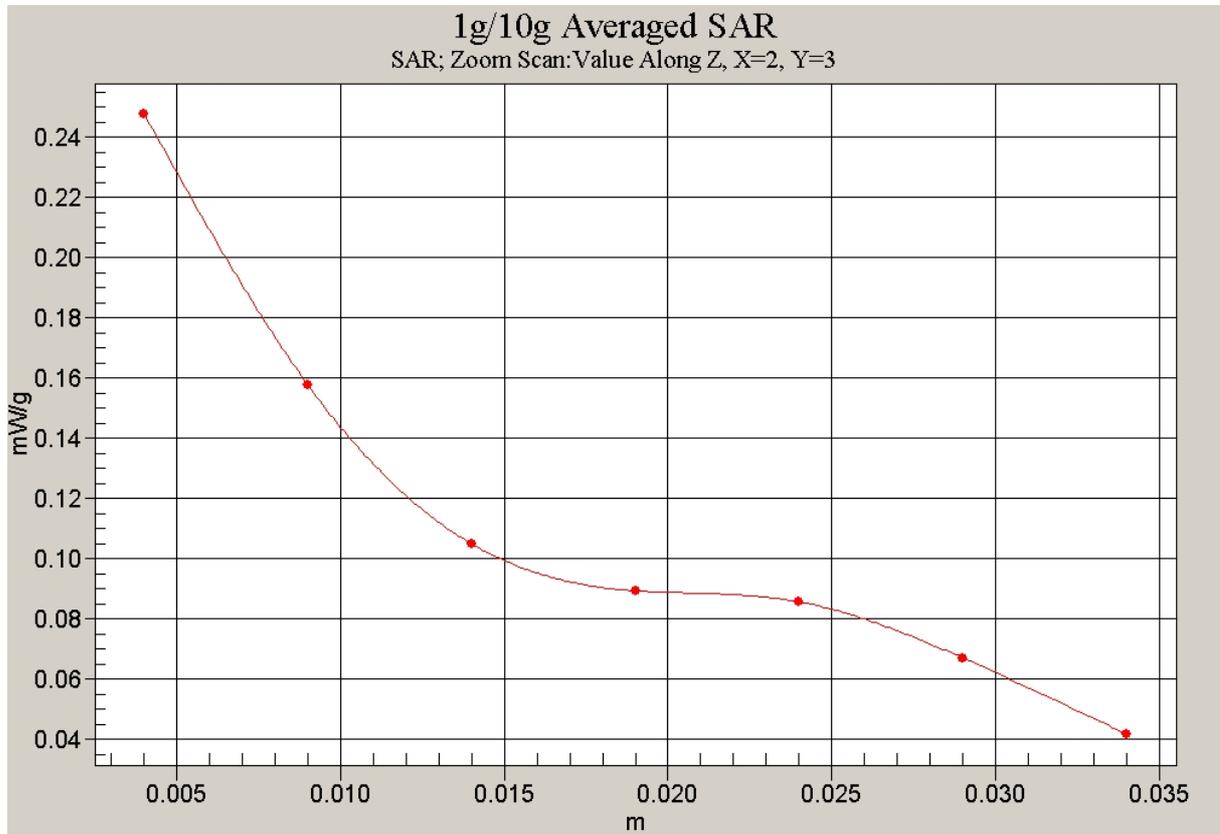
Reference Value = 13.0 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.423 W/kg

**SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.154 mW/g**

Maximum value of SAR (measured) = 0.281 mW/g

**Fig. 81 CDMA1900 CH600 Test Position 1-antenna folded**



**Fig.82 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 1-antenna folded)**

**CDMA1900 Test Position 2 with HP Laptop-antenna folded**

Date/Time: 2007-5-10 10:13:58

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 2/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 0.838 mW/g

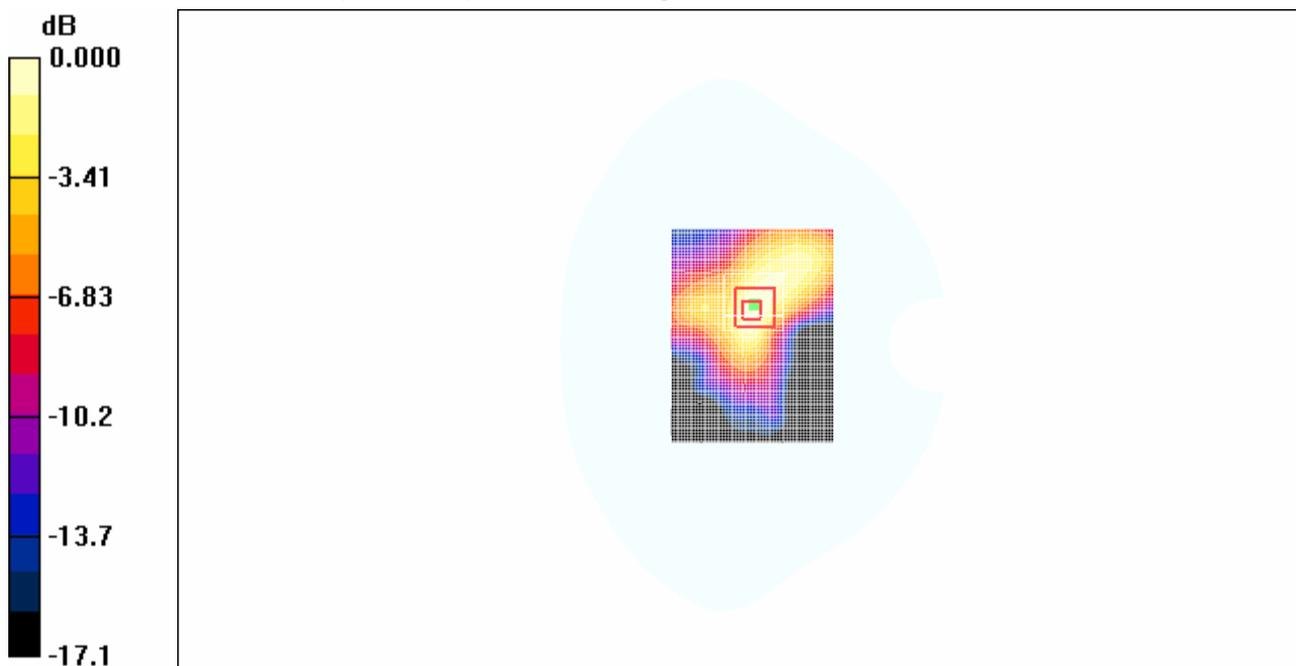
**Test Position 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.2 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 1.23 W/kg

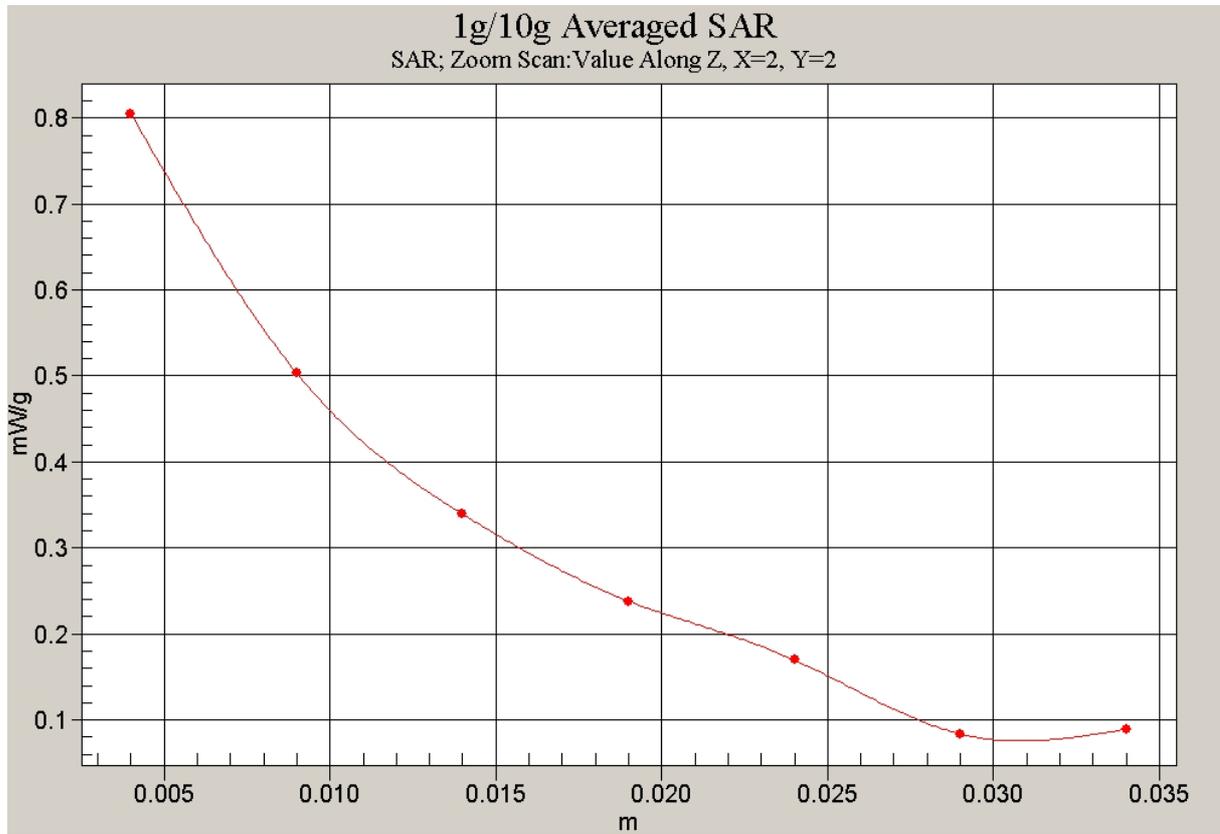
**SAR(1 g) = 0.751 mW/g; SAR(10 g) = 0.442 mW/g**

Maximum value of SAR (measured) = 0.812 mW/g



0 dB = 0.812mW/g

**Fig. 83 CDMA1900 CH600 Test Position 2-antenna folded**



**Fig.84 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 2-antenna folded)**

**CDMA1900 Test Position 3 with HP Laptop-antenna folded**

Date/Time: 2007-5-10 11:58:47

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 3/Area Scan (71x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.061 mW/g

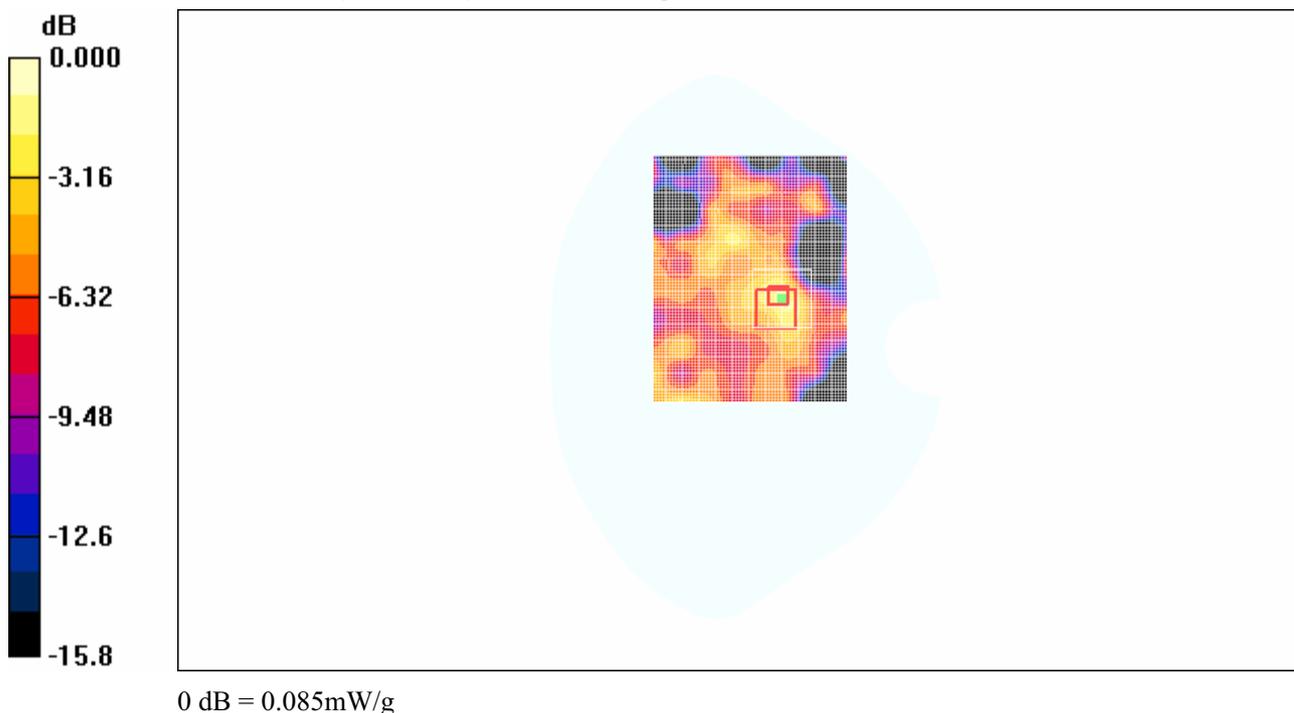
**Test Position 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

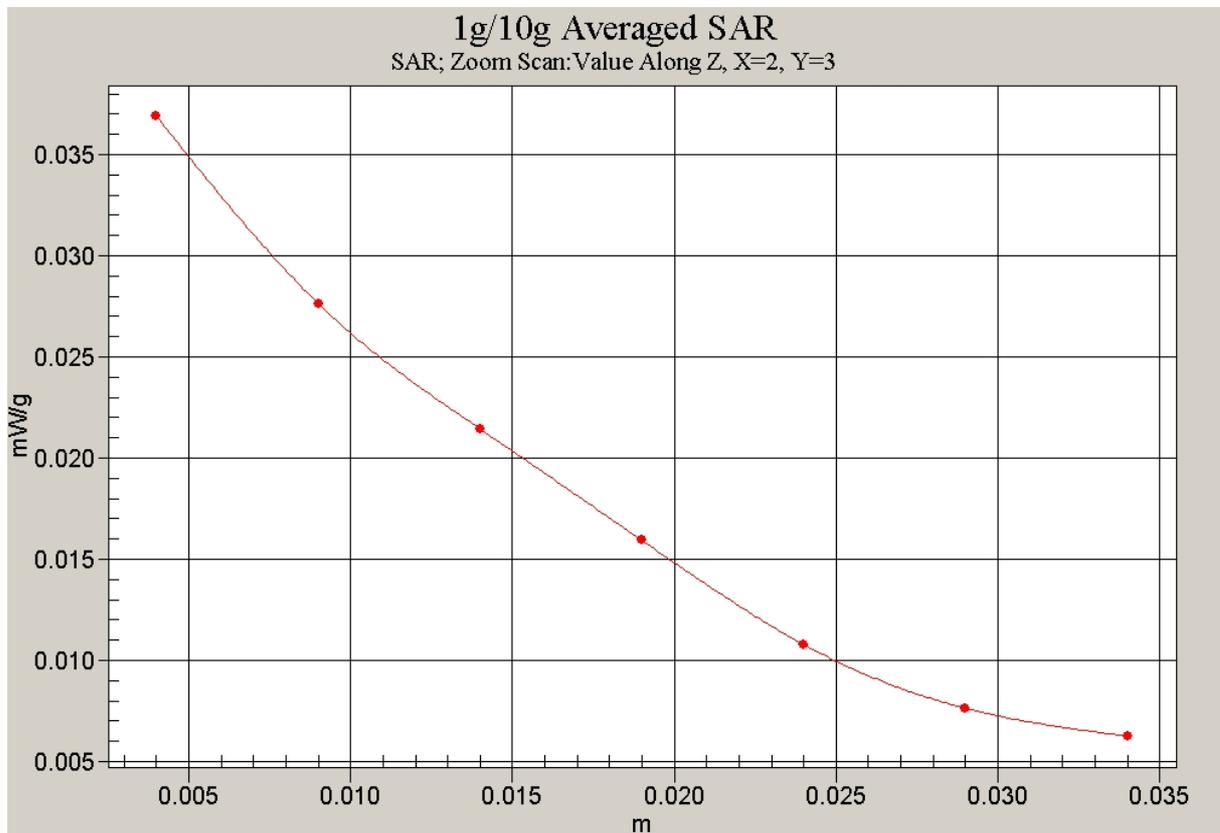
Reference Value = 3.33 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 0.085 W/kg

**SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.022 mW/g**

Maximum value of SAR (measured) = 0.085 mW/g

**Fig.85 CDMA1900 CH600 Test Position 3-antenna folded**



**Fig.86 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 3-antenna folded)**

**CDMA1900 Test Position 4 with HP Laptop-antenna folded**

Date/Time: 2007-5-10 16:24:12

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

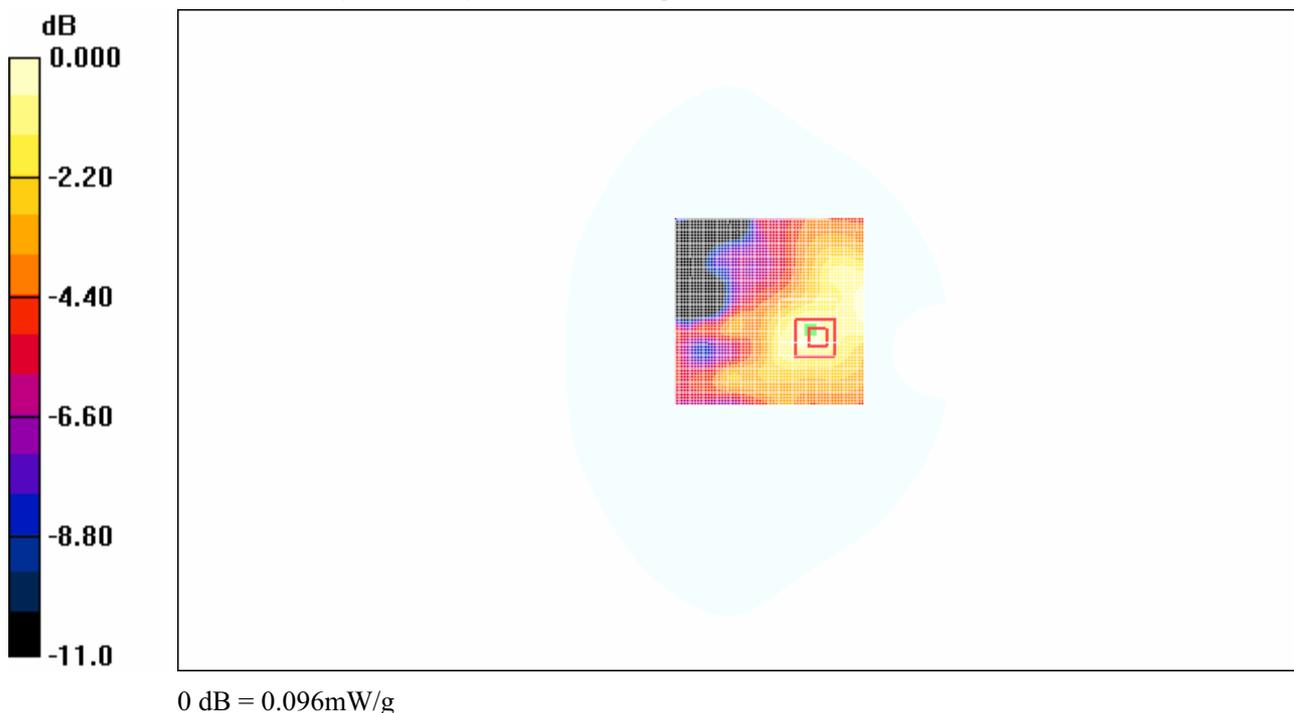
**Test Position 4/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.091 mW/g**Test Position 4/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

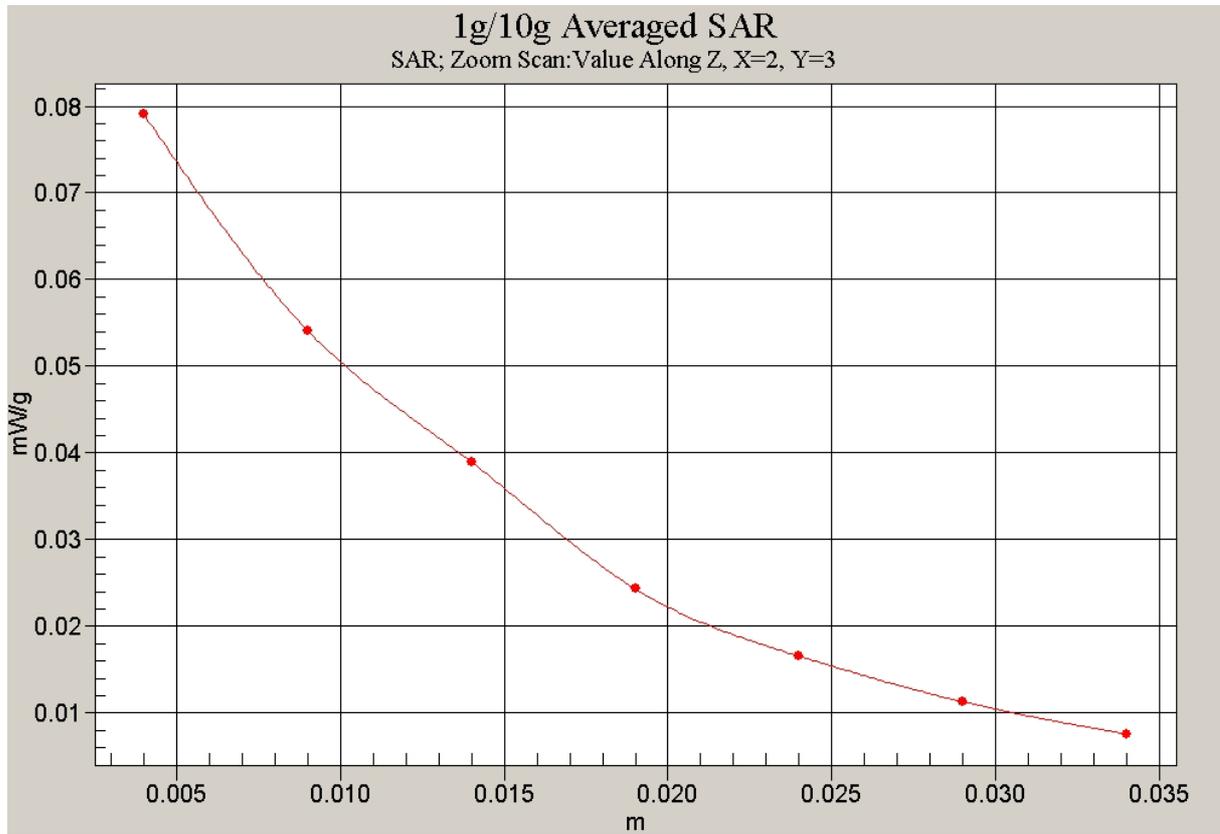
Reference Value = 5.72 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 0.121 W/kg

**SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.054 mW/g**

Maximum value of SAR (measured) = 0.096 mW/g

**Fig. 87 CDMA1900 CH600 Test Position 4-antenna folded**



**Fig.88 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 4-antenna folded)**

**CDMA1900 Test Position 5 with HP Laptop-antenna folded**

Date/Time: 2007-5-10 8:59:40

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 5/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 0.486 mW/g

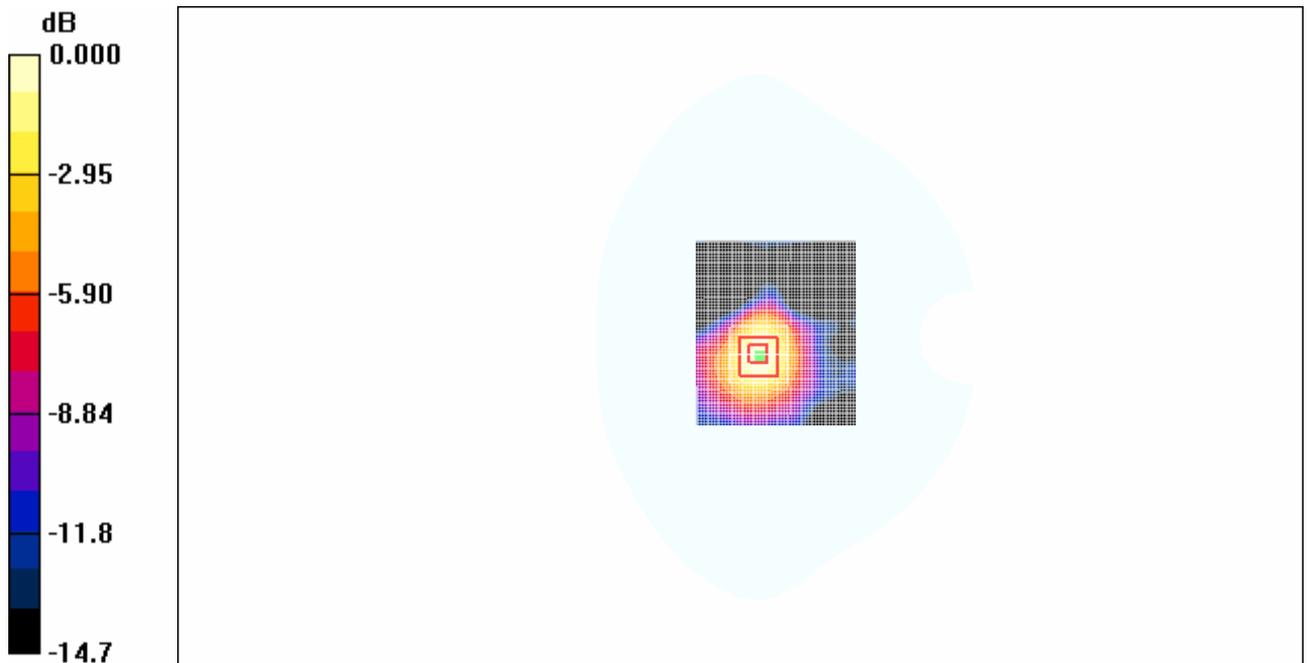
**Test Position 5/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.768 W/kg

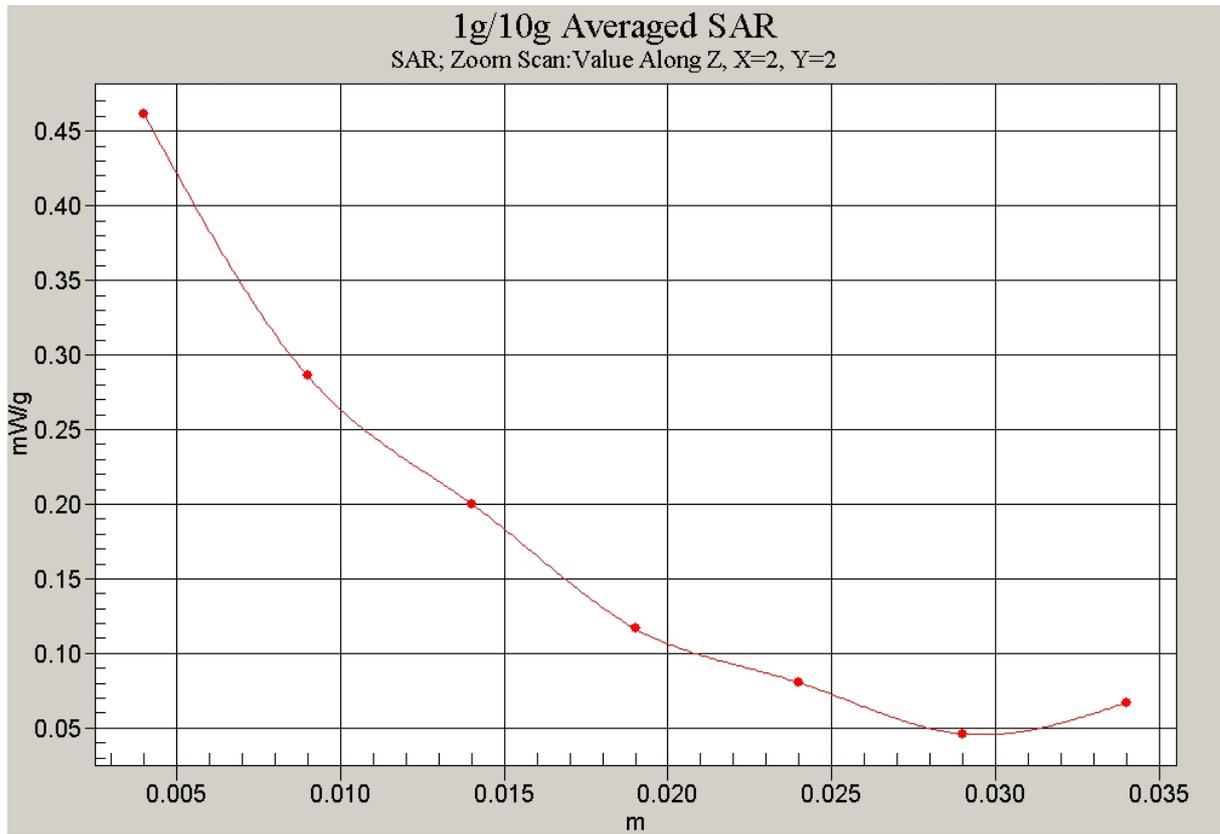
**SAR(1 g) = 0.429 mW/g; SAR(10 g) = 0.258 mW/g**

Maximum value of SAR (measured) = 0.461 mW/g



0 dB = 0.461mW/g

**Fig. 89 CDMA1900 CH600 Test Position 5-antenna folded**



**Fig.90 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 5-antenna folded)**

**CDMA1900 Test Position 1 with HP Laptop-antenna unfolded**

Date/Time: 2007-5-10 9:40:37

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 1/Area Scan (71x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.085 mW/g

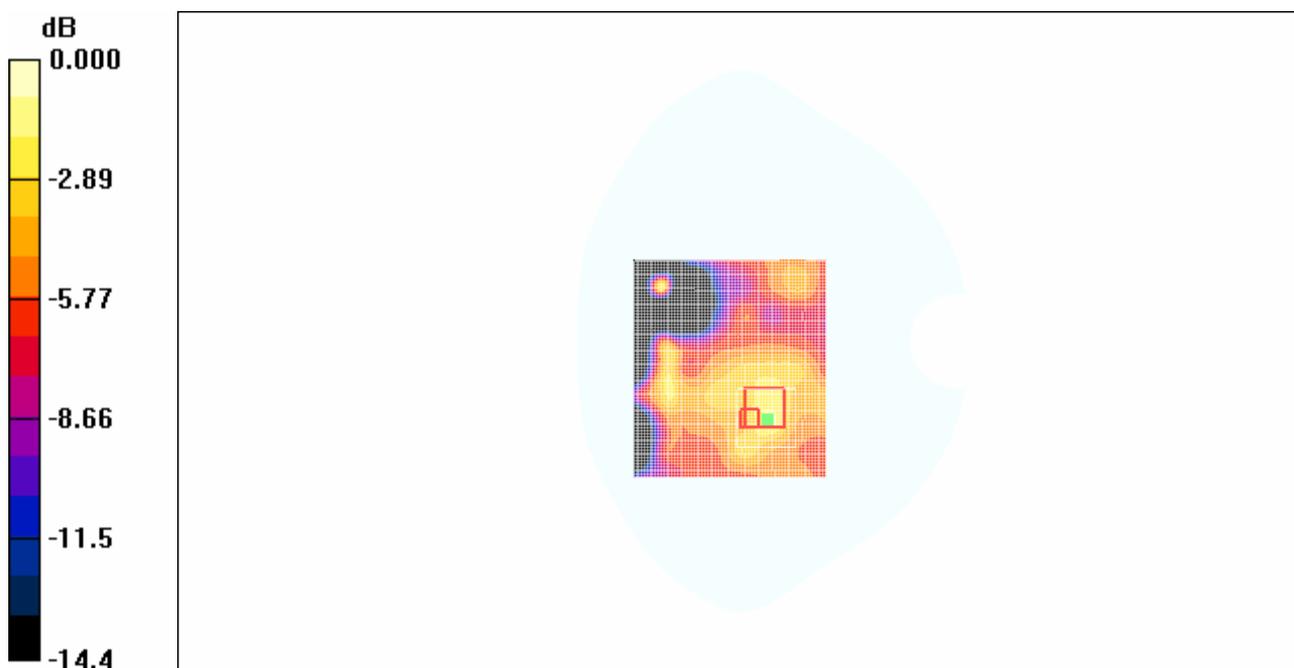
**Test Position 1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.61 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 0.143 W/kg

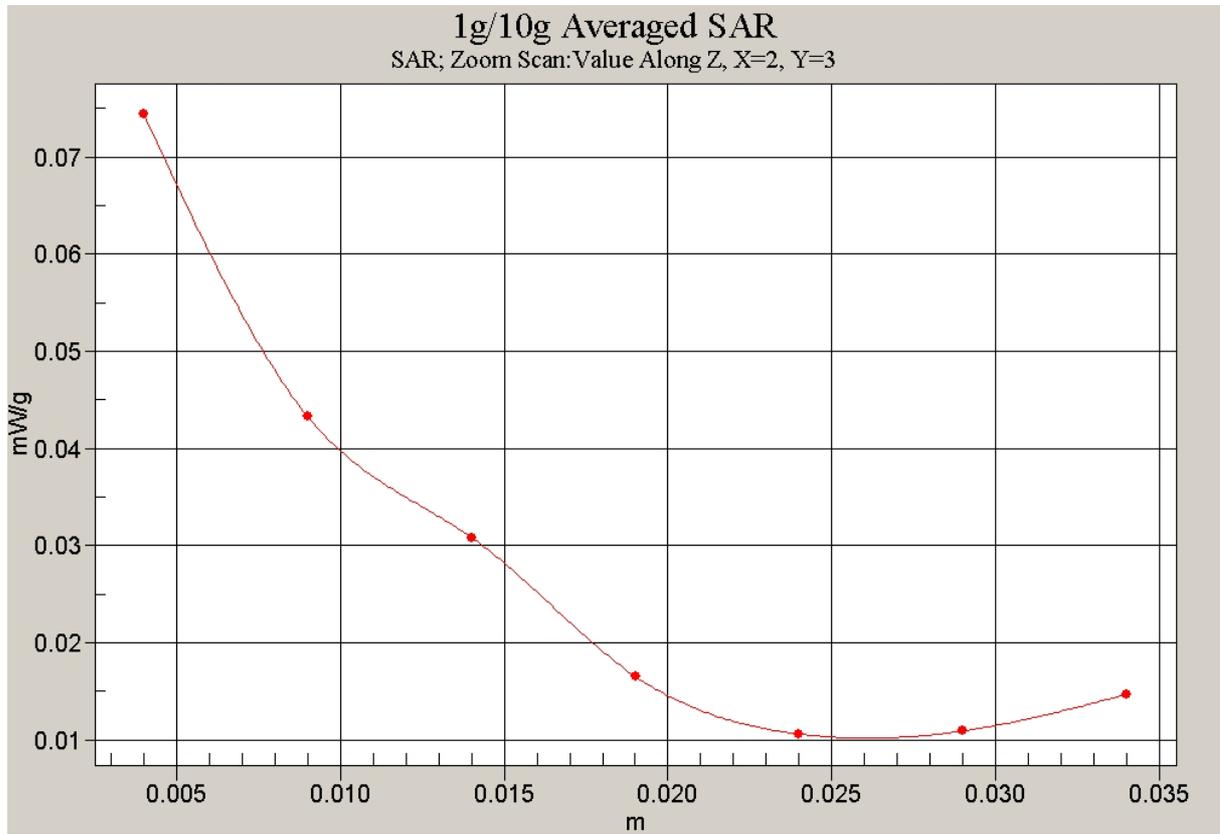
**SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.043 mW/g**

Maximum value of SAR (measured) = 0.118 mW/g



0 dB = 0.118mW/g

**Fig. 91 CDMA1900 CH600 Test Position 1-antenna unfolded**



**Fig.92 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 1-antenna unfolded)**

**CDMA1900 Test Position 2 with HP Laptop-antenna folded**

Date/Time: 2007-5-10 10:00:57

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

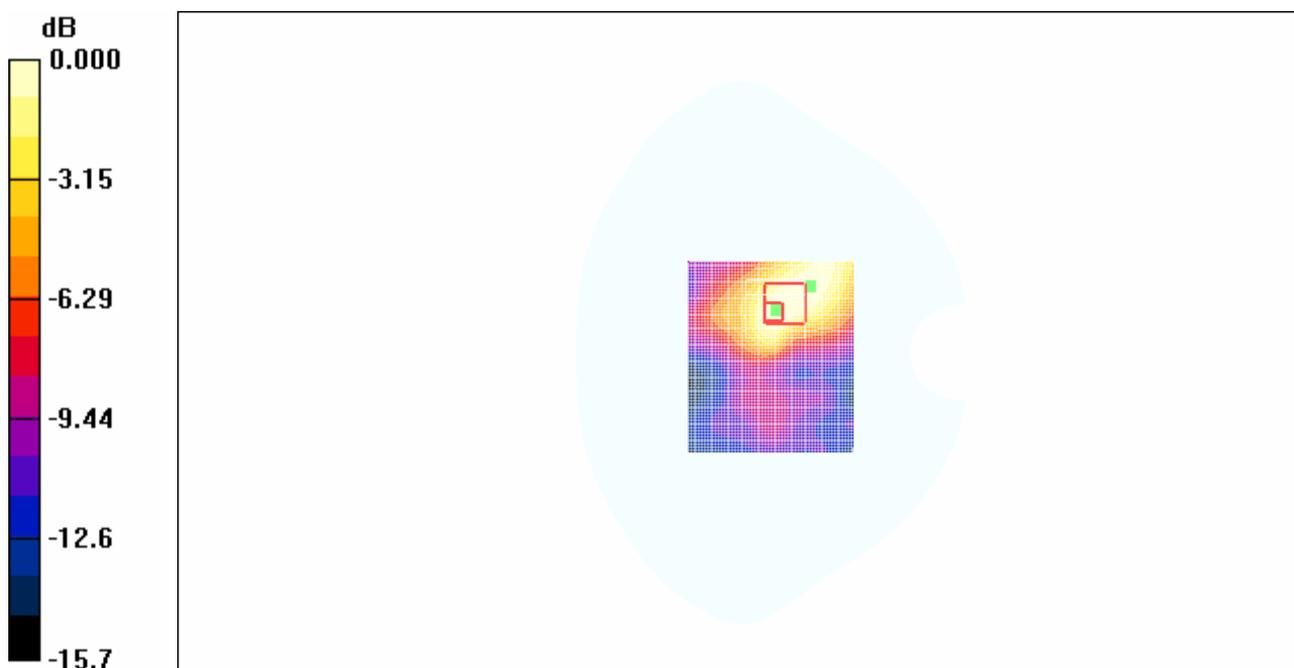
**Test Position 2/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.705 mW/g**Test Position 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

Reference Value = 11.3 V/m; Power Drift = -0.006 dB

Peak SAR (extrapolated) = 1.08 W/kg

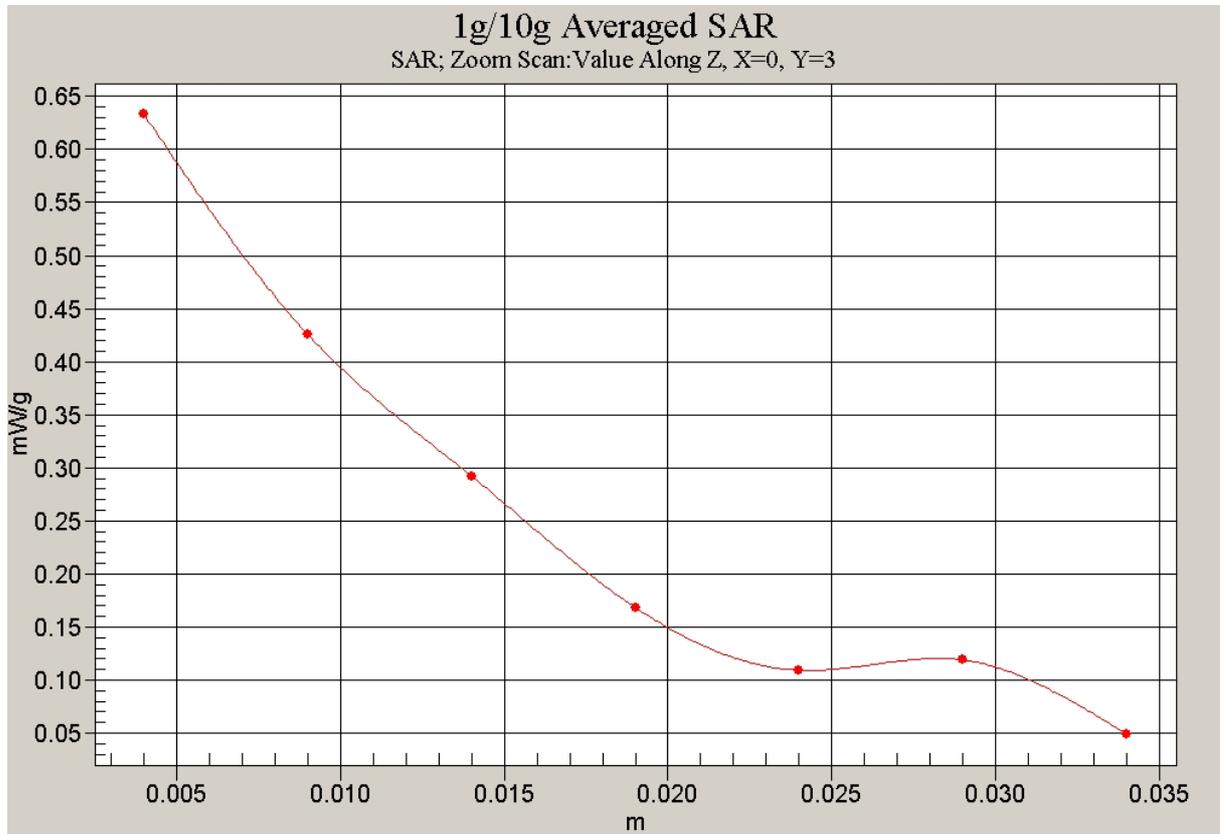
**SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.361 mW/g**

Maximum value of SAR (measured) = 0.630 mW/g



0 dB = 0.630mW/g

**Fig. 93 CDMA1900 CH600 Test Position 2-antenna unfolded**



**Fig.94 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 2-antenna unfolded)**

**CDMA1900 Test Position 3 with HP Laptop-antenna unfolded**

Date/Time: 2007-5-10 11:03:48

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 3/Area Scan (71x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.072 mW/g

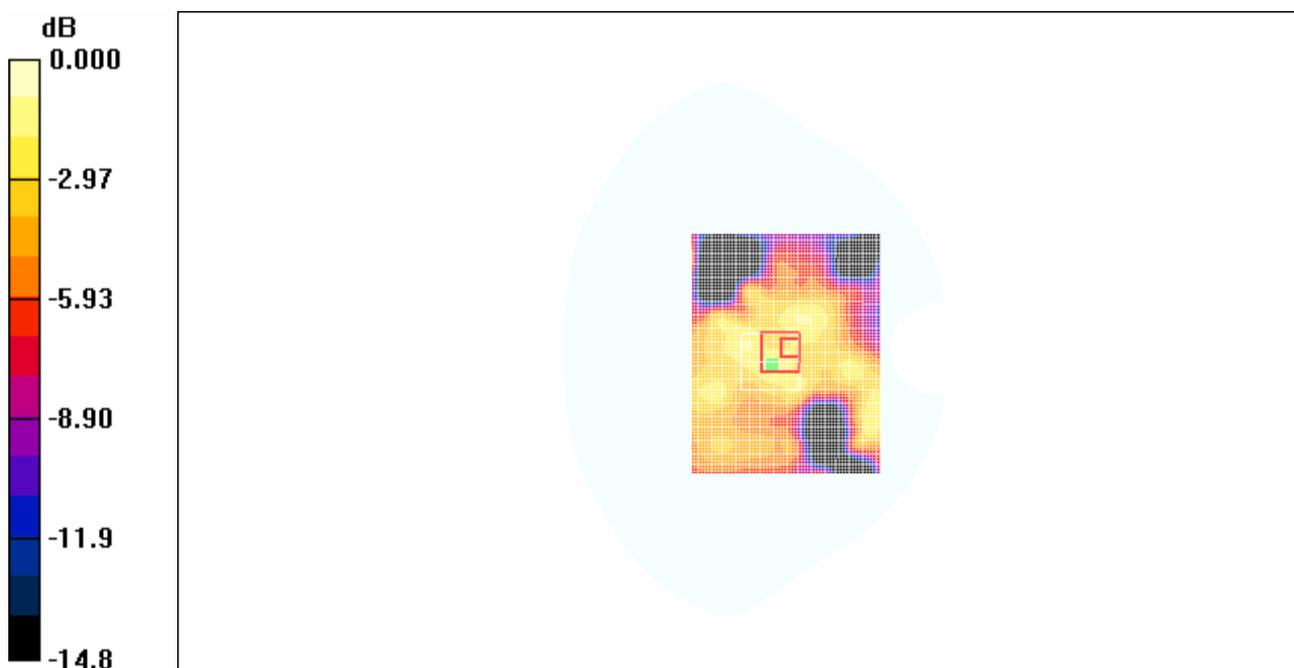
**Test Position 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.84 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 0.135 W/kg

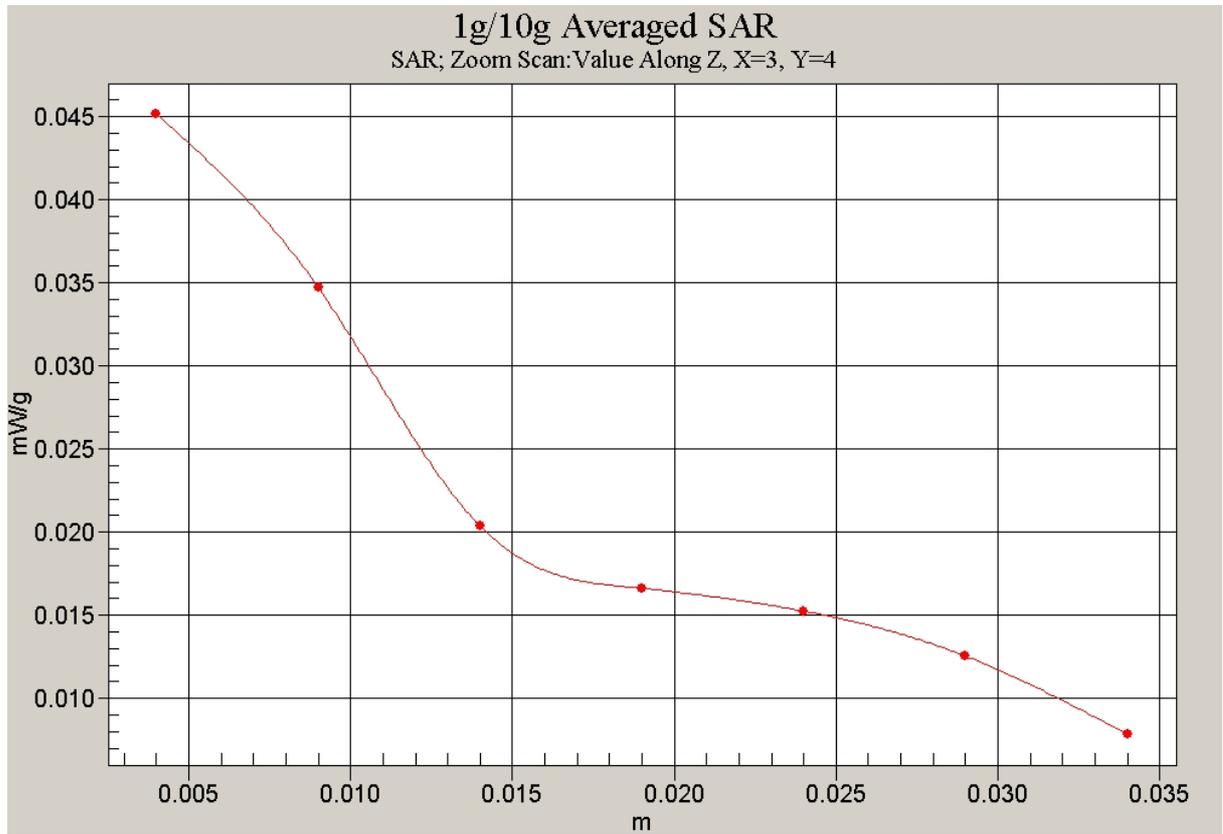
**SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.047 mW/g**

Maximum value of SAR (measured) = 0.103 mW/g



0 dB = 0.103mW/g

**Fig. 95 CDMA1900 CH600 Test Position 3-antenna unfolded**



**Fig.96 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 3-antenna unfolded)**

**CDMA1900 Test Position 4 with HP Laptop-antenna unfolded**

Date/Time: 2007-5-10 16:37:43

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

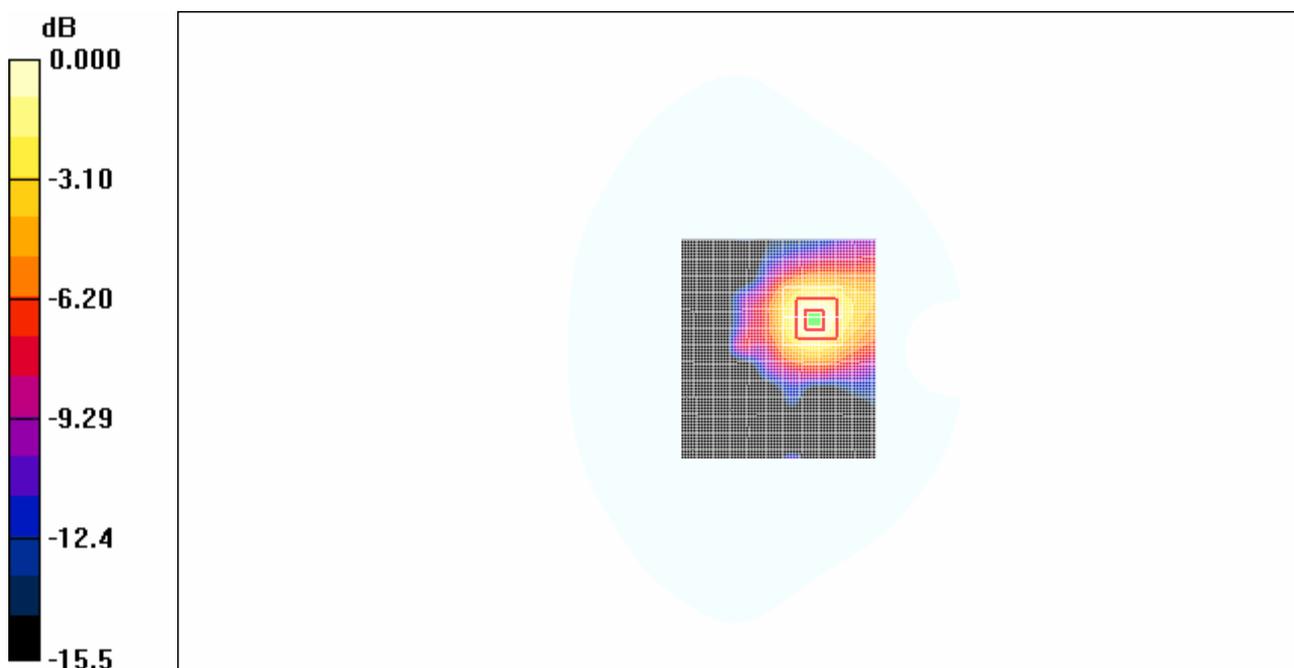
**Test Position 4/Area Scan (71x81x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.608 mW/g**Test Position 4/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

Reference Value = 6.72 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 0.854 W/kg

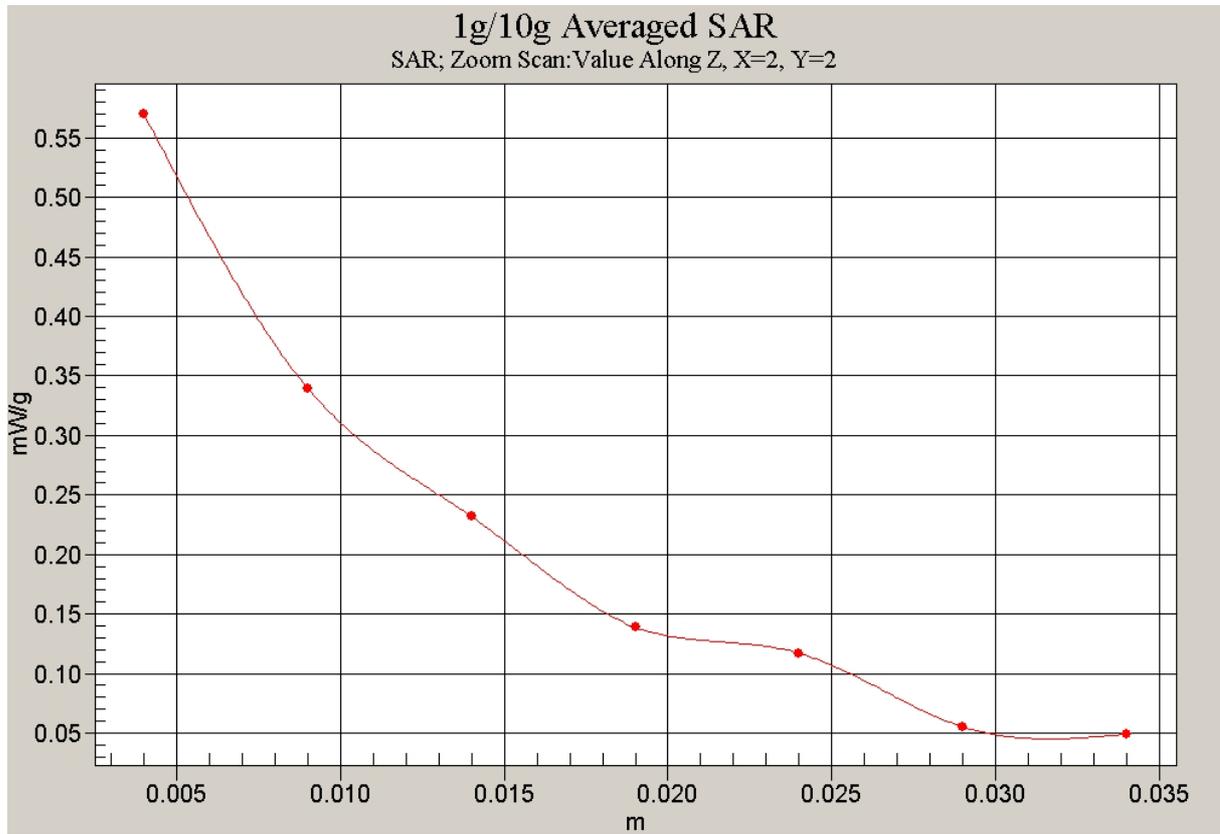
**SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.309 mW/g**

Maximum value of SAR (measured) = 0.570 mW/g



0 dB = 0.570mW/g

**Fig. 97 CDMA1900 CH600 Test Position 4-antenna unfolded**



**Fig.98 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 4-antenna unfolded)**

**CDMA1900 Test Position 5 with HP Laptop-antenna unfolded**

Date/Time: 2007-5-10 8:42:10

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 5/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.506 mW/g

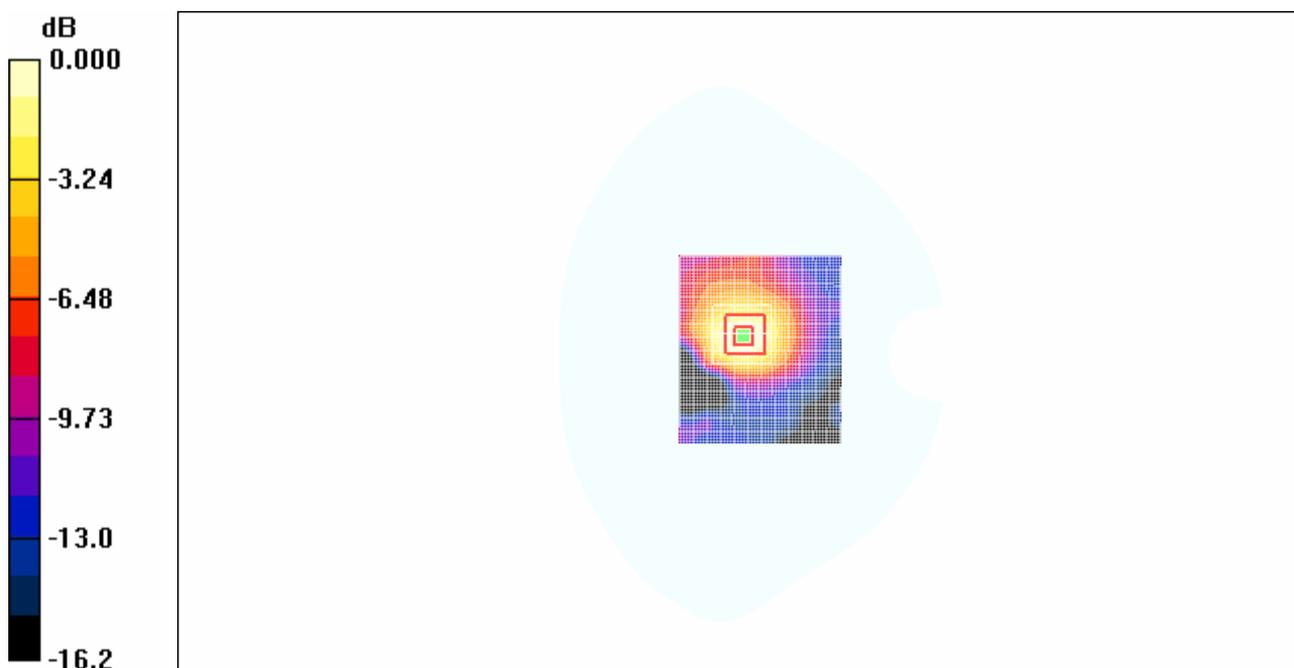
**Test Position 5/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.5 V/m; Power Drift = -0.129 dB

Peak SAR (extrapolated) = 0.692 W/kg

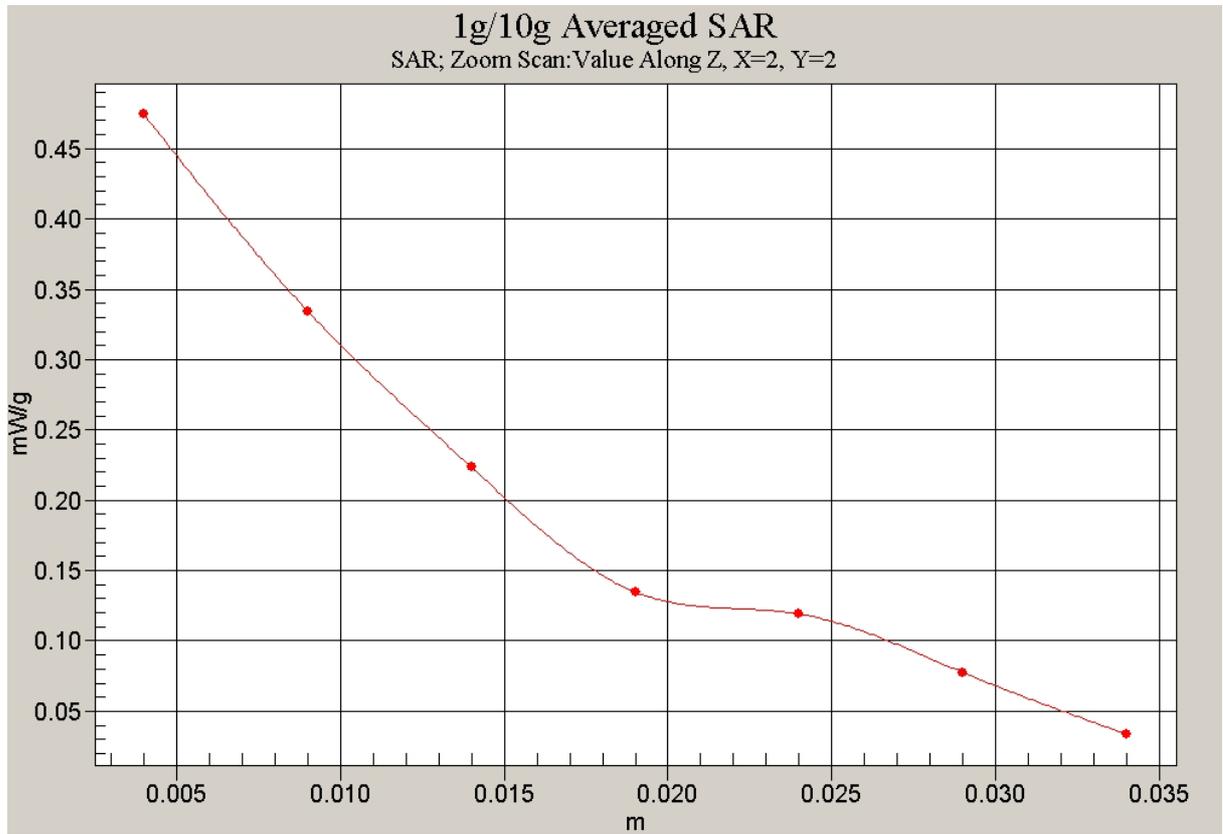
**SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.263 mW/g**

Maximum value of SAR (measured) = 0.474 mW/g



0 dB = 0.474mW/g

**Fig. 99 CDMA1900 CH600 Test Position 5-antenna unfolded**



**Fig.100 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 5-antenna unfolded)**

**CDMA1900 Test Position 1 with IBM Laptop-antenna folded**

Date/Time: 2007-5-10 12:30:35

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 1/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.337 mW/g

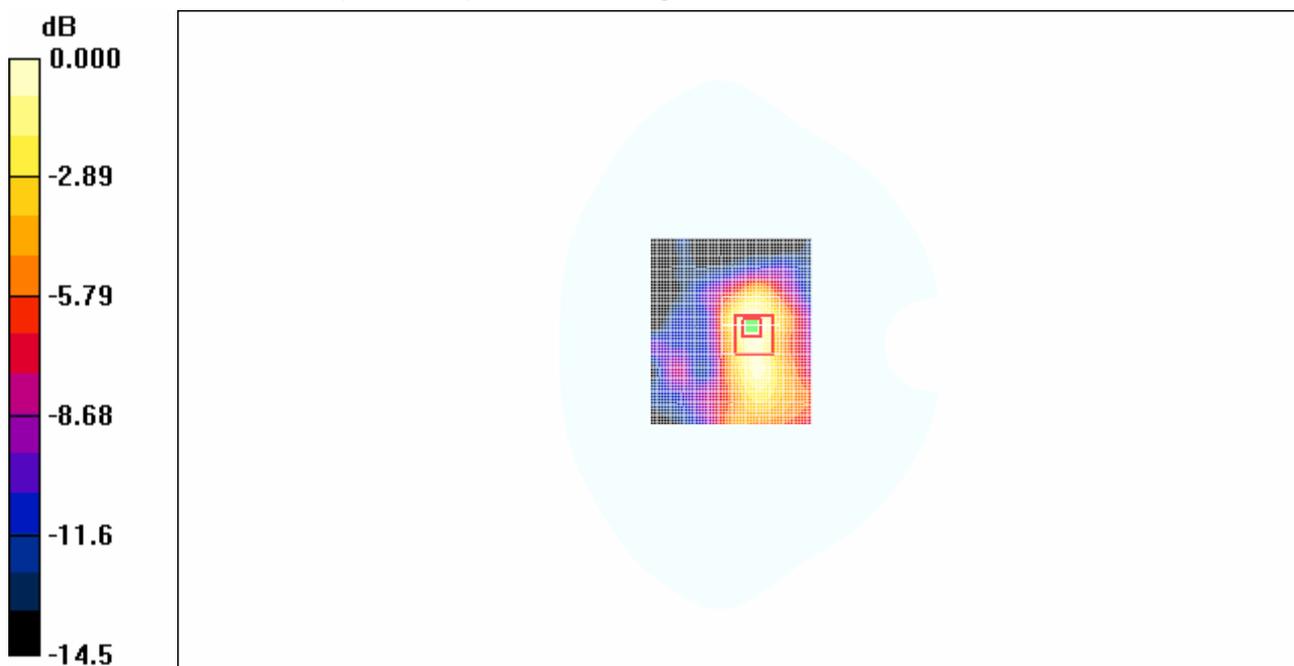
**Test Position 1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

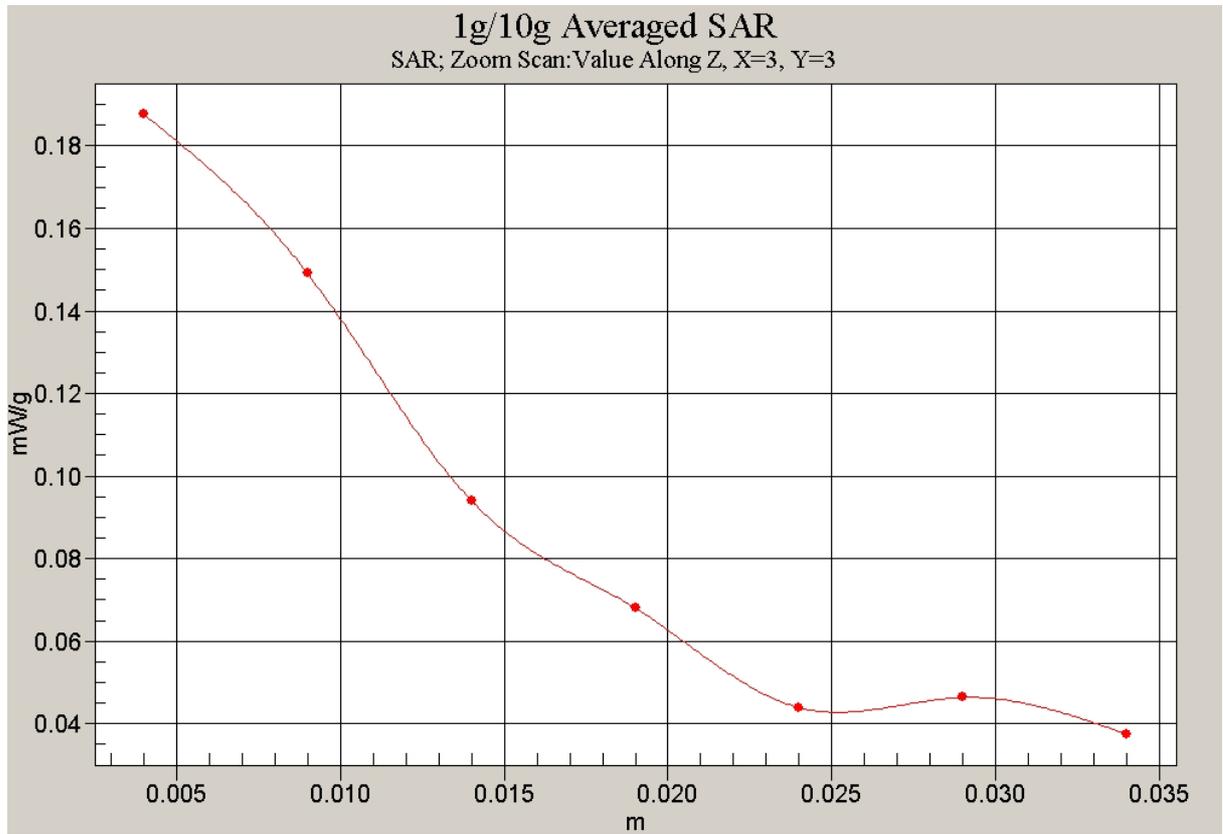
Reference Value = 14.5 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 0.506 W/kg

**SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.181 mW/g**

Maximum value of SAR (measured) = 0.326 mW/g

**Fig. 101 CDMA1900 CH600 Test Position 1-antenna folded**



**Fig.102 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 1-antenna folded)**

**CDMA1900 Test Position 2 with IBM Laptop-antenna folded**

Date/Time: 2007-5-10 13:21:02

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

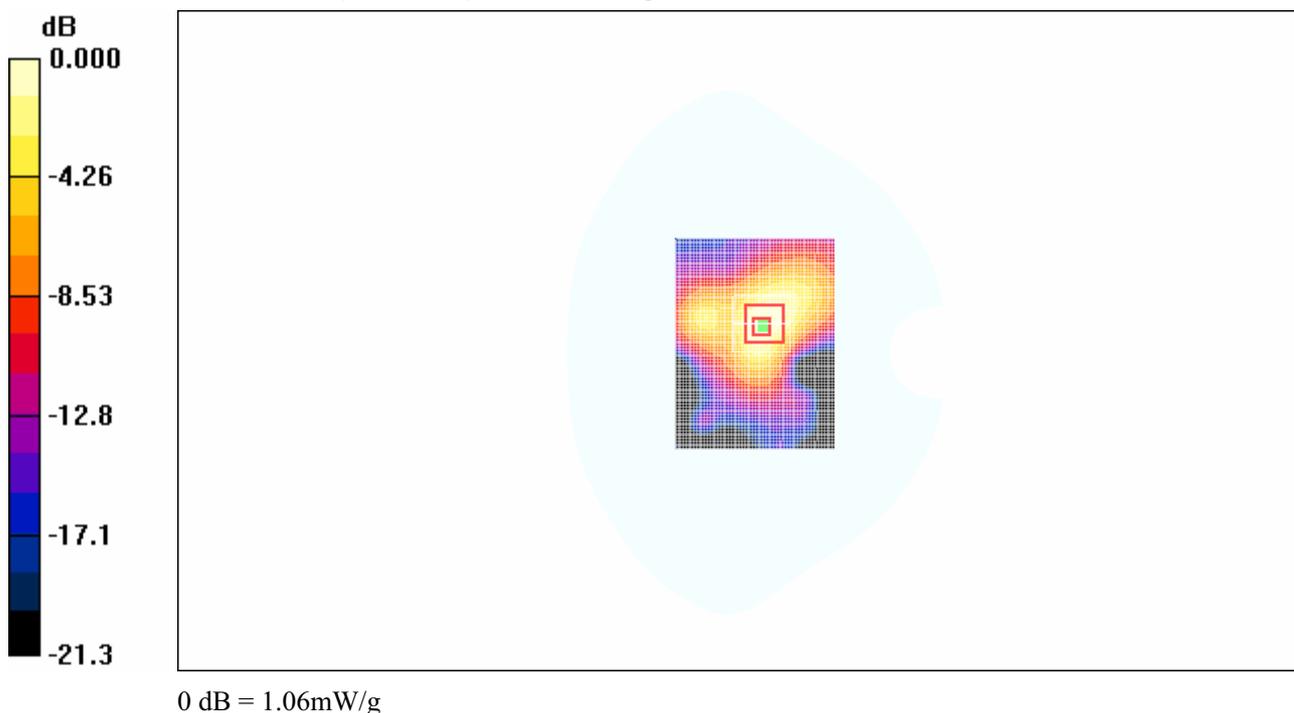
**Test Position 2/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 1.08 mW/g**Test Position 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

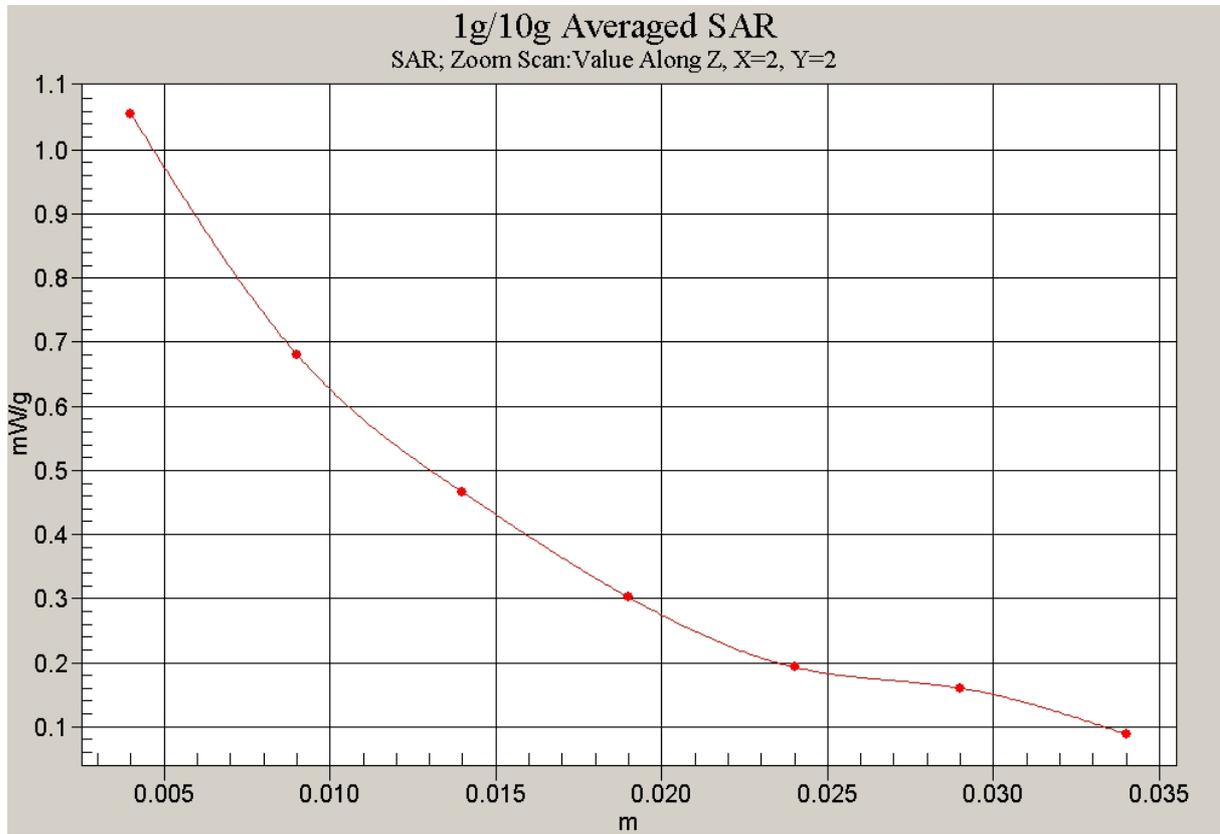
Reference Value = 21.0 V/m; Power Drift = -0.175 dB

Peak SAR (extrapolated) = 1.57 W/kg

**SAR(1 g) = 0.965 mW/g; SAR(10 g) = 0.561 mW/g**

Maximum value of SAR (measured) = 1.06 mW/g

**Fig. 103 CDMA1900 CH600 Test Position 2-antenna folded**



**Fig.104 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 2-antenna folded)**

**CDMA1900 Test Position 3 with IBM Laptop-antenna folded**

Date/Time: 2007-5-10 15:18:49

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 3/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.066 mW/g

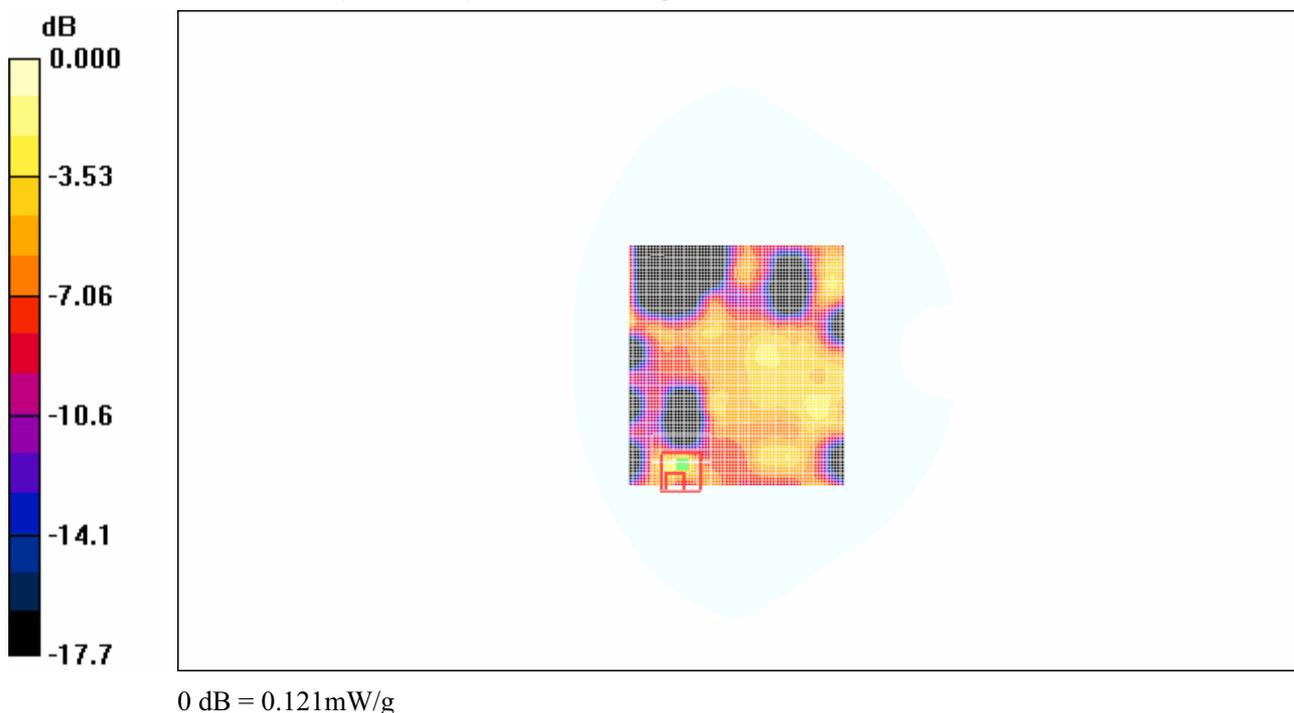
**Test Position 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

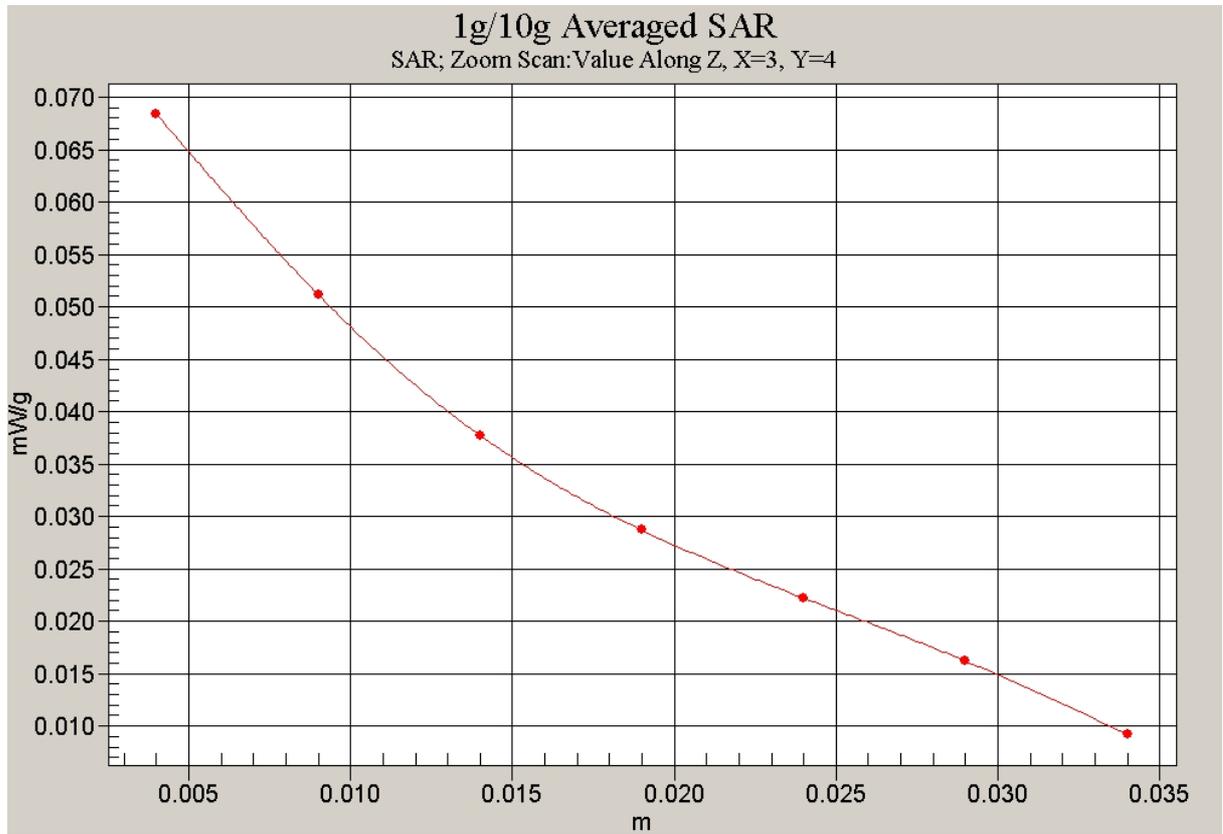
Reference Value = 5.14 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.257 W/kg

**SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.121 mW/g

**Fig. 105 CDMA1900 CH600 Test Position 3-antenna folded**



**Fig.106 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 3-antenna folded)**

**CDMA1900 Test Position 4 with IBM Laptop-antenna folded**

Date/Time: 2007-5-10 16:06:26

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

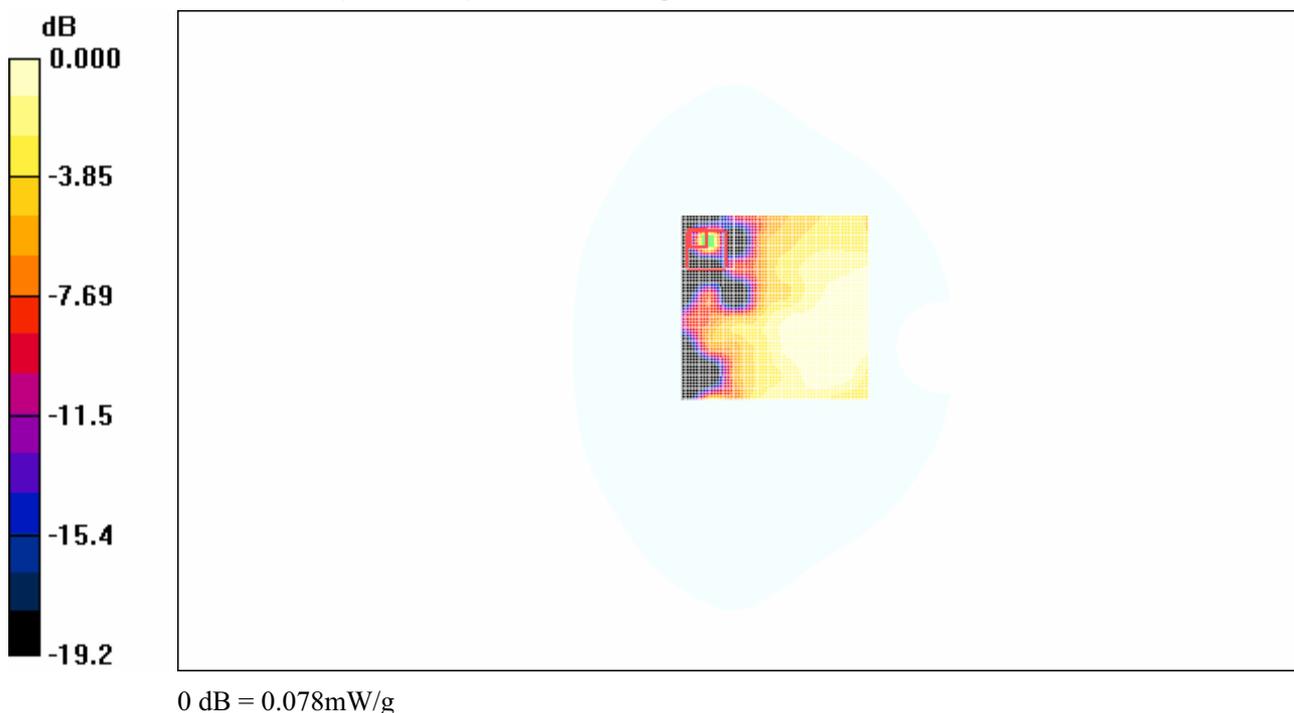
**Test Position 4/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.118 mW/g**Test Position 4/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

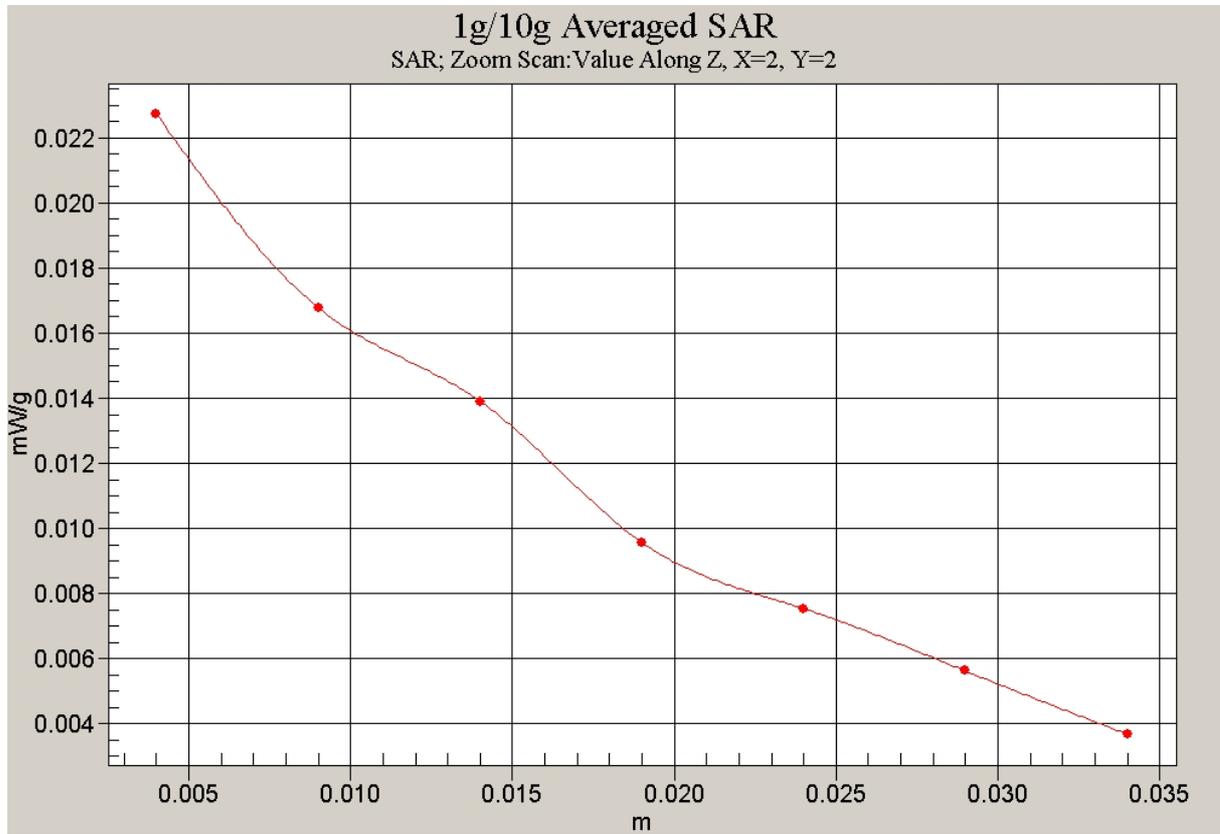
Reference Value = 5.19 V/m; Power Drift = -0.200 dB

Peak SAR (extrapolated) = 0.114 W/kg

**SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00633 mW/g**

Maximum value of SAR (measured) = 0.078 mW/g

**Fig. 107 CDMA1900 CH600 Test Position 4-antenna folded**



**Fig.108 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 4-antenna folded)**

**CDMA1900 Test Position 5 with IBM Laptop-antenna folded**

Date/Time: 2007-5-10 14:04:41

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

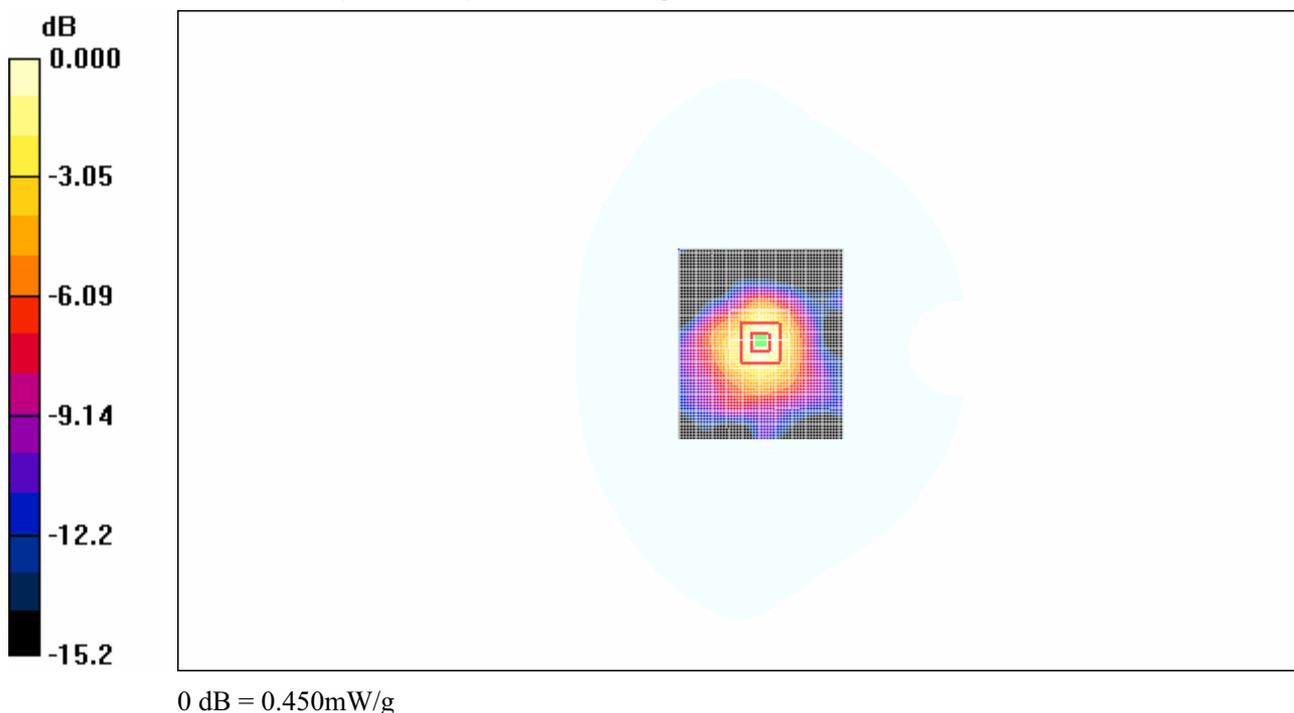
**Test Position 5/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.472 mW/g**Test Position 5/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

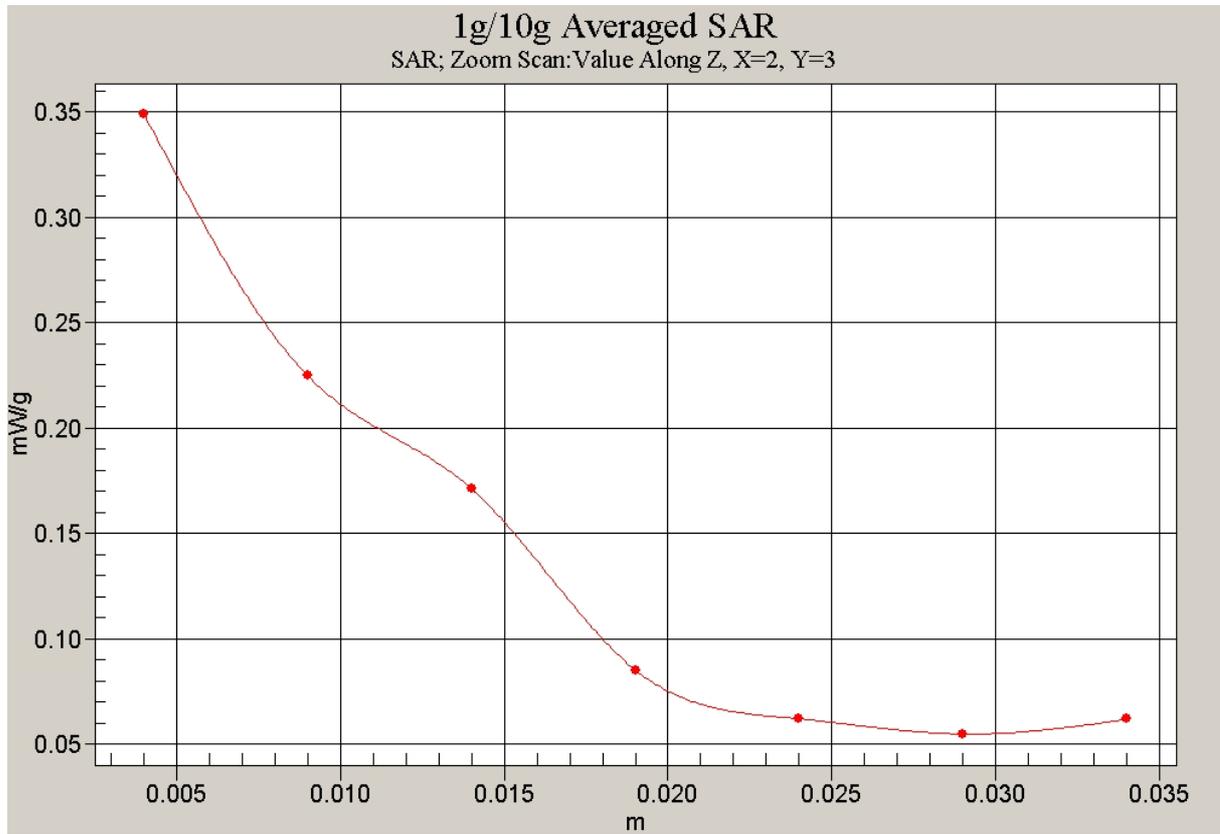
Reference Value = 17.1 V/m; Power Drift = -0.089 dB

Peak SAR (extrapolated) = 0.727 W/kg

**SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.240 mW/g**

Maximum value of SAR (measured) = 0.450 mW/g

**Fig. 109 CDMA1900 CH600 Test Position 5-antenna folded**



**Fig.110 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 5-antenna folded)**

**CDMA1900 Test Position 1 with IBM Laptop-antenna unfolded**

Date/Time: 2007-5-10 12:46:15

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

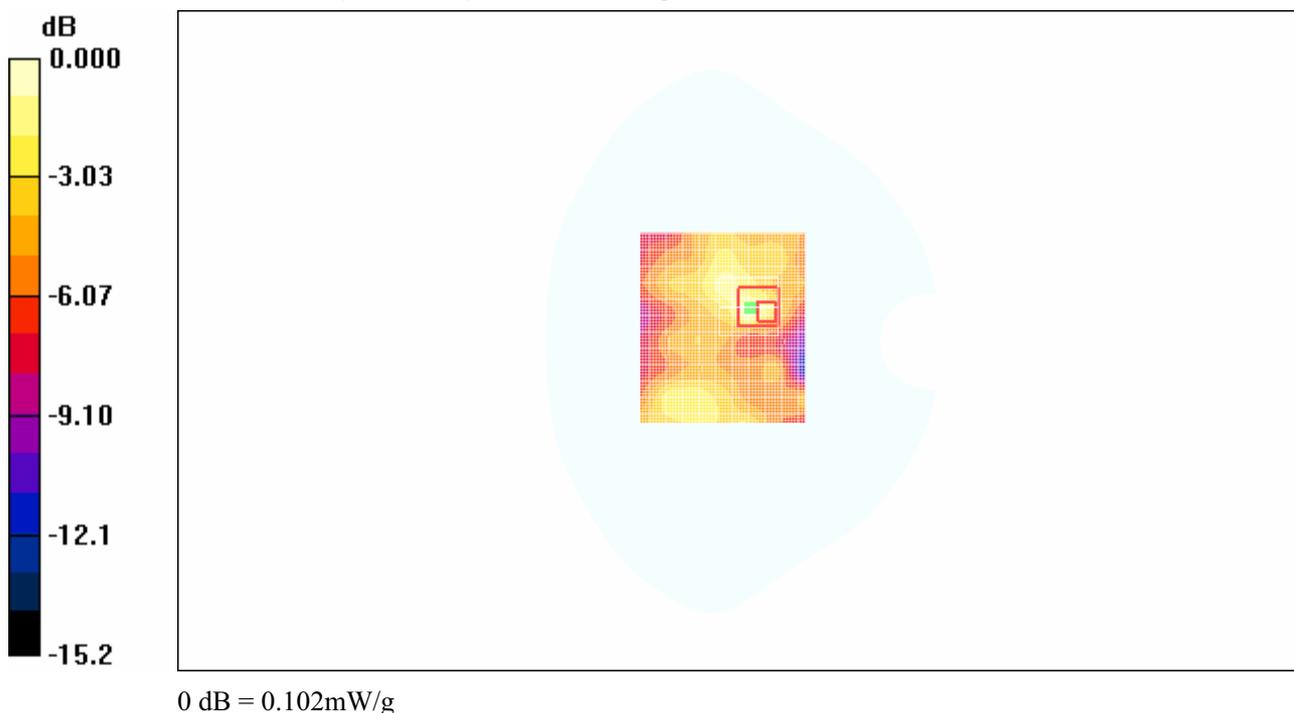
**Test Position 1/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.094 mW/g**Test Position 1/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

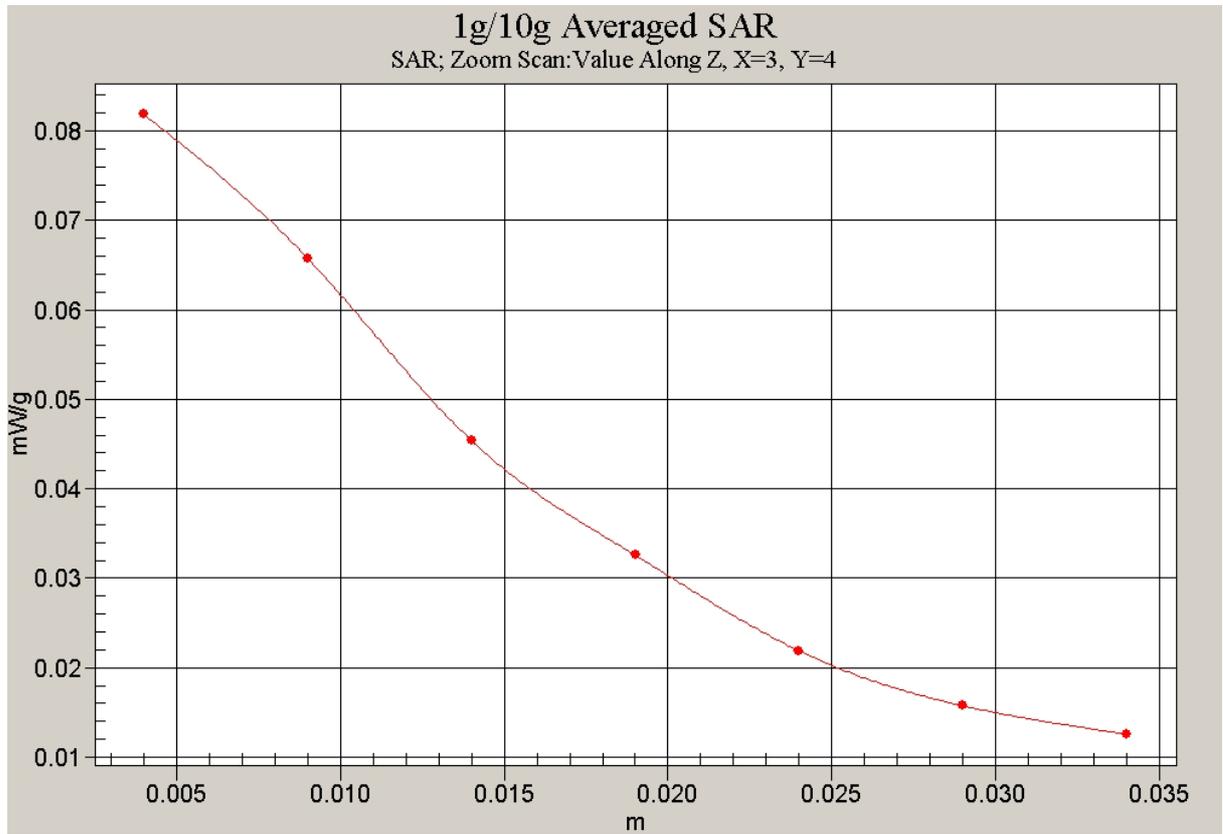
Reference Value = 3.88 V/m; Power Drift = -0.191 dB

Peak SAR (extrapolated) = 0.105 W/kg

**SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.035 mW/g**

Maximum value of SAR (measured) = 0.102 mW/g

**Fig. 111 CDMA1900 CH600 Test Position 1-antenna unfolded**



**Fig.112 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 1-antenna unfolded)**

**CDMA1900 Test Position 2 with IBM Laptop-antenna folded**

Date/Time: 2007-5-10 13:34:21

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

**Test Position 2/Area Scan (61x81x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.630 mW/g

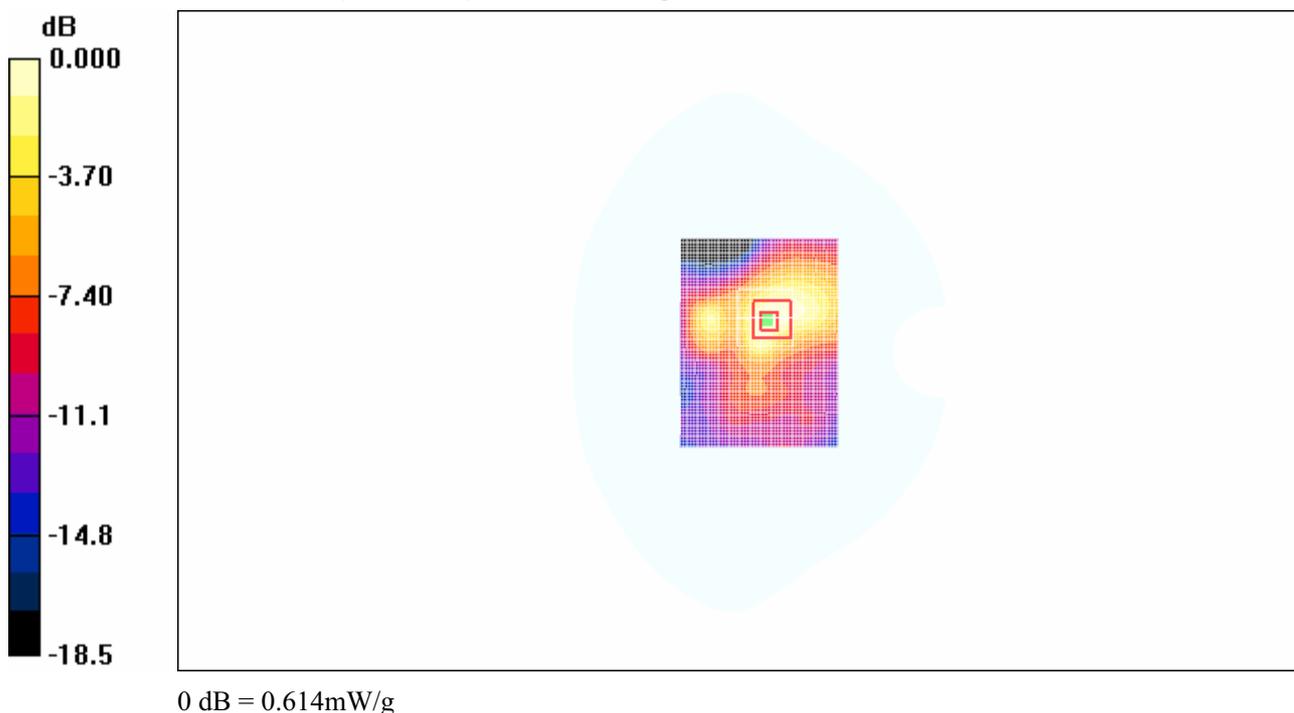
**Test Position 2/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

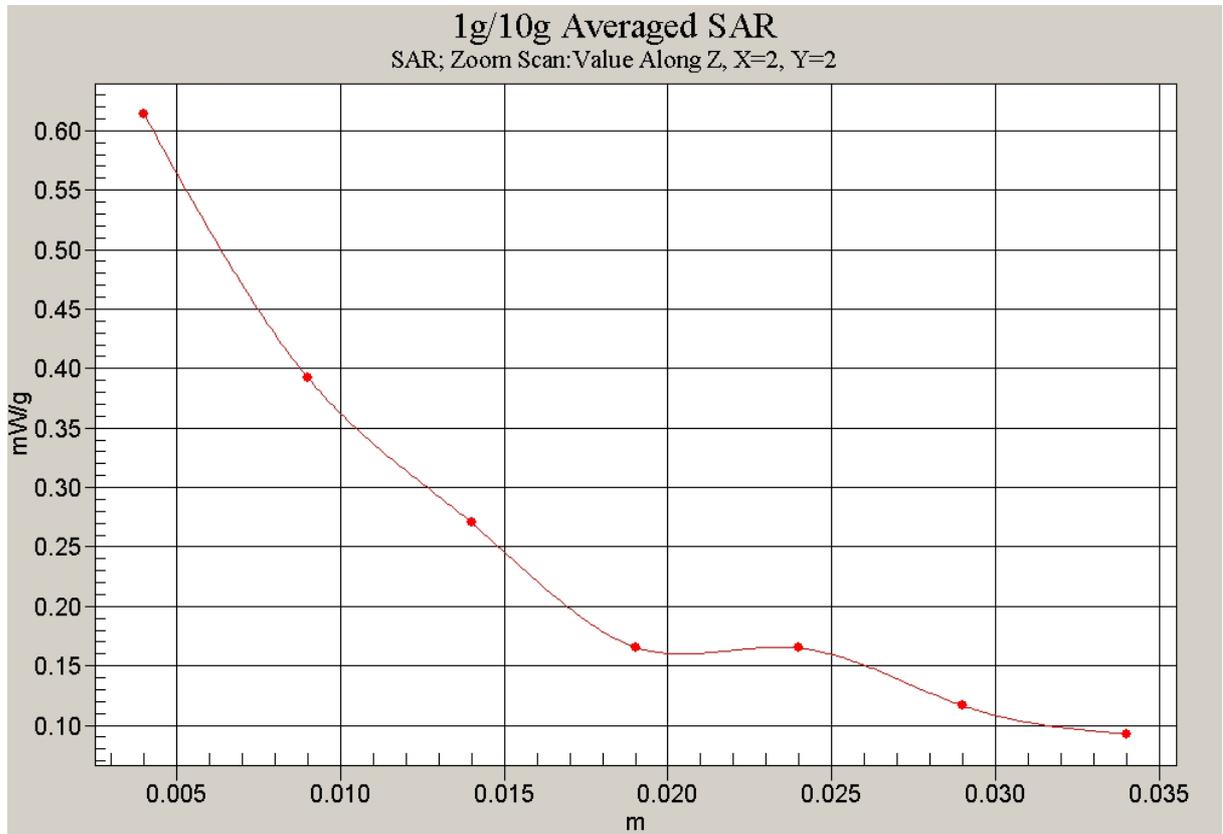
Reference Value = 14.3 V/m; Power Drift = 0.076 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.341 mW/g**

Maximum value of SAR (measured) = 0.614 mW/g

**Fig. 113 CDMA1900 CH600 Test Position 2-antenna unfolded**



**Fig.114 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 2-antenna unfolded)**

**CDMA1900 Test Position 3 with IBM Laptop-antenna unfolded**

Date/Time: 2007-5-10 14:46:45

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

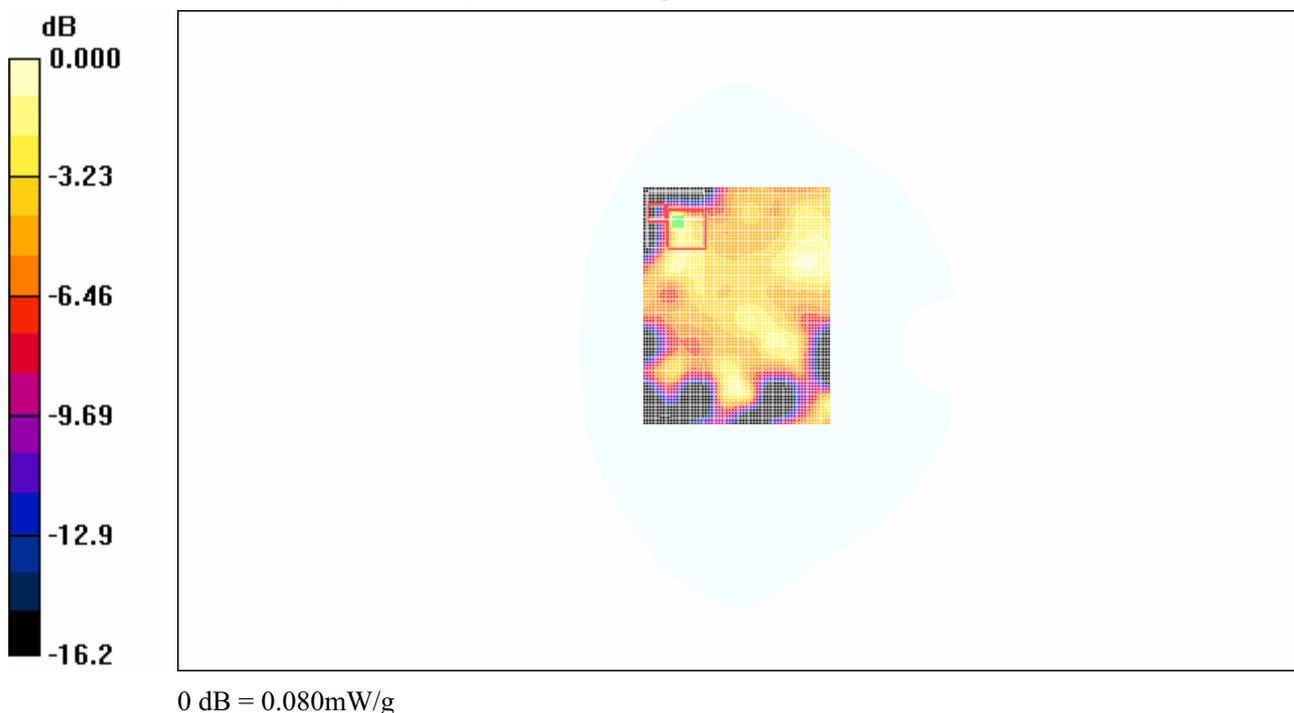
**Test Position 3/Area Scan (71x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.068 mW/g**Test Position 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

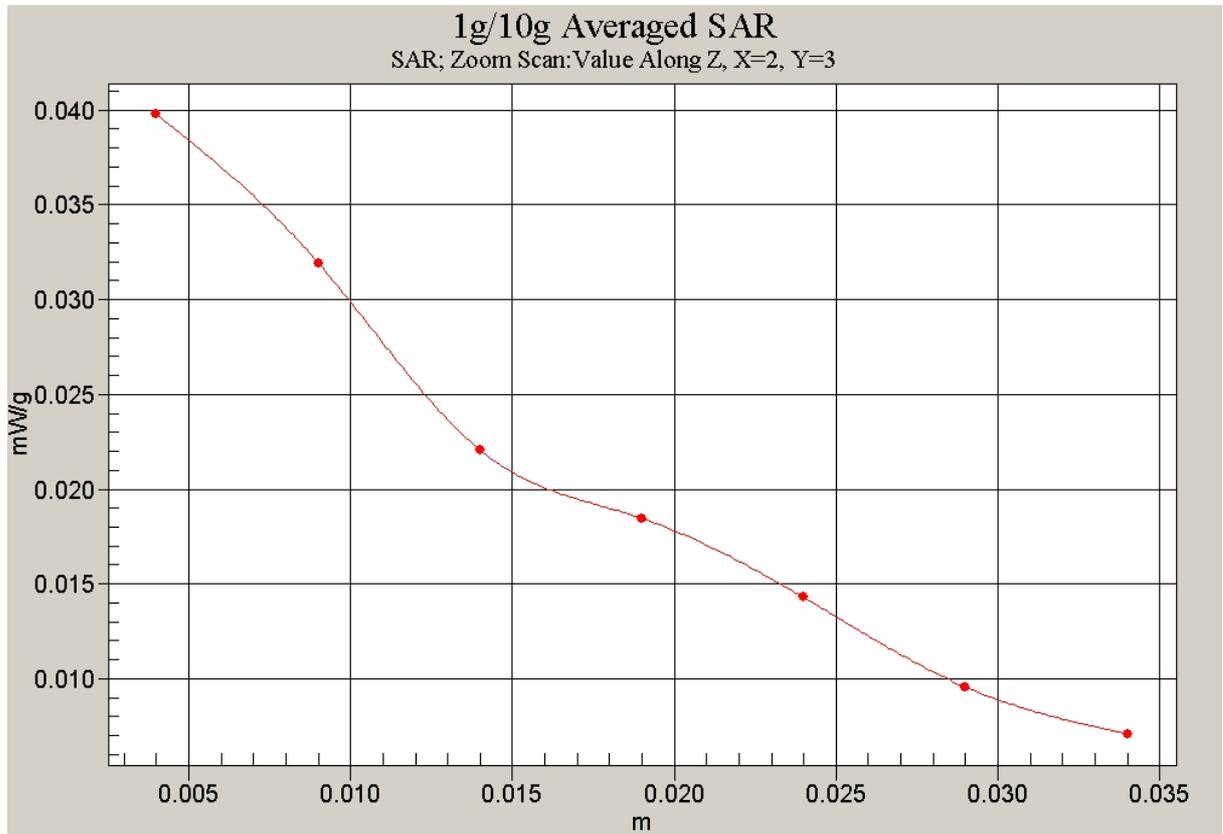
Reference Value = 4.09 V/m; Power Drift = -0.162 dB

Peak SAR (extrapolated) = 0.122 W/kg

**SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.013 mW/g**

Maximum value of SAR (measured) = 0.080 mW/g

**Fig. 115 CDMA1900 CH600 Test Position 3-antenna unfolded**



**Fig.116 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 3-antenna unfolded)**

**CDMA1900 Test Position 4 with IBM Laptop-antenna unfolded**

Date/Time: 2007-5-10 15:52:35

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

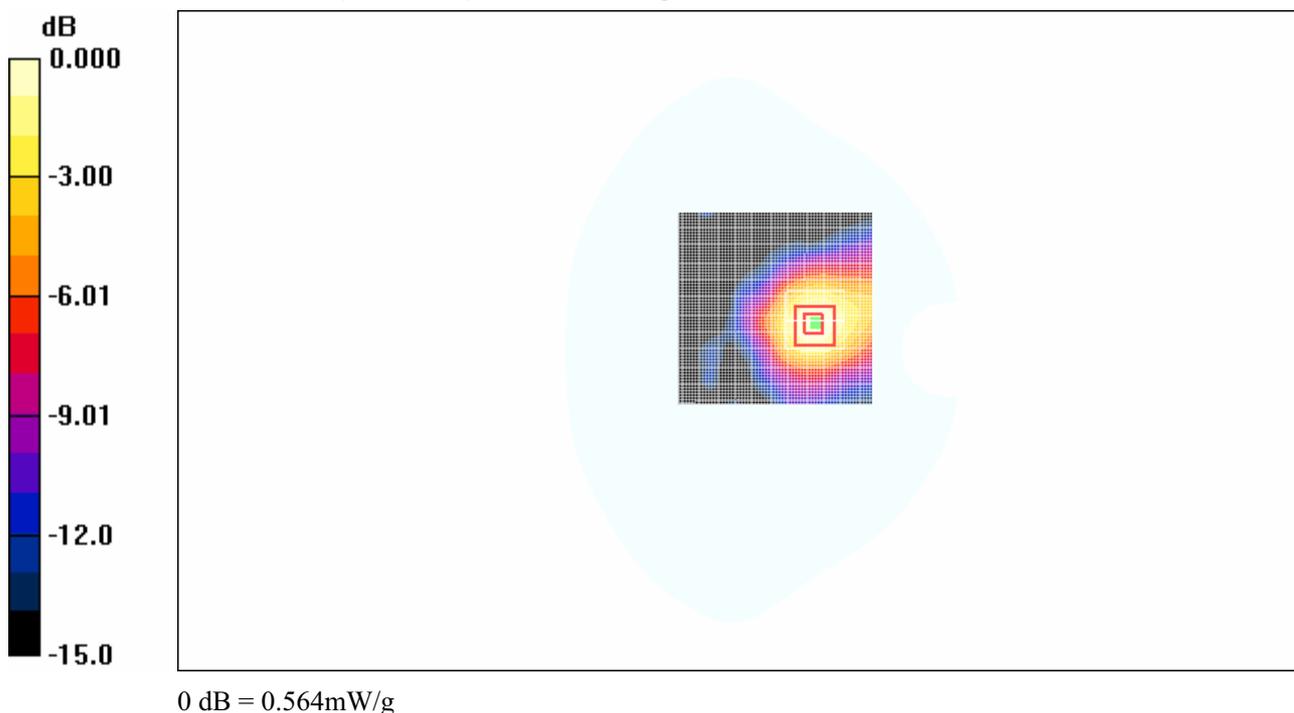
**Test Position 4/Area Scan (71x71x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.591 mW/g**Test Position 4/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

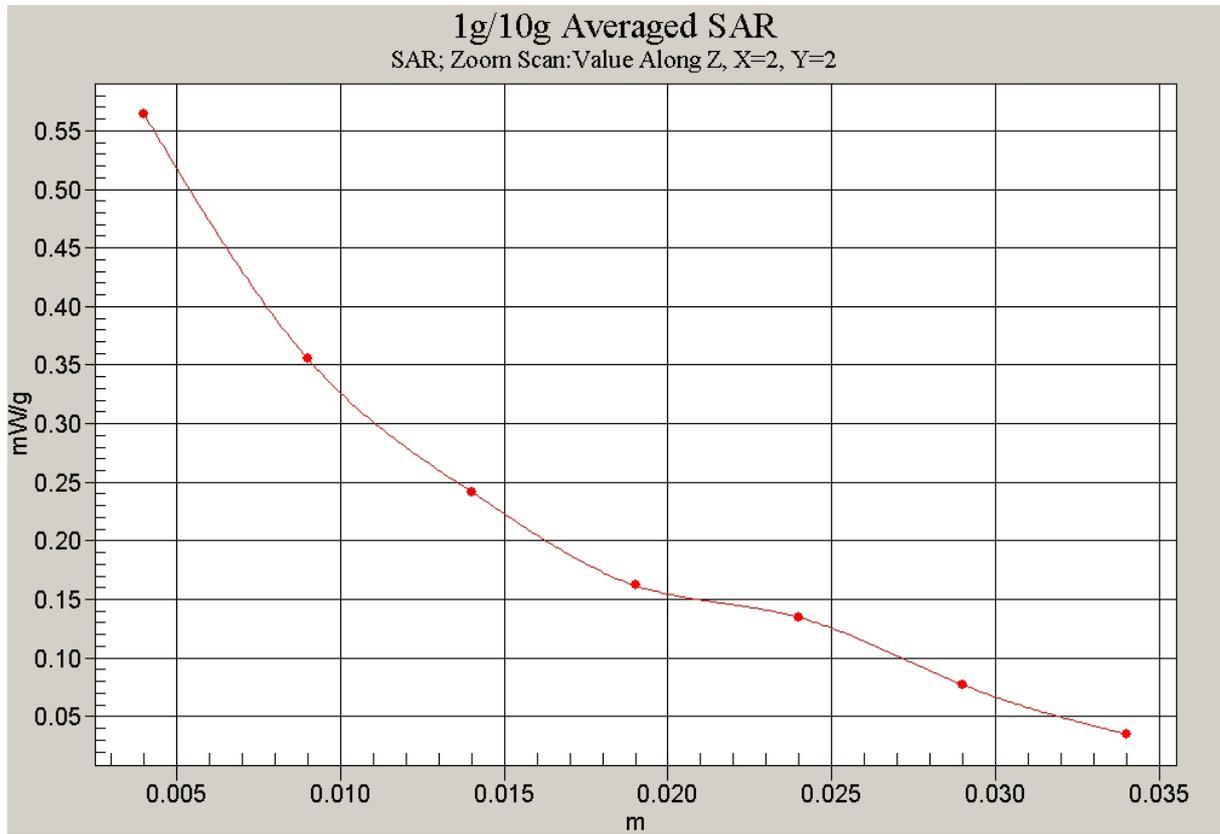
Reference Value = 8.06 V/m; Power Drift = -0.187 dB

Peak SAR (extrapolated) = 0.919 W/kg

**SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.318 mW/g**

Maximum value of SAR (measured) = 0.564 mW/g

**Fig. 117 CDMA1900 CH600 Test Position 4-antenna unfolded**



**Fig.118 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 4-antenna unfolded)**

**CDMA1900 Test Position 5 with IBM Laptop-antenna unfolded**

Date/Time: 2007-5-10 13:51:55

Electronics: DAE3 Sn536

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.5°C

Communication System: CDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

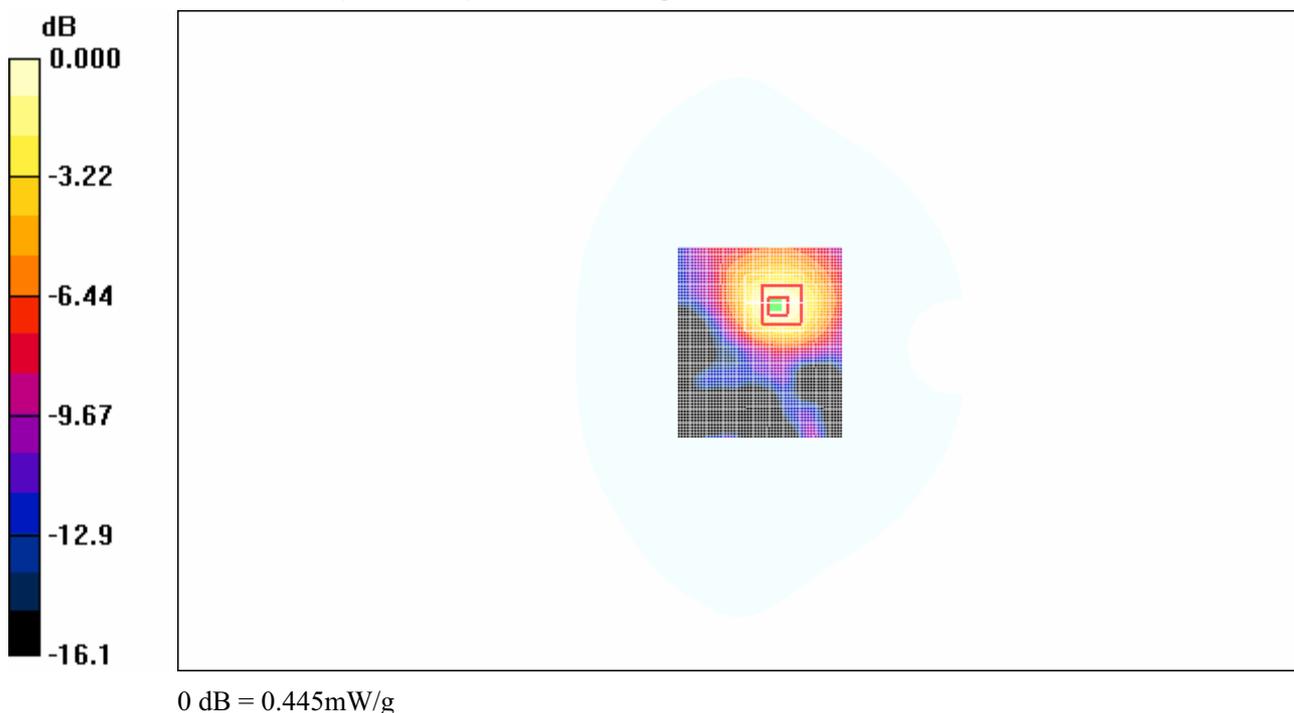
**Test Position 5/Area Scan (61x71x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.463 mW/g**Test Position 5/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

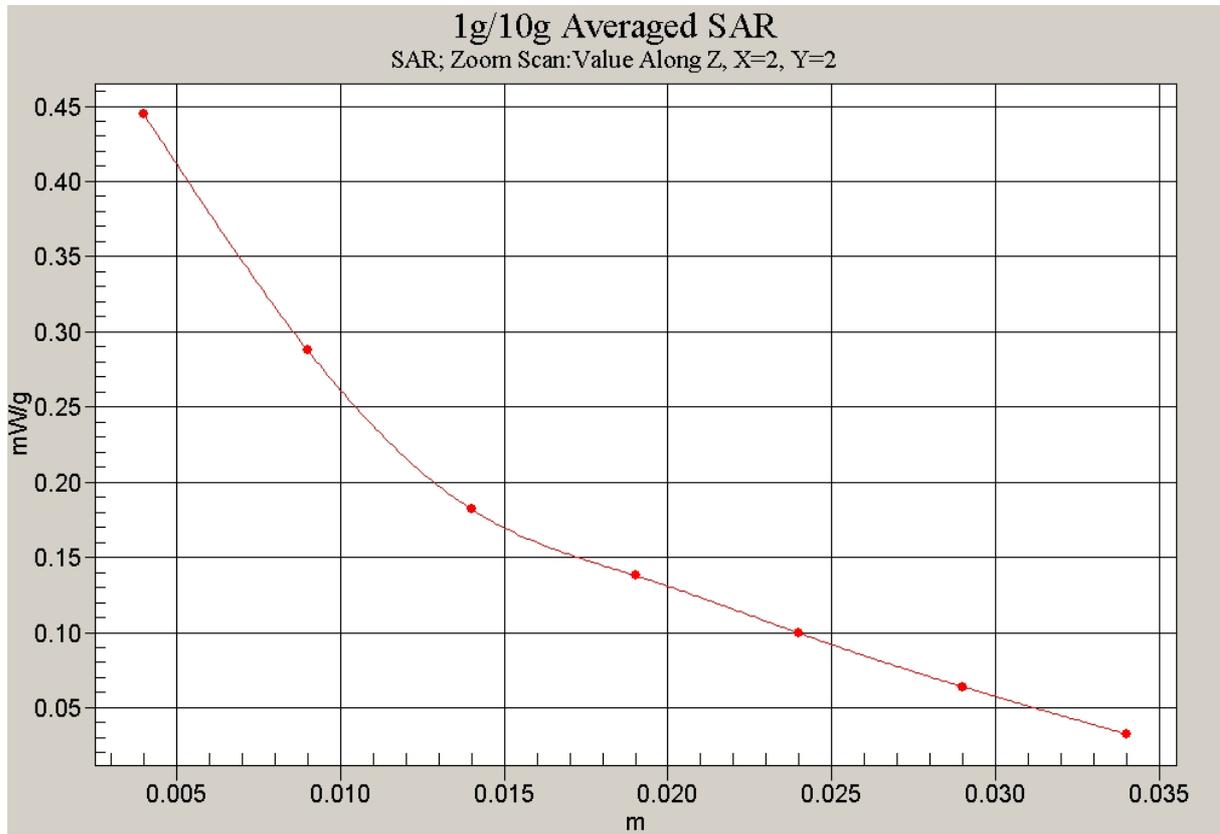
Reference Value = 7.21 V/m; Power Drift = 0.114 dB

Peak SAR (extrapolated) = 0.682 W/kg

**SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.253 mW/g**

Maximum value of SAR (measured) = 0.445 mW/g

**Fig. 119 CDMA1900 CH600 Test Position 5-antenna unfolded**



**Fig.120 Z-Scan at power reference point  
(CDMA1900 CH600 Test Position 5-antenna unfolded)**

**ANNEX D: SYSTEM VALIDATION RESULTS****835MHzDAE589Probe1736**

Date/Time: 2007-5-11 7:11:36

Electronics: DAE3 Sn536

Medium: 835 Head

Medium parameters used :  $f = 835$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.3°C      Liquid Temperature: 22.3°C

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

Probe: ET3DV6 - SN1736 ConvF(6.51, 6.51, 6.51)

**835MHz/Area Scan (101x101x1):** Measurement grid: dx=10mm, dy=10mm

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

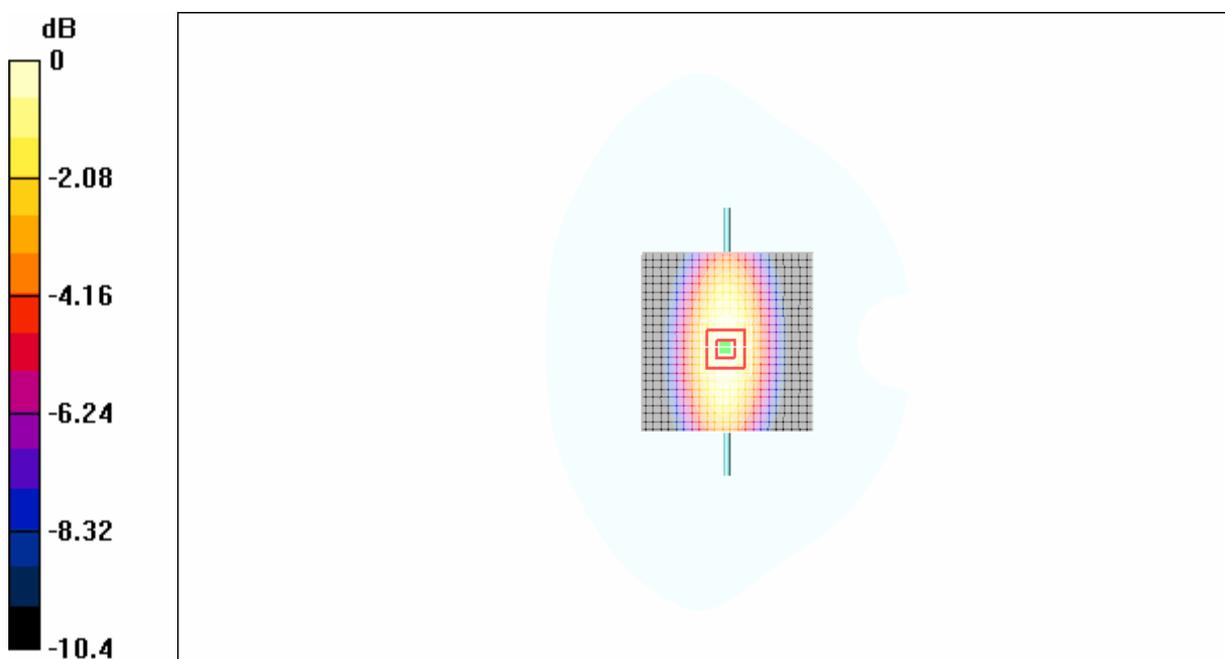
**835MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.8 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 3.67 W/kg

**SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.62 mW/g**

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



0 dB = 2.69mW/g

**Fig.121 validation 835MHz 250mW**

**1900MHzDAE536Probe1736**

Date/Time: 2007-5-10 7:09:32

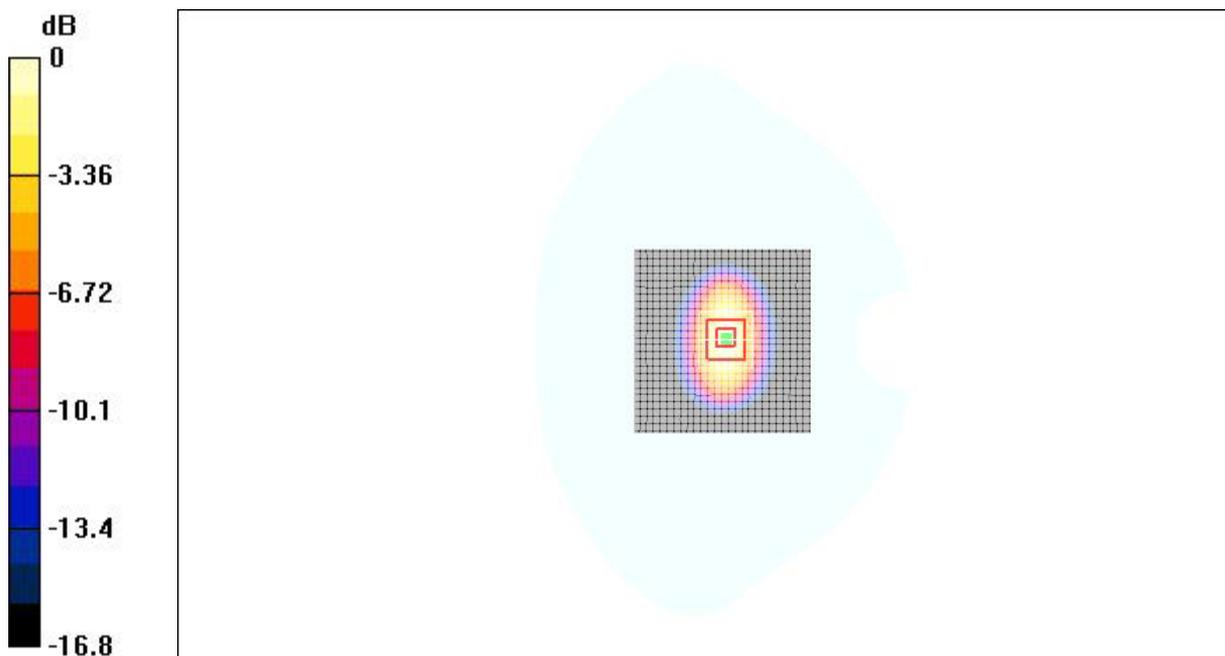
Electronics: DAE3 Sn536

Medium: 1900 Head

Medium parameters used:  $f = 1900\text{MHz}$ ;  $\sigma = 1.45 \text{ mho/m}$ ;  $\epsilon_r = 39.2$ ;  $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature:  $23.3^\circ\text{C}$       Liquid Temperature:  $22.3^\circ\text{C}$ 

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

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

**System Validation/Area Scan (101x101x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (interpolated) =  $11.2 \text{ mW/g}$ **System Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  
 $dy=5\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $92.1 \text{ V/m}$ ; Power Drift =  $0.1 \text{ dB}$ Peak SAR (extrapolated) =  $16.9 \text{ W/kg}$ **SAR(1 g) =  $9.91 \text{ mW/g}$ ; SAR(10 g) =  $5.27 \text{ mW/g}$** Maximum value of SAR (measured) =  $11.3 \text{ mW/g}$ 0 dB =  $11.3\text{mW/g}$ **Fig.122 validation 1900MHz 250mW**

**ANNEX E: PROBE CALIBRATION CERTIFICATE**

**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Federal Office of metrology and Accreditation  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **TMC China**

Certificate No: **ET3DV6-1736\_Dec06**

**CALIBRATION CERTIFICATE**

Object	<b>ET3DV6-SN: 1736</b>
Calibration procedure(s)	<b>QA CAL-01.v5 Calibration procedure for dosimetric E-field probes</b>
Calibration date:	<b>December 1, 2006</b>
Condition of the calibrated item	<b>In Tolerance</b>

This calibration certify documents the traceability to national standards, which realize the physical units of measurements(SI).  
All calibrations have been conducted at an environment temperature (22±3)<sup>o</sup>C and humidity<70%

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Data (Calibrated by, Certification NO.)	Scheduled Calibration
Power meter E4419B	GB341293874	22-May-06 (METAS, NO. 251-00466)	May-07
Power sensor E4412A	MY41495277	22-May-06 (METAS, NO. 251-00466)	May-07
Power sensor E4412A	MY41498087	22-May-06 (METAS, NO. 251-00466)	May-07
Reference 20 dB Attenuator	SN:S5086 (20b)	22-May-06 (METAS, NO. 251-00467)	May-07
Reference Probe ES3DV2	SN:S5086 (20b)	22-May-06 (METAS, NO. 251-00467)	May-07
DAE4	SN:3013	13-Jan-06 (SPEAG, NO. ES3-3013_Jan06)	Jan-07
Reference Probe ES3DV2	SN: 907	11-Jun-06 (SPEAG, NO.DAE4-907_Jun06)	Jun-07
Secondary Standards	ID#	Check Data (in house)	Scheduled Calibration
RF generator HP8648C	US3642U01700	4-Dec-05(SPEAG, in house check Dec-03)	In house check: Dec-09
Network Analyzer HP 8753E	US37390585	10-Nov-05(SPEAG, NO. DAE4-901_Nov-04)	In house check: Nov-09

	Name	Function	Signature
Calibrated by:	Nico Vetterli	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Director	

Issued: December 1, 2006

This calibration certificate shall not be reported except in full without written approval of the laboratory.

**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Federal Office of Metrology and Accreditation  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

**Glossary:**

TSL	tissue simulating liquid
NORM <sub>x,y,z</sub>	sensitivity in free space
ConF	sensitivity in TSL / NORM <sub>x,y,z</sub>
DCP	diode compression point
Polarization $\varphi$	$\varphi$ rotation around probe axis
Polarization $\vartheta$	$\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

**Calibration is Performed According to the Following Standards:**

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- GENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

**Methods Applied and Interpretation of Parameters:**

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not effect the E<sup>2</sup>-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* *frequency\_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* *ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

ET3DV6 SN: 1736

December 1, 2006

# Probe ET3DV6

**SN: 1736**

Manufactured: September 27, 2002

Last calibrated: November 25, 2005

Recalibrated: December 1, 2006

Calibrated for DASYS System

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**DASY - Parameters of Probe: ET3DV6 SN:1736**

**Sensitivity in Free Space<sup>A</sup>**

**Diode Compression<sup>B</sup>**

NormX	1.97 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP X	93 mV
NormY	1.75 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Y	93 mV
NormZ	1.97 ± 10.1%	$\mu\text{V}/(\text{V}/\text{m})^2$	DCP Z	93 mV

**Sensitivity in Tissue Simulating Liquid (Conversion Factors)**

Please see Page 8.

**Boundary Effect**

**TSL                    900 MHz    Typical SAR gradient: 5 % per mm**

Sensor Center to Phantom Surface Distance		<b>3.7 mm</b>	<b>4.7 mm</b>
SAR <sub>be</sub> [%]	Without Correction Algorithm	9.6	5.0
SAR <sub>be</sub> [%]	With Correction Algorithm	0.1	0.3

**TSL                    1810 MHz    Typical SAR gradient: 10 % per mm**

Sensor Center to Phantom Surface Distance		<b>3.7 mm</b>	<b>4.7 mm</b>
SAR <sub>be</sub> [%]	Without Correction Algorithm	13.2	8.8
SAR <sub>be</sub> [%]	With Correction Algorithm	0.6	0.1

**Sensor Offset**

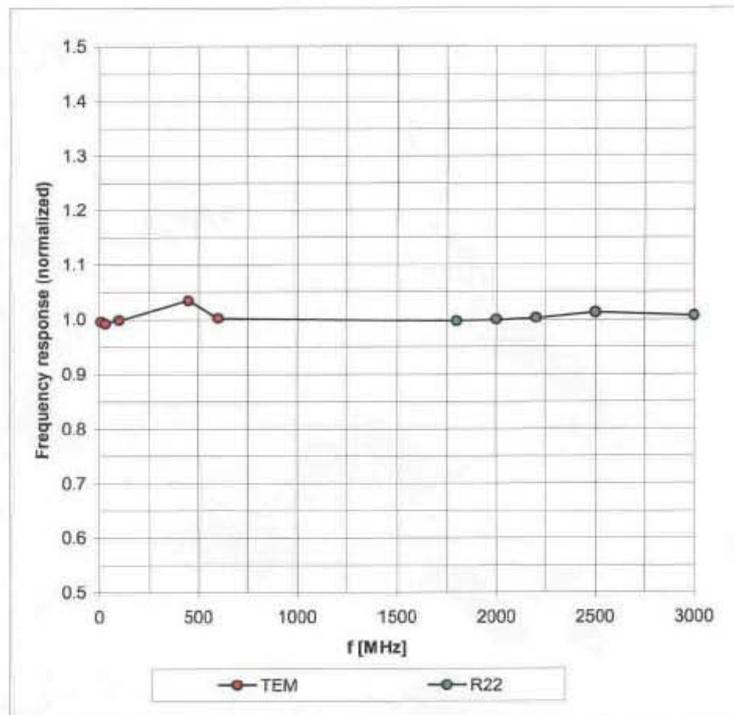
Probe Tip to Sensor Center                    **2.7 mm**

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### Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)

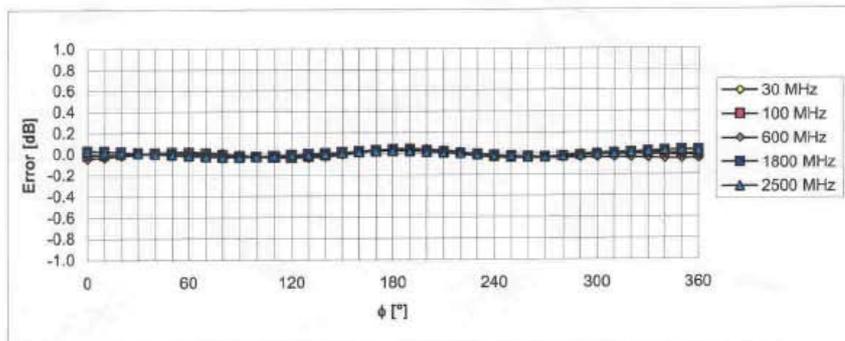
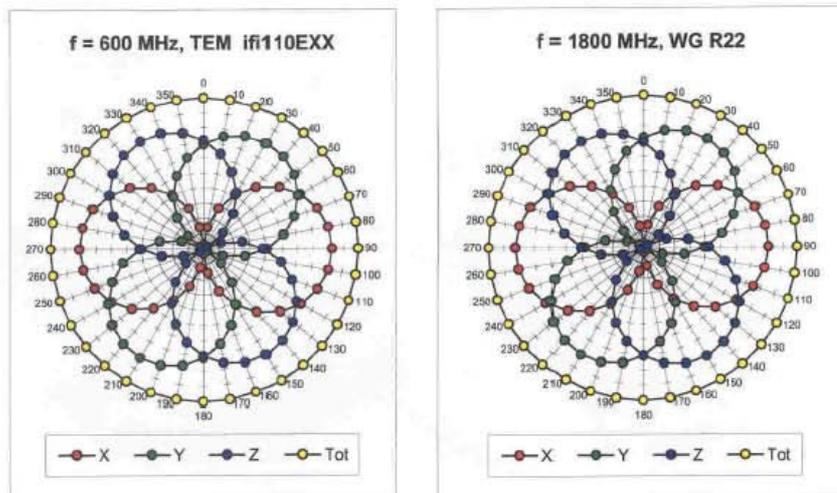


Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

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### Receiving Pattern ( $\phi$ ), $\vartheta = 0^\circ$

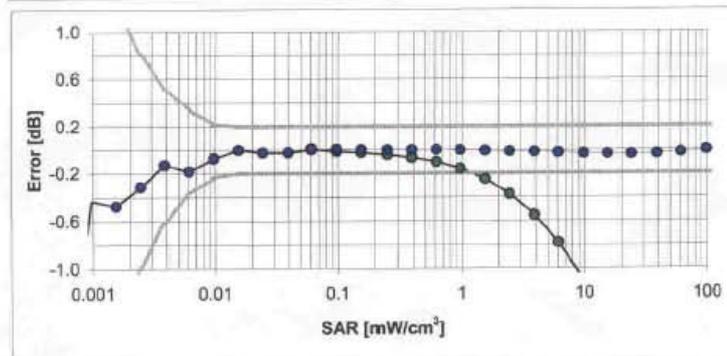
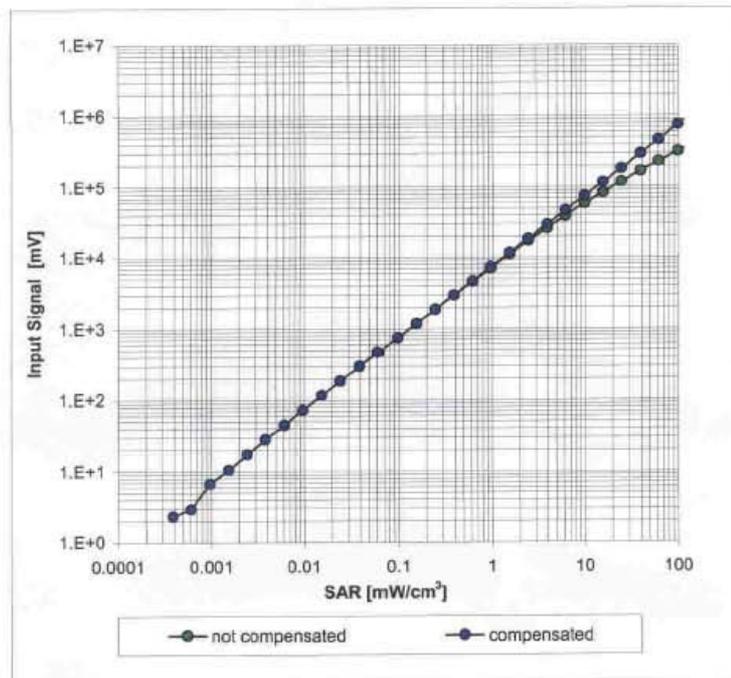


Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  (k=2)

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### Dynamic Range $f(SAR_{head})$ (Waveguide R22, $f = 1800$ MHz)

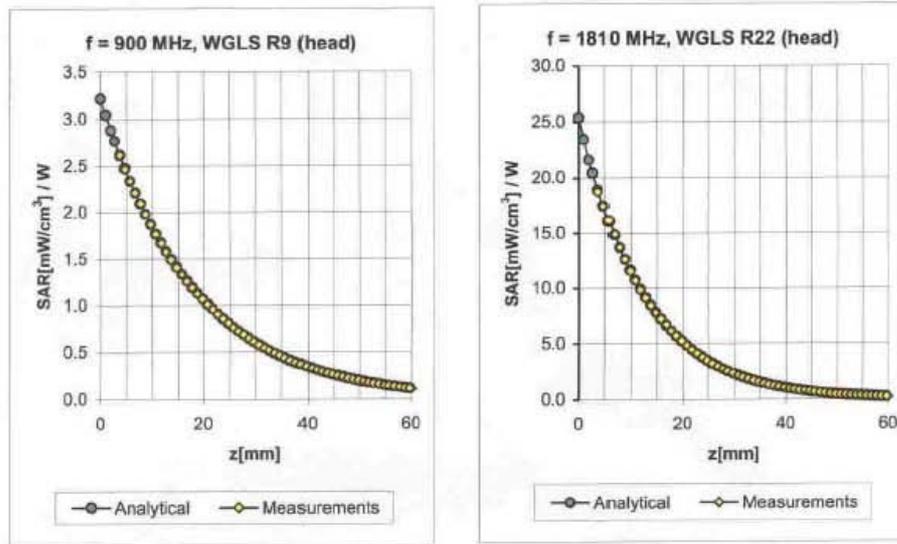


Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

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### Conversion Factor Assessment



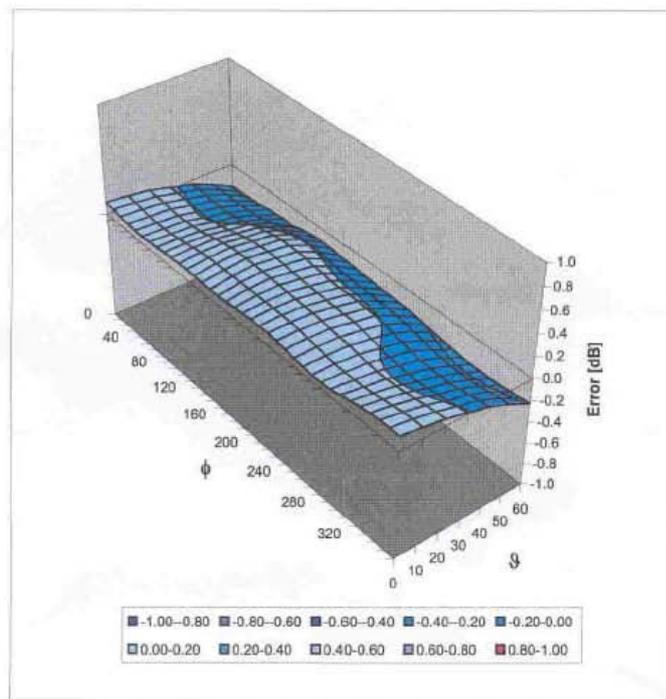
f [MHz]	Validity [MHz] <sup>c</sup>	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.56	1.85	6.51 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.57	2.47	5.40 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.62	2.29	4.67 ± 11.8% (k=2)
450	± 50 / ± 100	Body	56.7 ± 5%	0.94 ± 5%	0.12	1.61	7.74 ± 13.3% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.47	2.15	6.45 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.53	2.78	4.88 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.65	2.11	4.35 ± 11.8% (k=2)

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### Deviation from Isotropy in HSL

Error ( $\phi$ ,  $\theta$ ),  $f = 900$  MHz



Uncertainty of Spherical Isotropy Assessment:  $\pm 2.6\%$  ( $k=2$ )