

**Fig. 88 Z-Scan at power reference point (850MHz CH190)**

**850 Right Cheek Low**

Date/Time: 2008-6-13 18:41:35

Electronics: DAE4 Sn777

Medium: Head GSM850

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.897$  mho/m;  $\epsilon_r = 44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 Frequency: 824.2 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3142 ConvF(5.97, 5.97, 5.97)

**Cheek Low/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

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

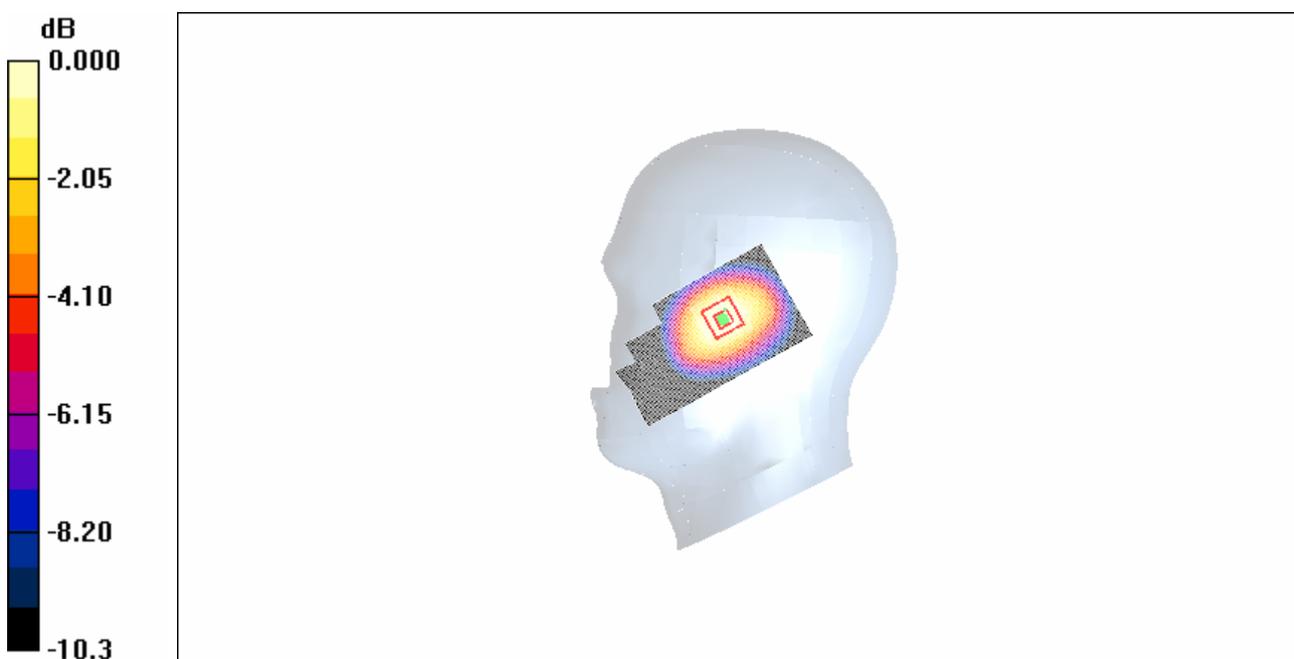
**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.7 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 1.29 W/kg

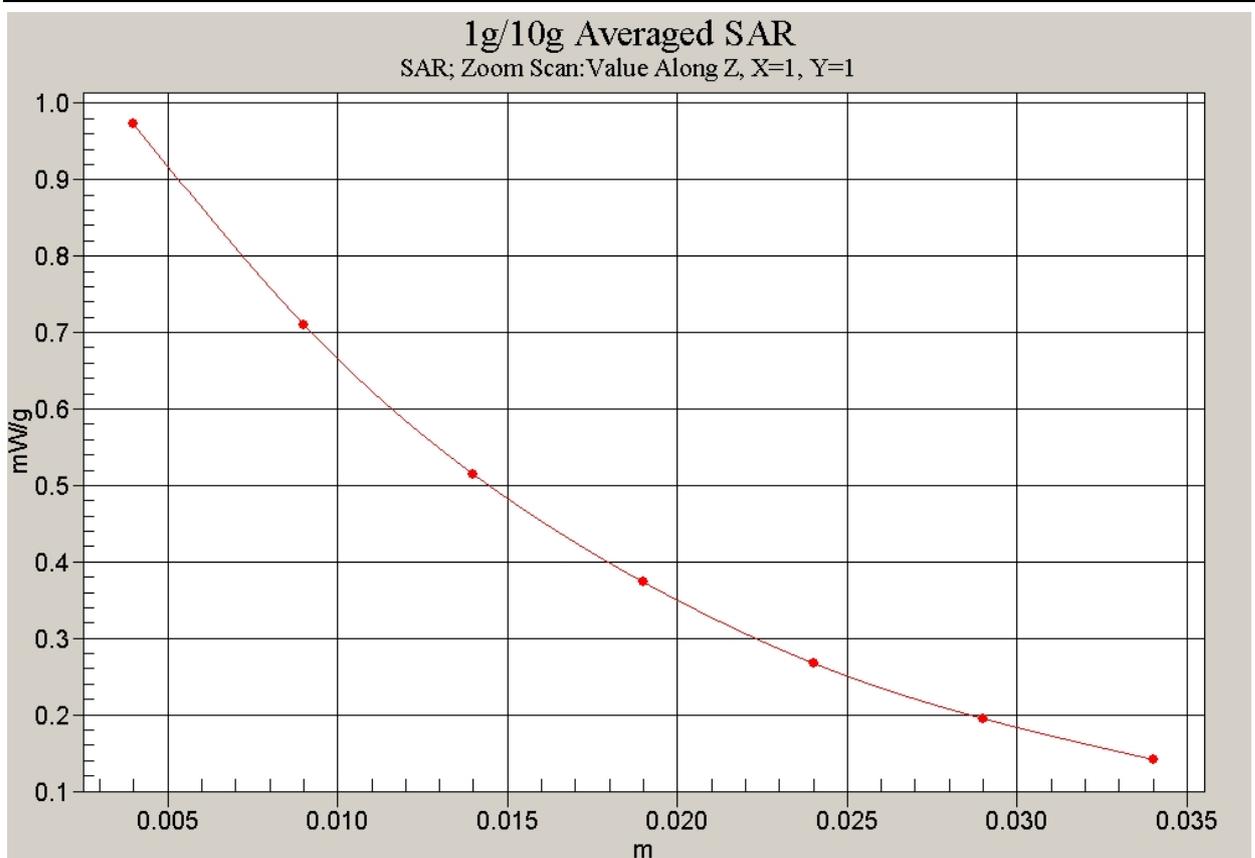
**SAR(1 g) = 0.952 mW/g; SAR(10 g) = 0.650 mW/g**

Maximum value of SAR (measured) = 0.972 mW/g



0 dB = 0.972mW/g

**Fig. 89 Right Hand Touch Cheek 850MHz CH128**



**Fig. 90 Z-Scan at power reference point (850MHz CH128)**

**850 Right Tilt High**

Date/Time: 2008-6-13 19:12:22

Electronics: DAE4 Sn777

Medium: Head GSM850

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 43.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 Frequency: 848.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3142 ConvF(5.97, 5.97, 5.97)

**Tilt High/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.380 mW/g

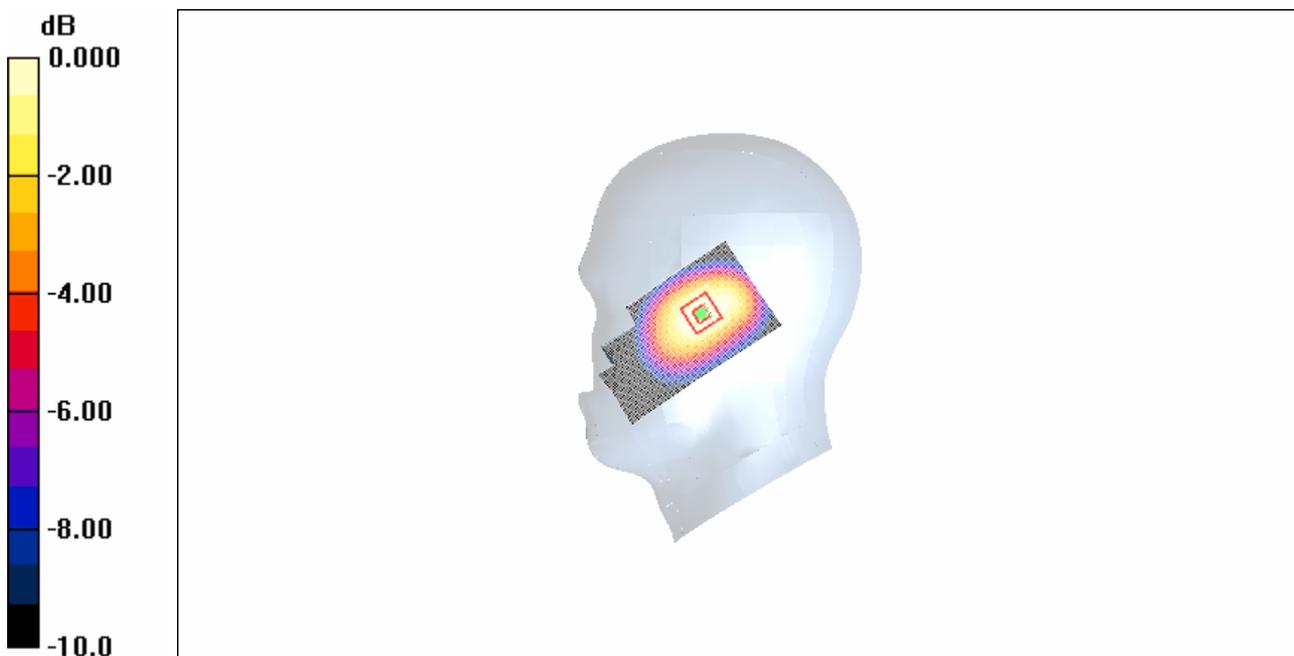
**Tilt High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 0.459 W/kg

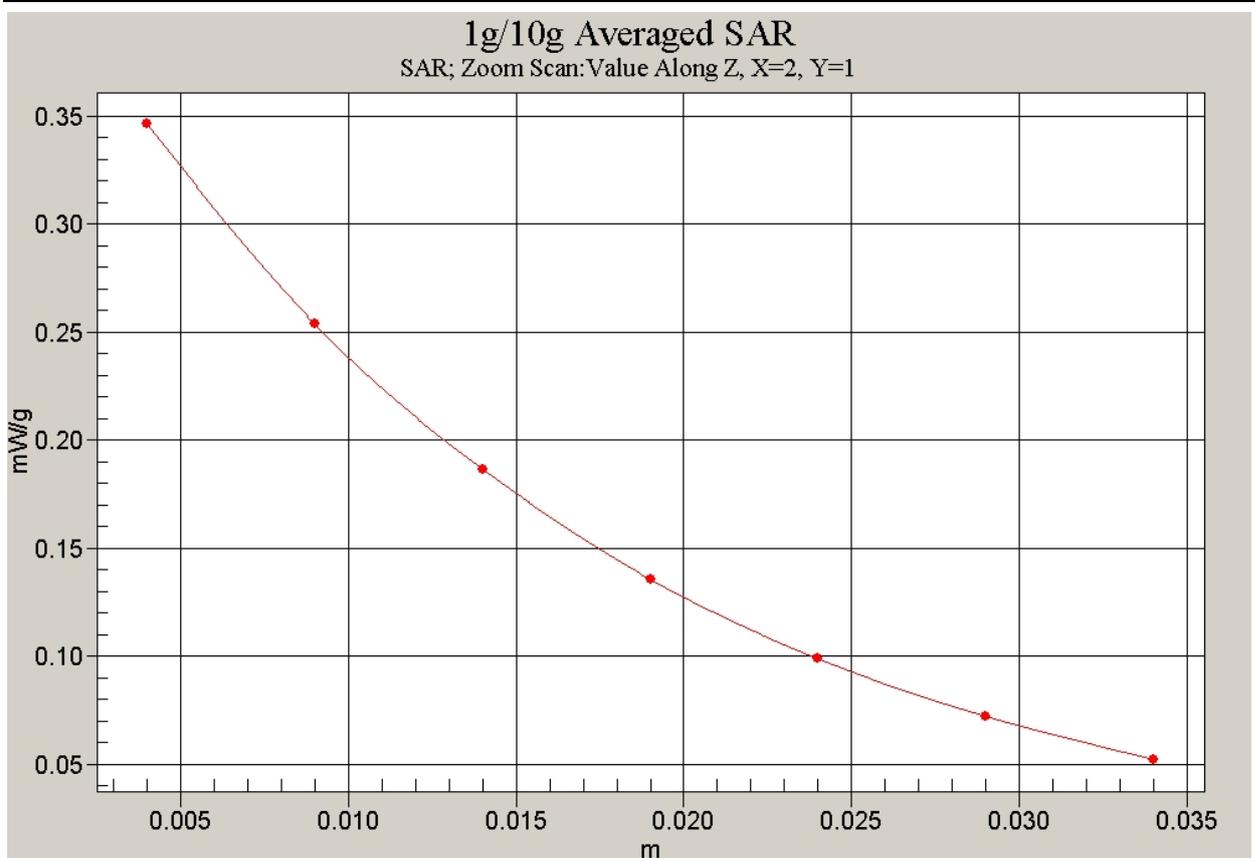
**SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.236 mW/g**

Maximum value of SAR (measured) = 0.346 mW/g



0 dB = 0.346mW/g

Fig. 91 Right Hand Tilt 15°850MHz CH251



**Fig. 92 Z-Scan at power reference point (850MHz CH251)**

**850 Right Tilt Middle**

Date/Time: 2008-6-13 19:02:09

Electronics: DAE4 Sn777

Medium: Head GSM850

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.909$  mho/m;  $\epsilon_r = 43.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 Frequency: 836.6 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3142 ConvF(5.97, 5.97, 5.97)

**Tilt Middle/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

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

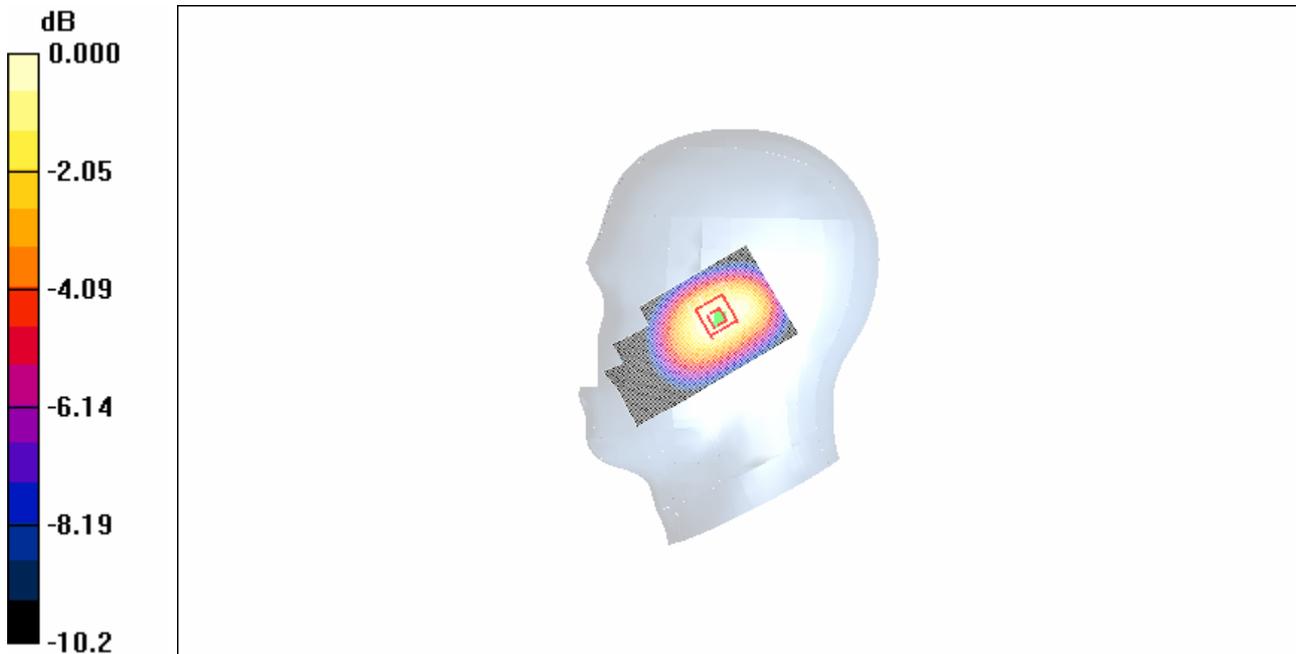
**Tilt Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

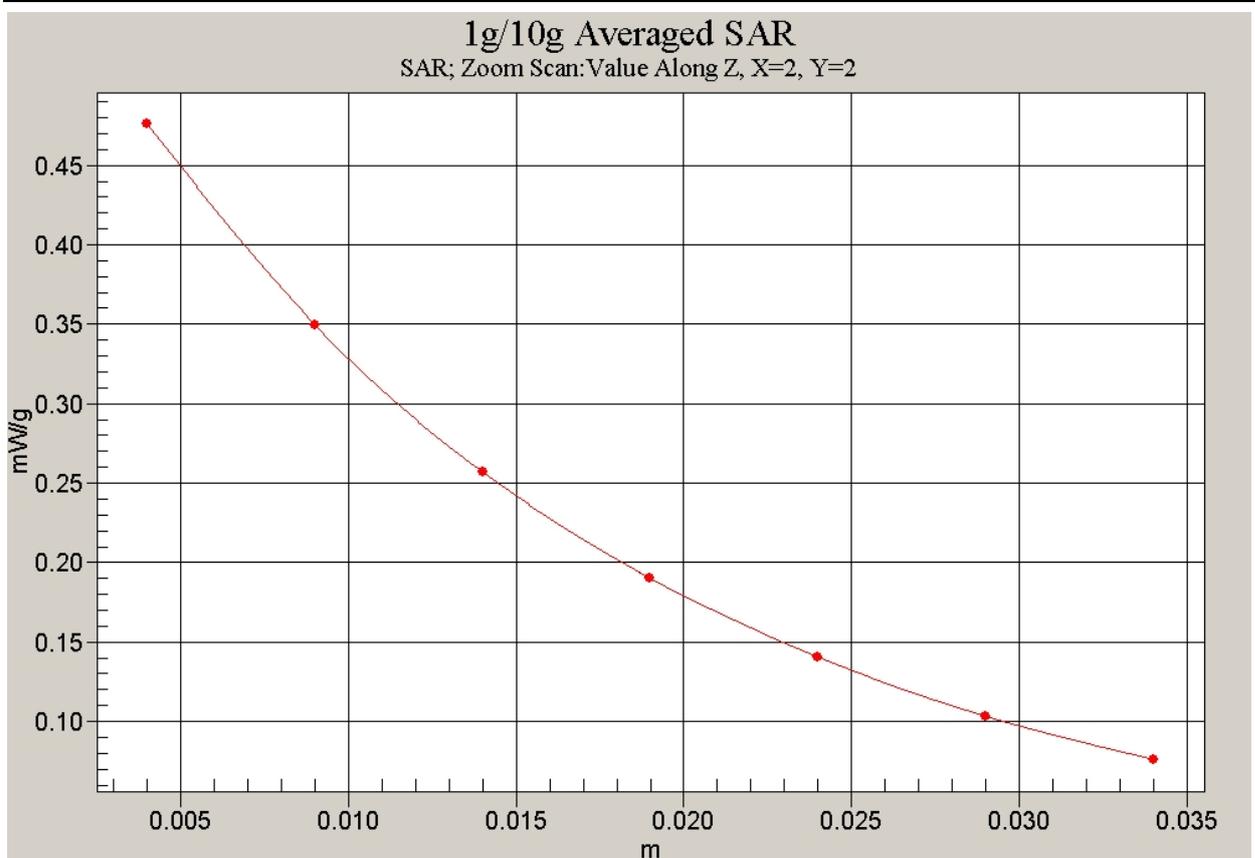
Reference Value = 20.6 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 0.628 W/kg

**SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.322 mW/g**

Maximum value of SAR (measured) = 0.476 mW/g

**Fig. 93 Right Hand Tilt 15°850MHz CH190**



**Fig. 94 Z-Scan at power reference point (850MHz CH190)**

**850 Right Tilt Low**

Date/Time: 2008--6-13 18:51:58

Electronics: DAE4 Sn777

Medium: Head GSM850

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.897$  mho/m;  $\epsilon_r = 44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 Frequency: 824.2 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3142 ConvF(5.97, 5.97, 5.97)

**Tilt Low/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.587 mW/g

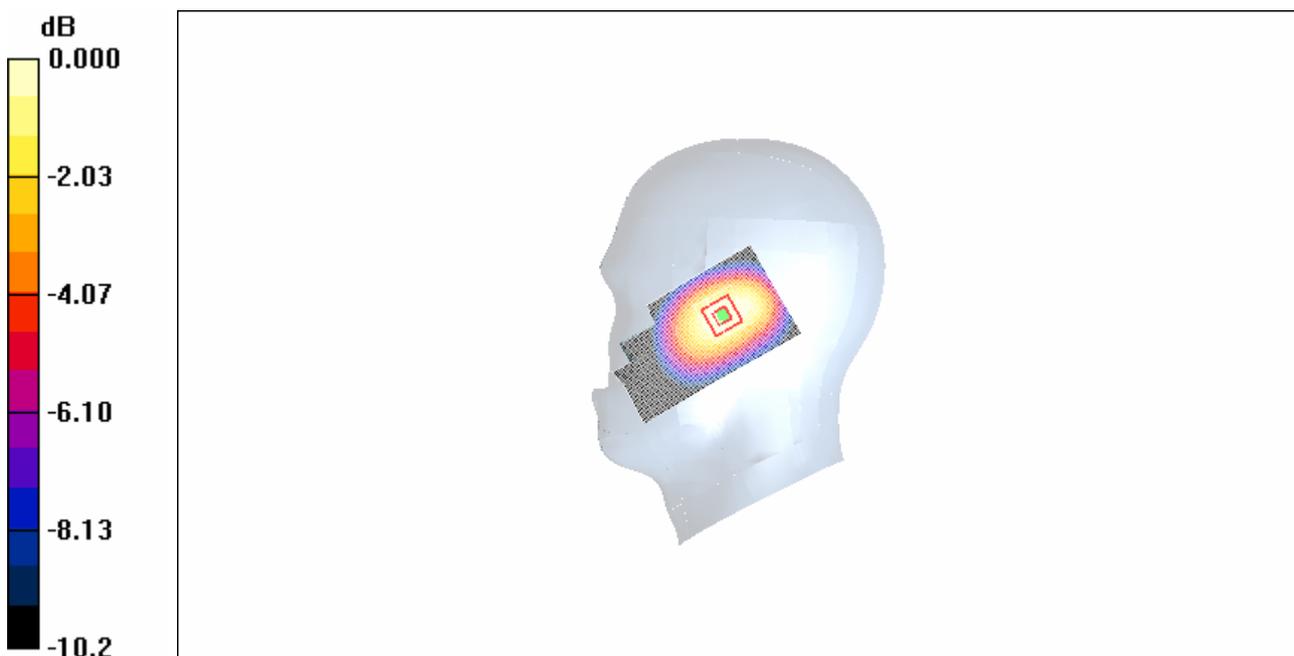
**Tilt Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.7 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 0.728 W/kg

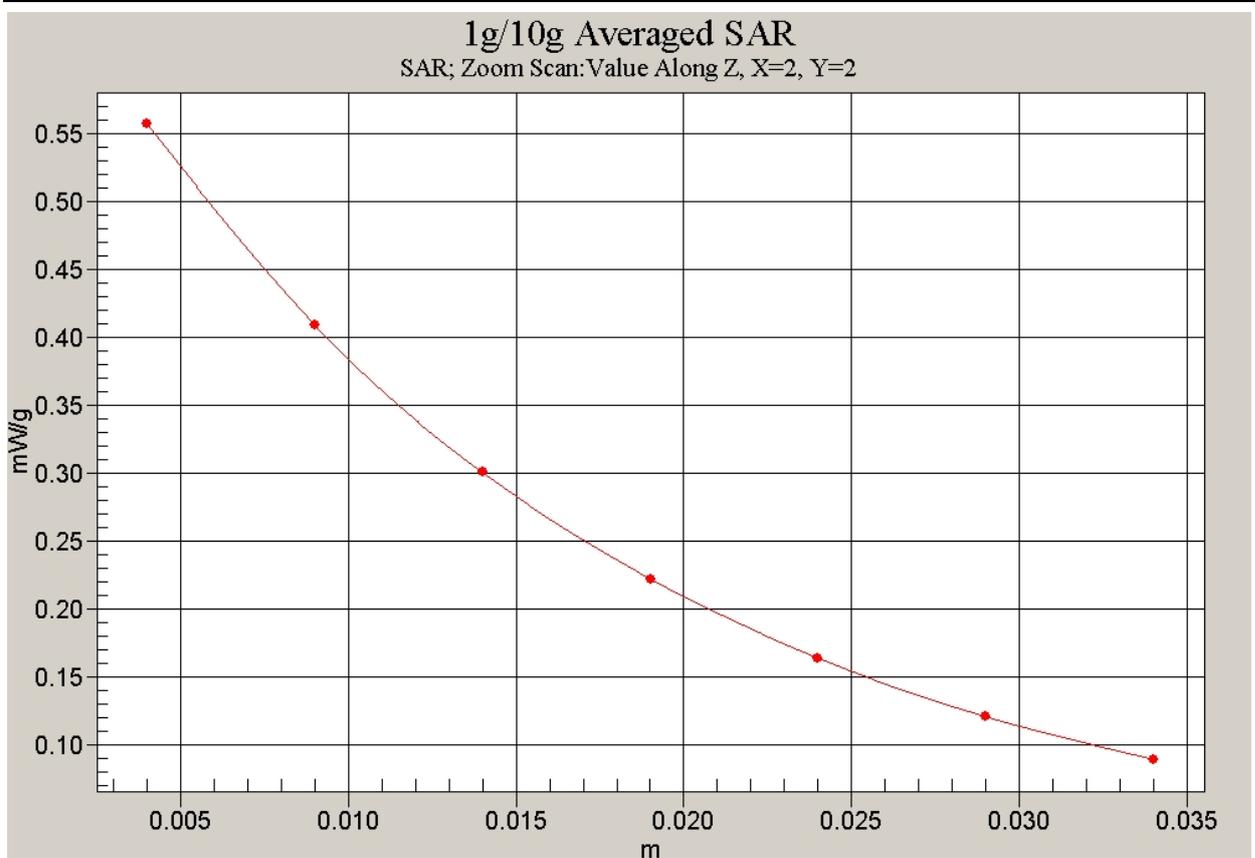
**SAR(1 g) = 0.541 mW/g; SAR(10 g) = 0.374 mW/g**

Maximum value of SAR (measured) = 0.557 mW/g



0 dB = 0.557mW/g

**Fig. 95 Right Hand Tilt 15°850MHz CH128**



**Fig. 96 Z-Scan at power reference point (850MHz CH128)**

**850 Body Toward Ground High with GPRS**

Date/Time: 2008-6-13 8:37:10

Electronics: DAE4 Sn777

Medium: 850 Body

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.983$  mho/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3142 ConvF(5.66, 5.66, 5.66)

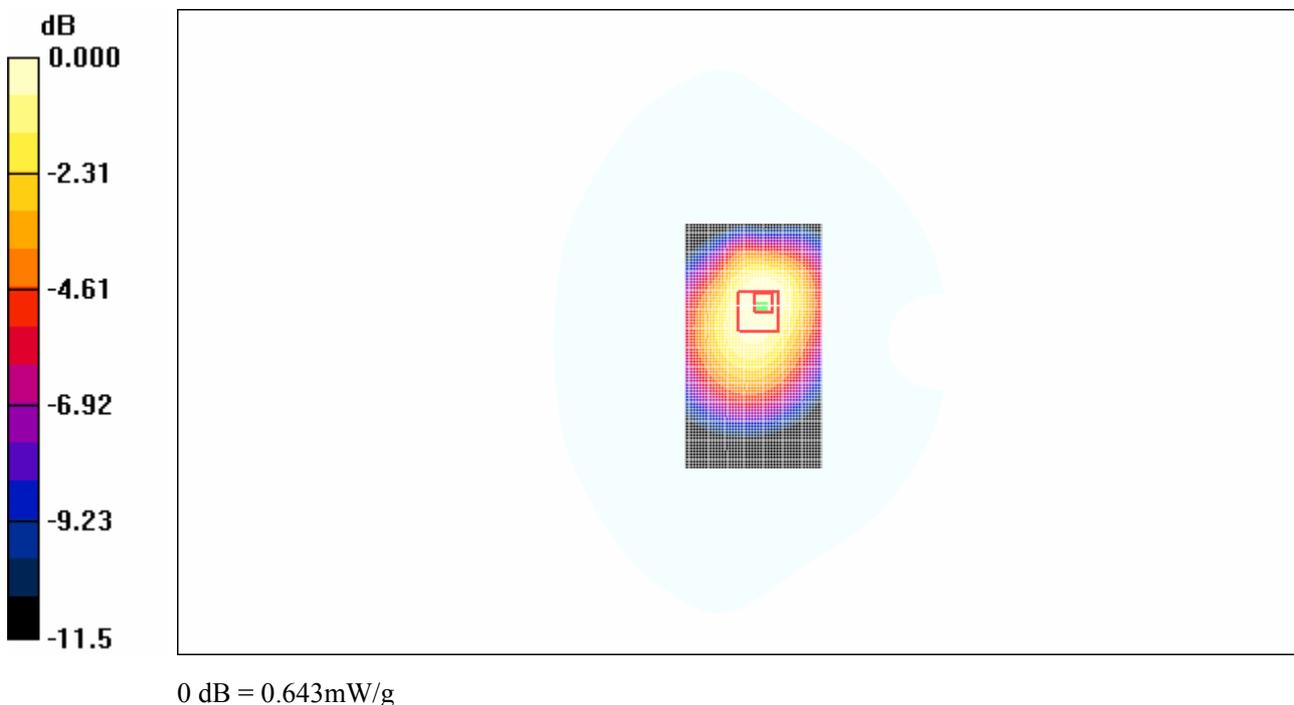
**Toward Ground High/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.658 mW/g**Toward Ground High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

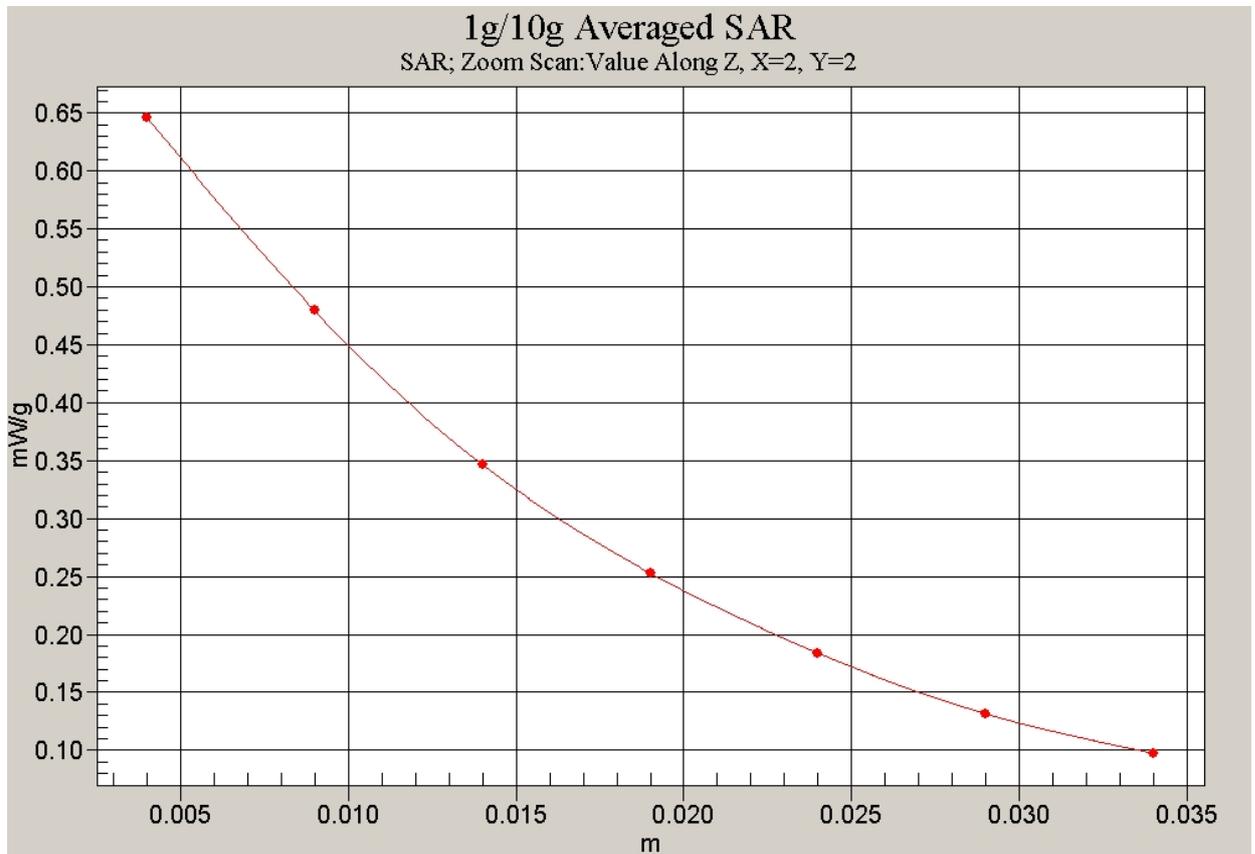
Reference Value = 24.6 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.846 W/kg

**SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.428 mW/g**

Maximum value of SAR (measured) = 0.643 mW/g

**Fig. 97 850MHz Body, Towards Ground with GPRS, CH251**



**Fig. 98 Z-Scan at power reference point  
(850MHz Body, Towards Ground with GPRS, CH251)**

**850 Body Toward Ground Middle with GPRS**

Date/Time: 2008-6-13 8:54:05

Electronics: DAE4 Sn777

Medium: 850 Body

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.971$  mho/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3142 ConvF(5.66, 5.66, 5.66)

**Toward Ground Middle/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.698 mW/g

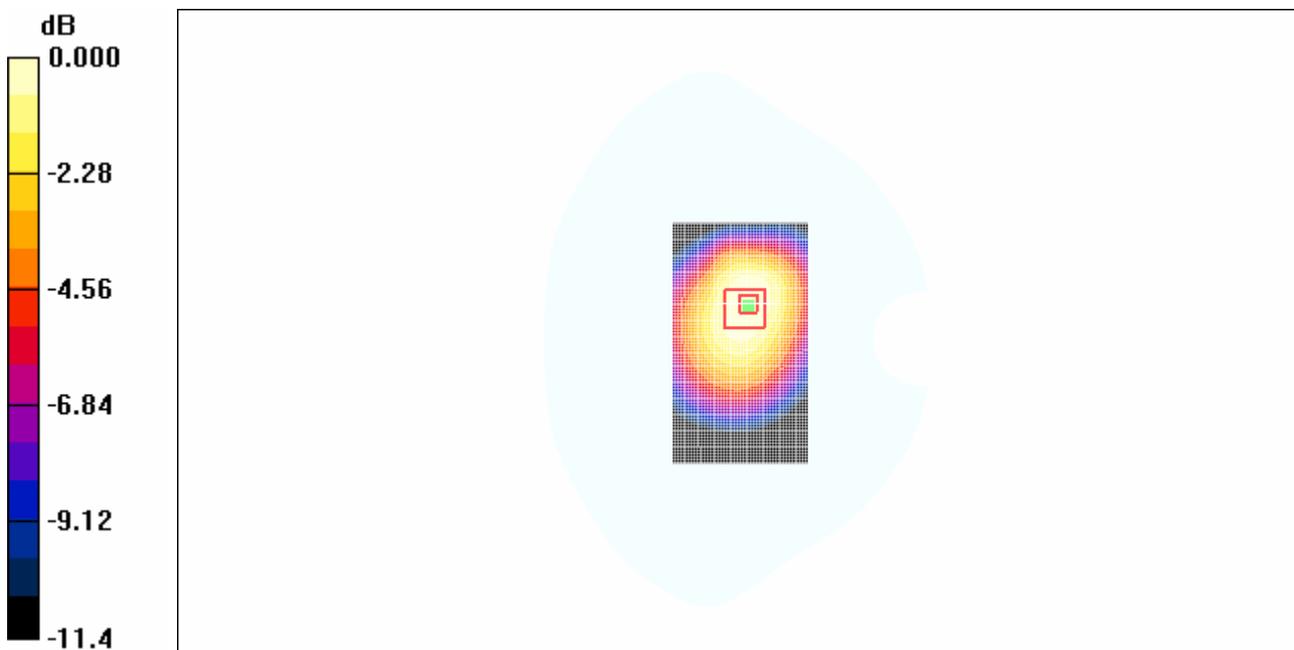
**Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.4 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.865 W/kg

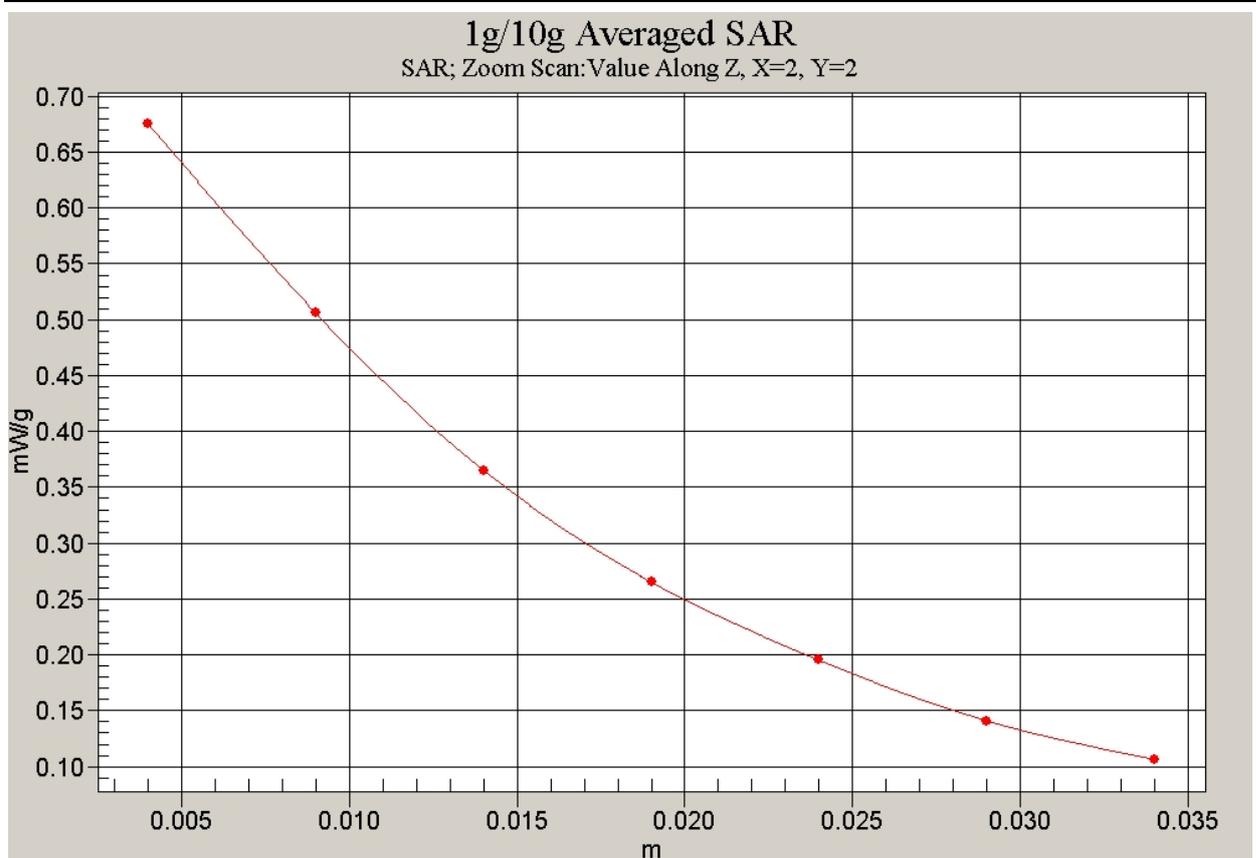
**SAR(1 g) = 0.639 mW/g; SAR(10 g) = 0.452 mW/g**

Maximum value of SAR (measured) = 0.675 mW/g



0 dB = 0.675mW/g

**Fig. 99 850MHz Body, Towards Ground with GPRS, CH190**



**Fig. 100 Z-Scan at power reference point  
(850MHz Body, Towards Ground with GPRS, CH190)**

**850 Body Toward Ground Low with GPRS**

Date/Time: 2008-6-13 9:11:25

Electronics: DAE4 Sn777

Medium: 850 Body

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 55.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 GPRS Frequency: 824.2 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3142 ConvF(5.66, 5.66, 5.66)

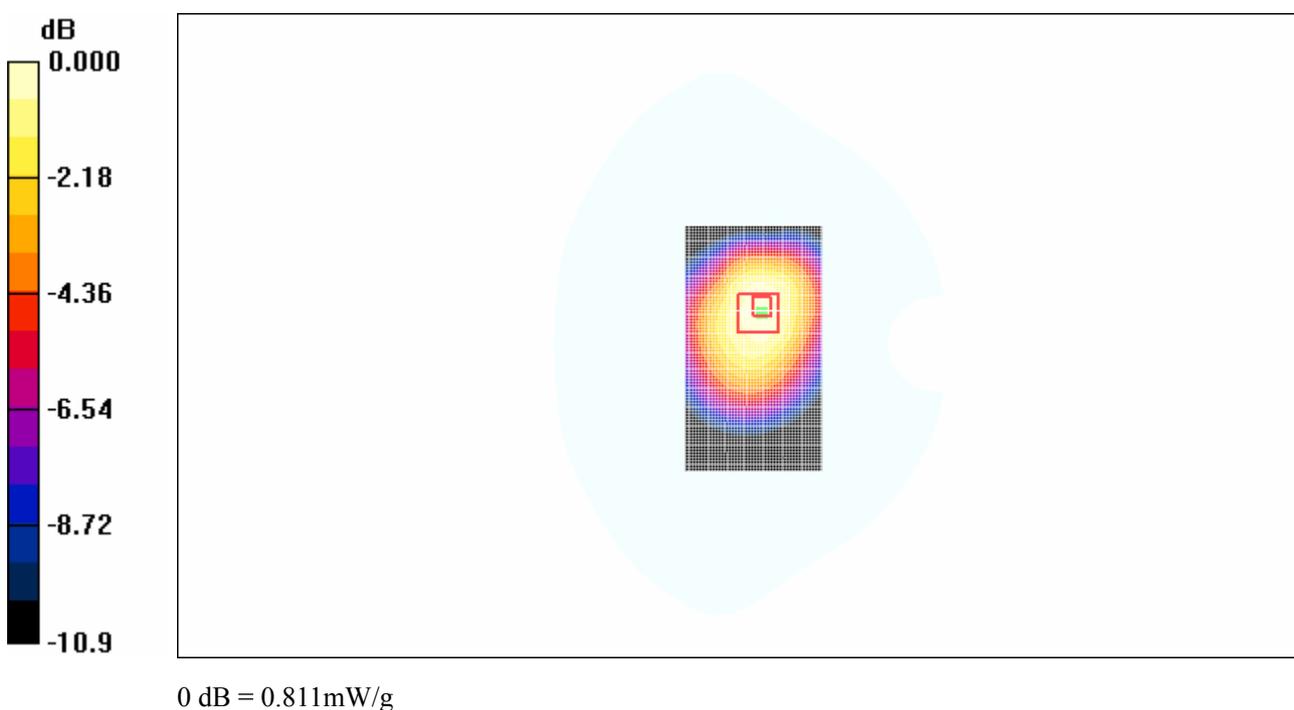
**Toward Ground Low/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.780 mW/g**Toward Ground Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

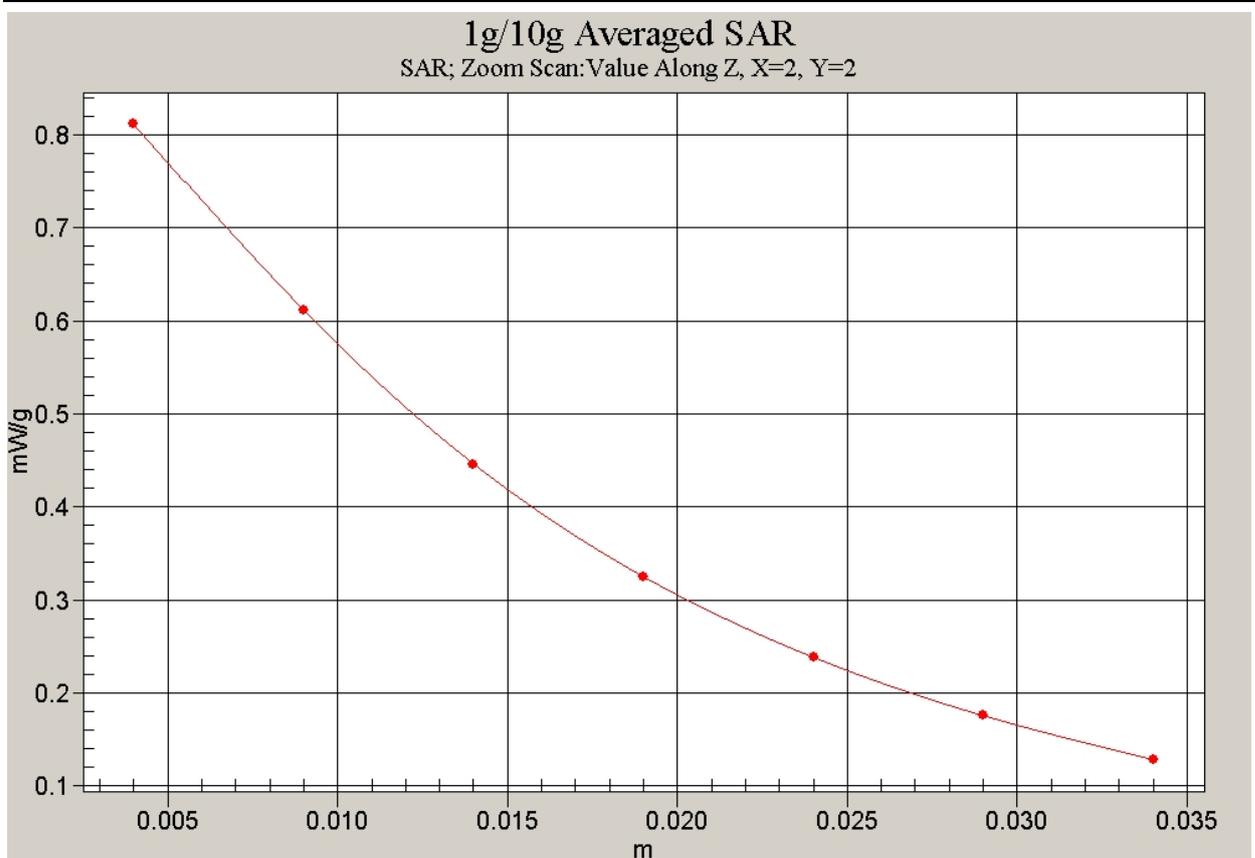
Reference Value = 27.8 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.545 mW/g**

Maximum value of SAR (measured) = 0.811 mW/g

**Fig. 101 850MHz Body, Towards Ground with GPRS, CH128**



**Fig. 102 Z-Scan at power reference point  
(850MHz Body, Towards Ground with GPRS, CH128)**

**850 Body Toward Phantom High with GPRS**

Date/Time: 2008-6-13 9:56:19

Electronics: DAE4 Sn777

Medium: 850 Body

Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.983$  mho/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 GPRS Frequency: 848.8 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3142 ConvF(5.66, 5.66, 5.66)

**Toward Phantom High/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.293 mW/g**Toward Phantom High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.7 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.365 W/kg

**SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.196 mW/g**

Maximum value of SAR (measured) = 0.293 mW/g

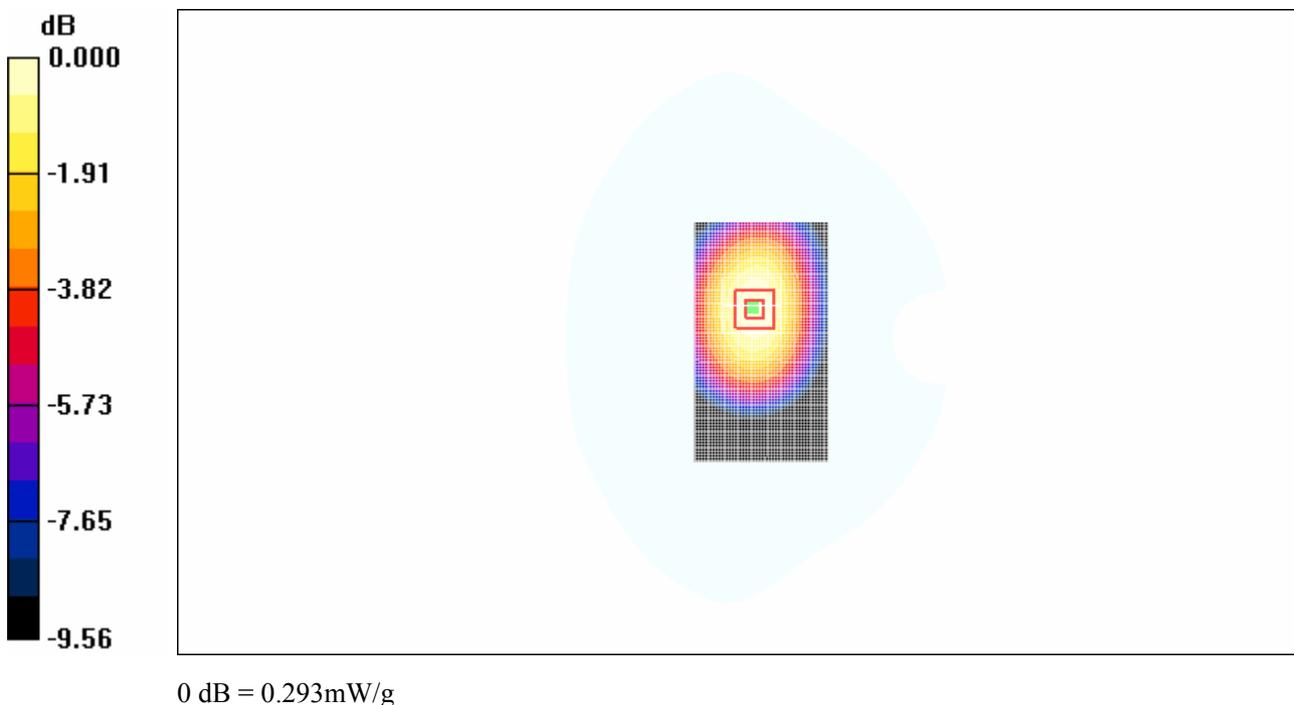
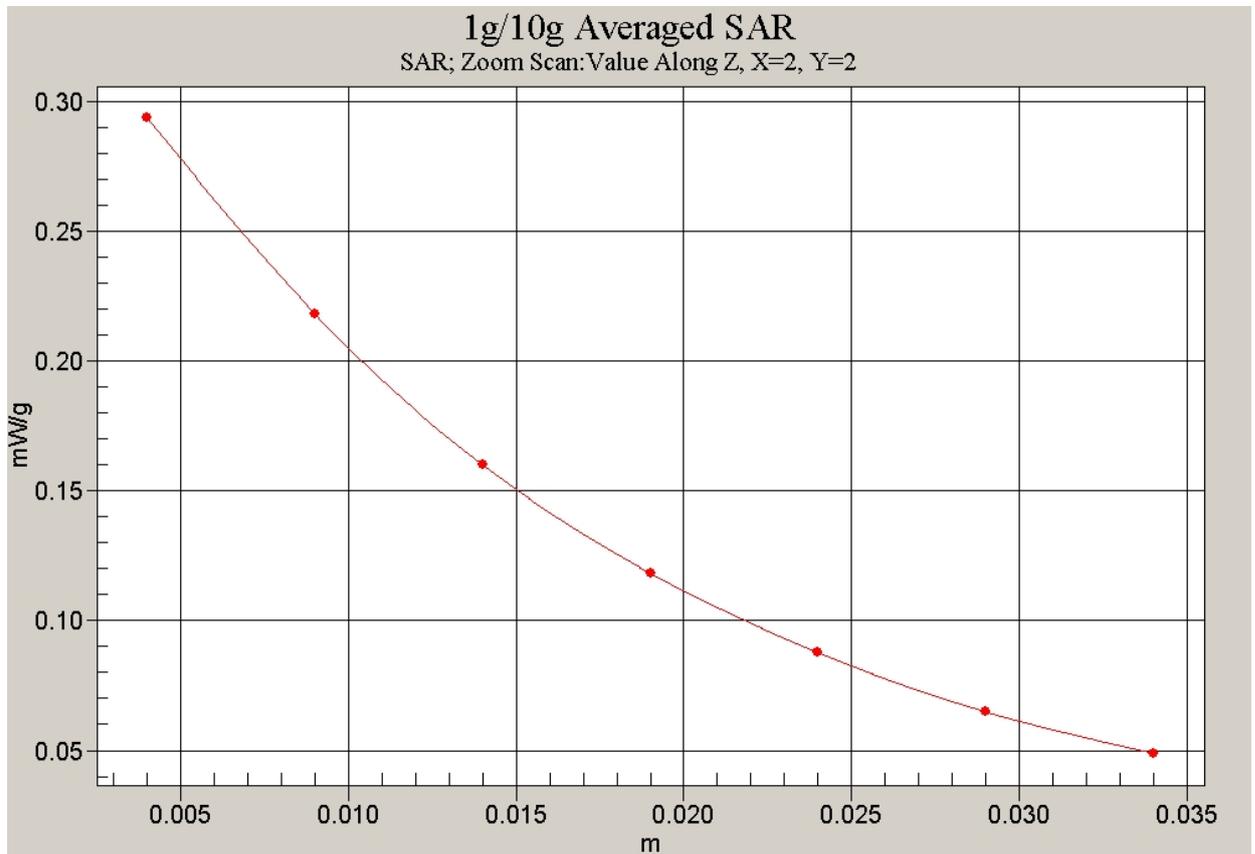


Fig. 103 850MHz Body, Towards Phantom with GPRS, CH251



**Fig. 104 Z-Scan at power reference point  
(850MHz Body, Towards Phantom with GPRS, CH251)**

**850 Body Toward Phantom Middle with GPRS**

Date/Time: 2008-6-13 9:45:34

Electronics: DAE4 Sn777

Medium: 850 Body

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.971$  mho/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3142 ConvF(5.66, 5.66, 5.66)

**Toward Phantom Middle/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.342 mW/g

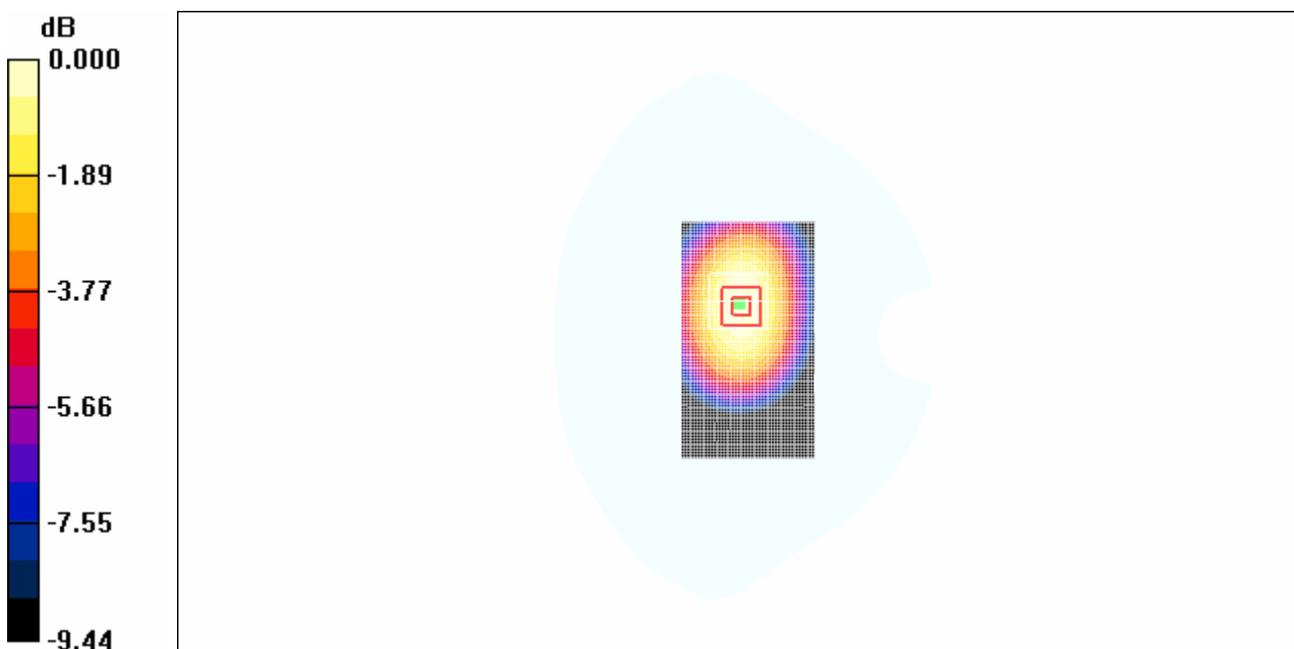
**Toward Phantom Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.404 W/kg

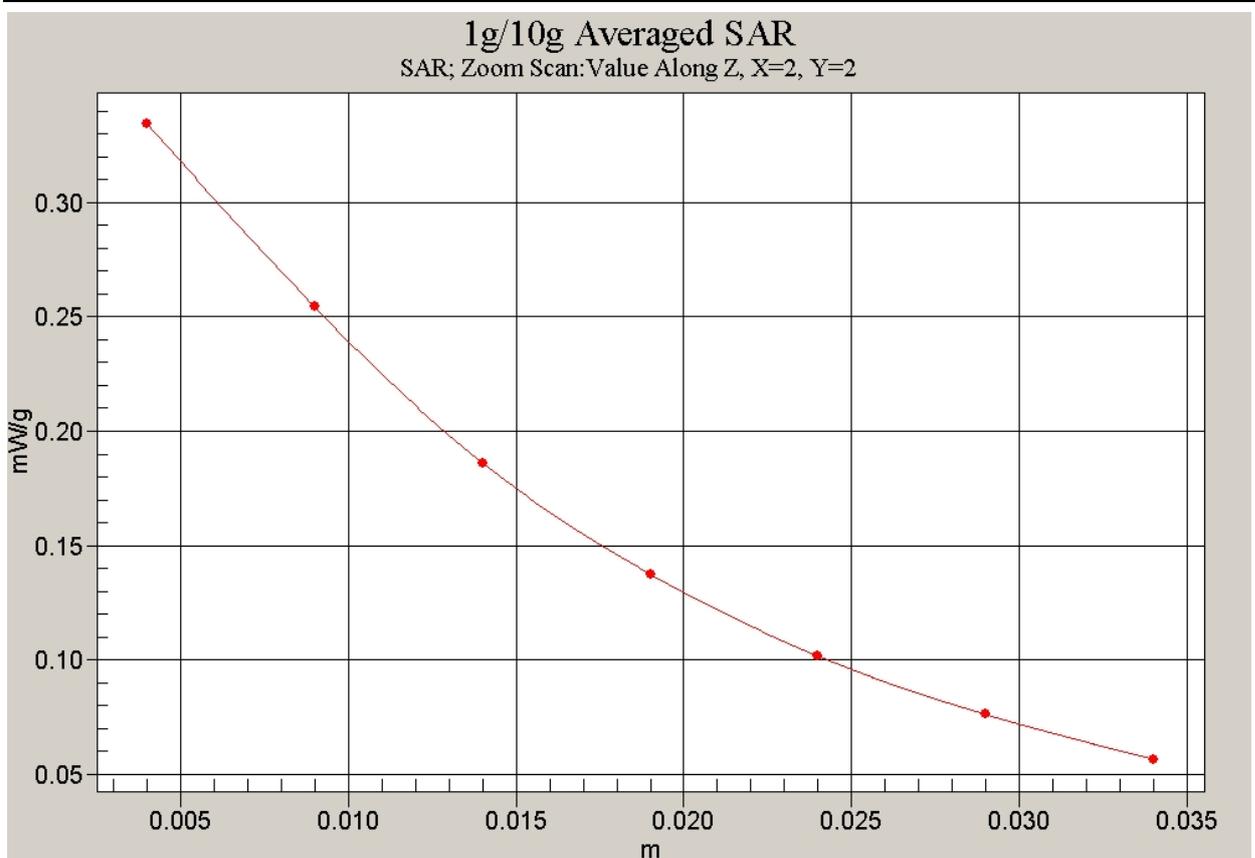
**SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.227 mW/g**

Maximum value of SAR (measured) = 0.334 mW/g



0 dB = 0.334mW/g

**Fig. 105 850MHz Body, Towards Phantom with GPRS, CH190**



**Fig.106 Z-Scan at power reference point  
(850MHz Body, Towards Phantom with GPRS, CH190)**

**850 Body Toward Phantom Low with GPRS**

Date/Time: 2008-6-13 9:23:07

Electronics: DAE4 Sn777

Medium: 850 Body

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 55.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 850 GPRS Frequency: 824.2 MHz Duty Cycle: 1:4

Probe: ES3DV3 - SN3142 ConvF(5.66, 5.66, 5.66)

**Toward Phantom Low/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 0.446 mW/g

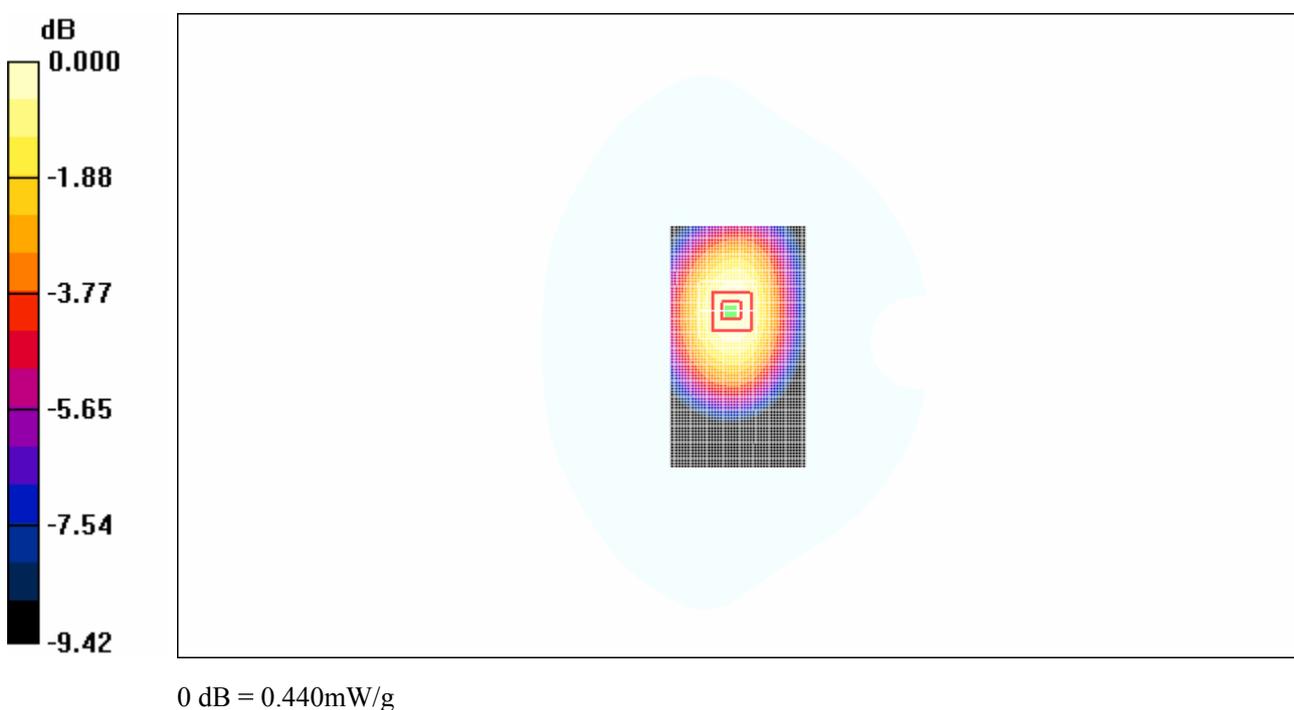
**Toward Phantom Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.6 V/m; Power Drift = -0.040 dB

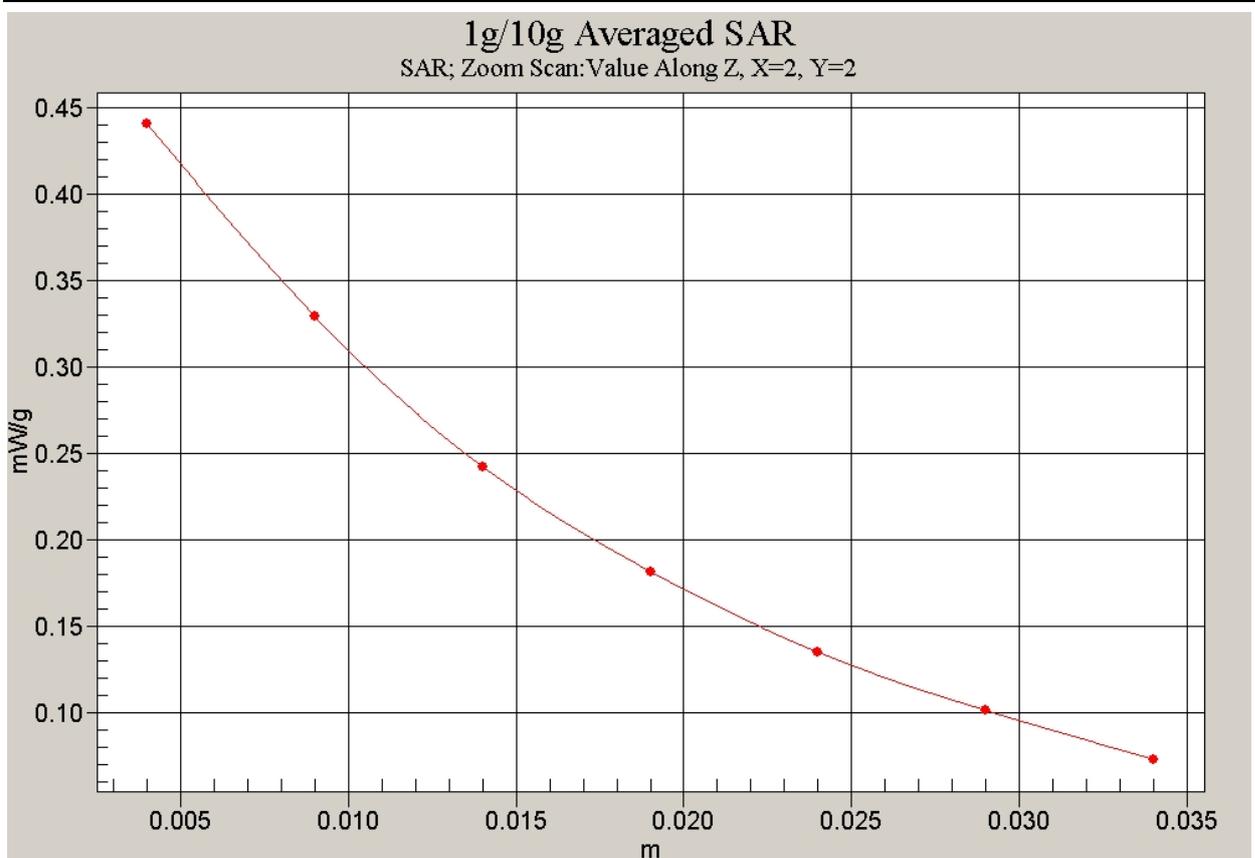
Peak SAR (extrapolated) = 0.539 W/kg

**SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.297 mW/g**

Maximum value of SAR (measured) = 0.440 mW/g



**Fig. 107 850MHz Body, Towards Phantom with GPRS, CH128**



**Fig. 108 Z-Scan at power reference point  
(850MHz Body, Towards Phantom with GPRS, CH128)**

**1900 Left Cheek High**

Date/Time: 2008-6-16 9:07:19

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 1900MHz new Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3142 ConvF(4.87, 4.87, 4.87)

**Cheek High/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

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

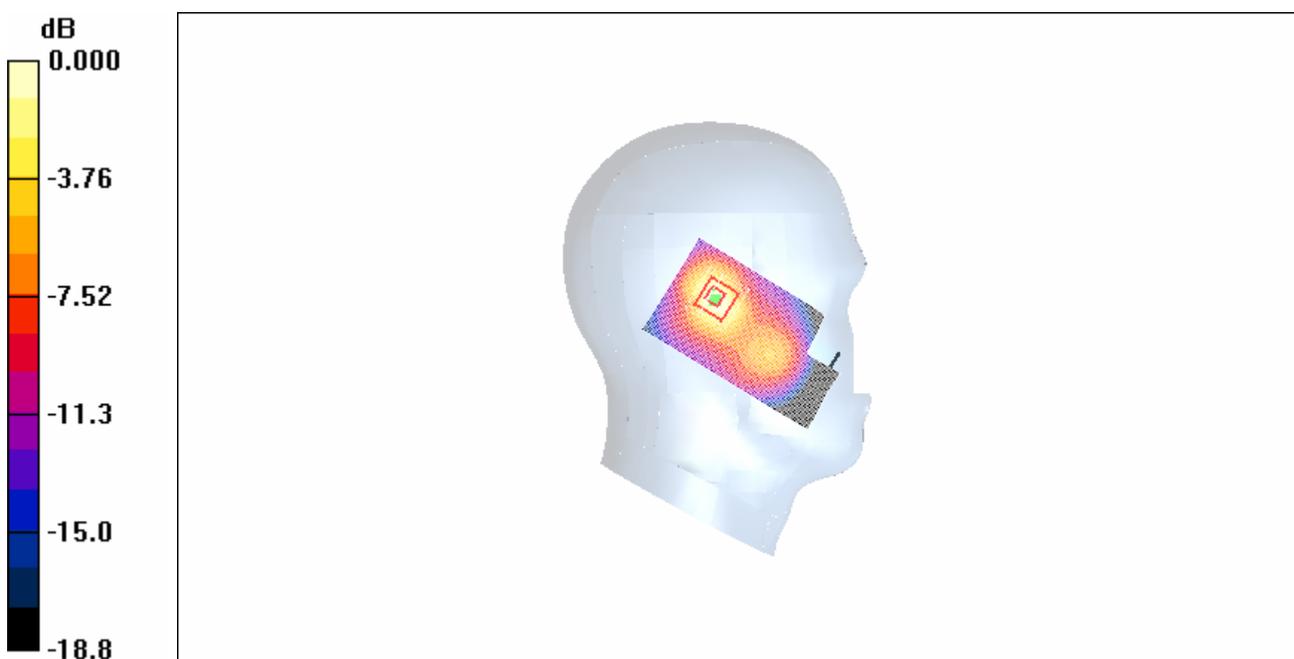
**Cheek High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.0 V/m; Power Drift = -0.160 dB

Peak SAR (extrapolated) = 0.877 W/kg

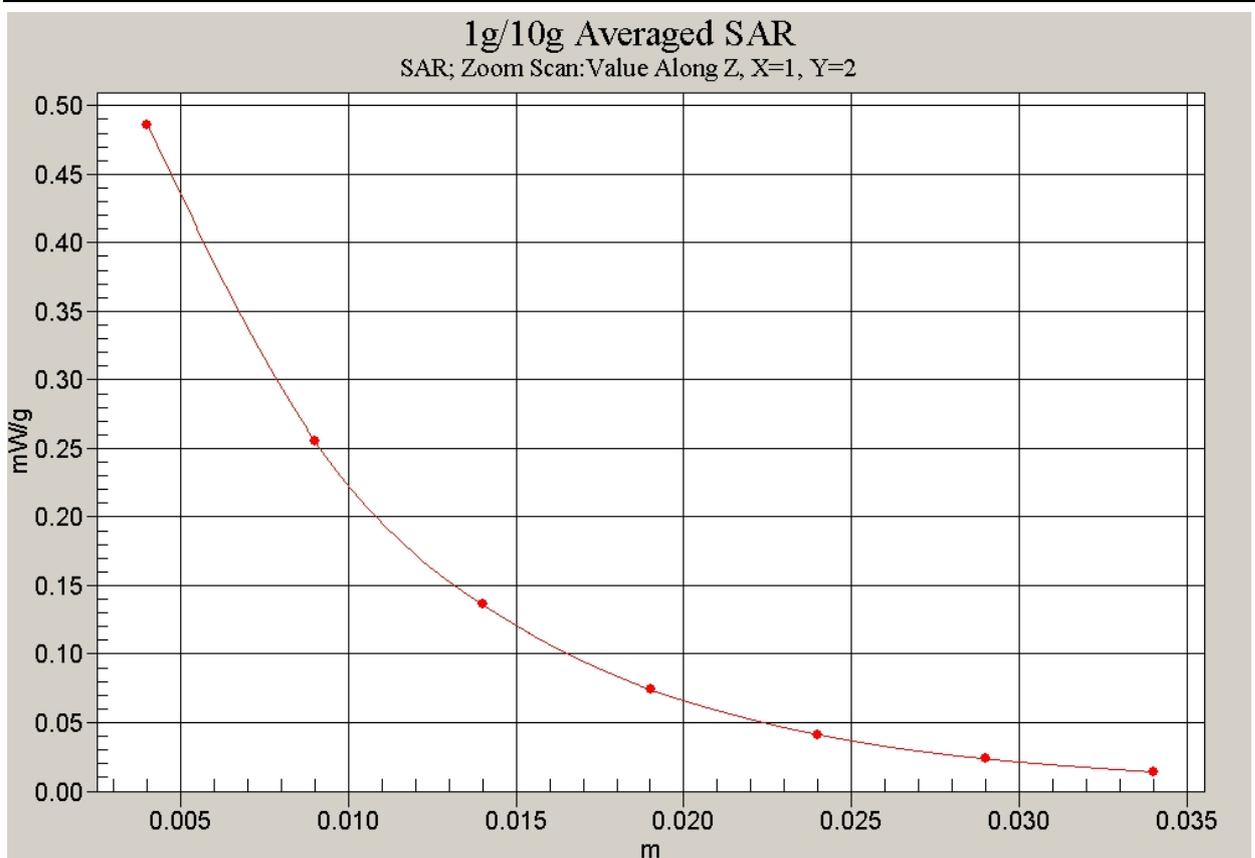
**SAR(1 g) = 0.451 mW/g; SAR(10 g) = 0.223 mW/g**

Maximum value of SAR (measured) = 0.486 mW/g



0 dB = 0.486mW/g

**Fig. 109 Left Hand Touch Cheek 1900MHz CH810**



**Fig. 110 Z-Scan at power reference point (1900MHz CH810)**

**1900 Left Cheek Middle**

Date/Time: 2008-6-16 9:18:30

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.35$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 1900MHz new Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3142 ConvF(4.87, 4.87, 4.87)

**Cheek Middle/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

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

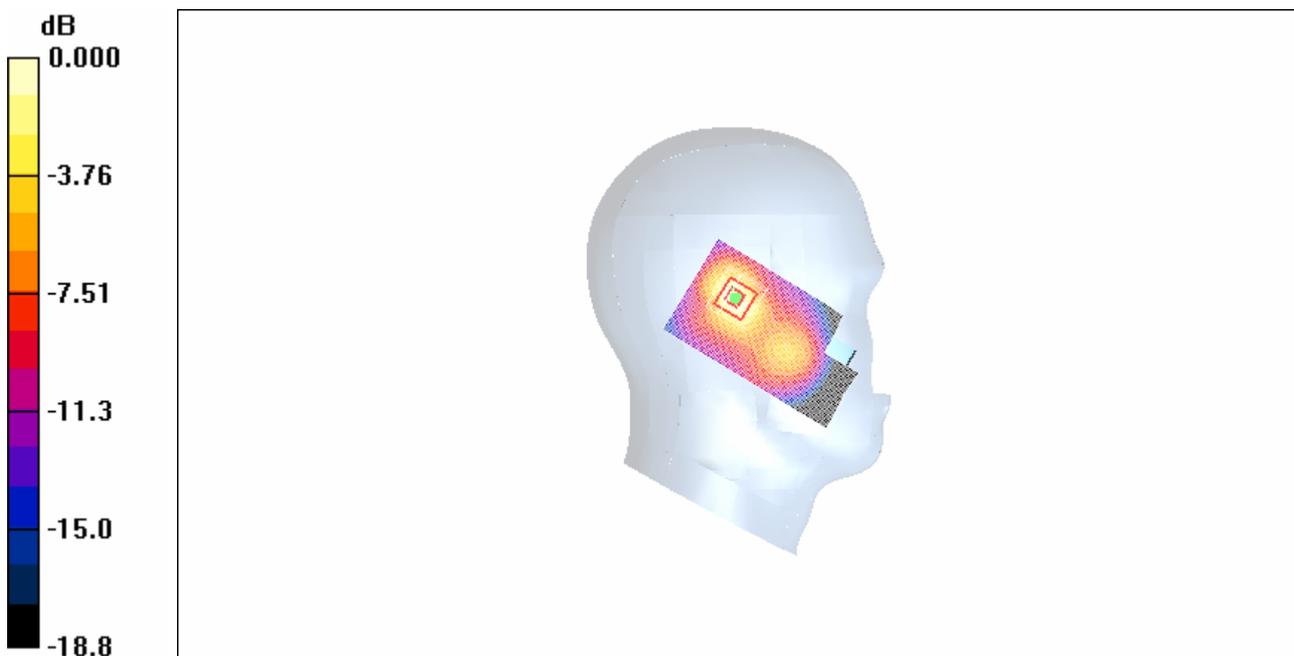
**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.0 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.267 mW/g**

Maximum value of SAR (measured) = 0.552 mW/g



0 dB = 0.552mW/g

Fig. 111 Left Hand Touch Cheek 1900MHz CH661

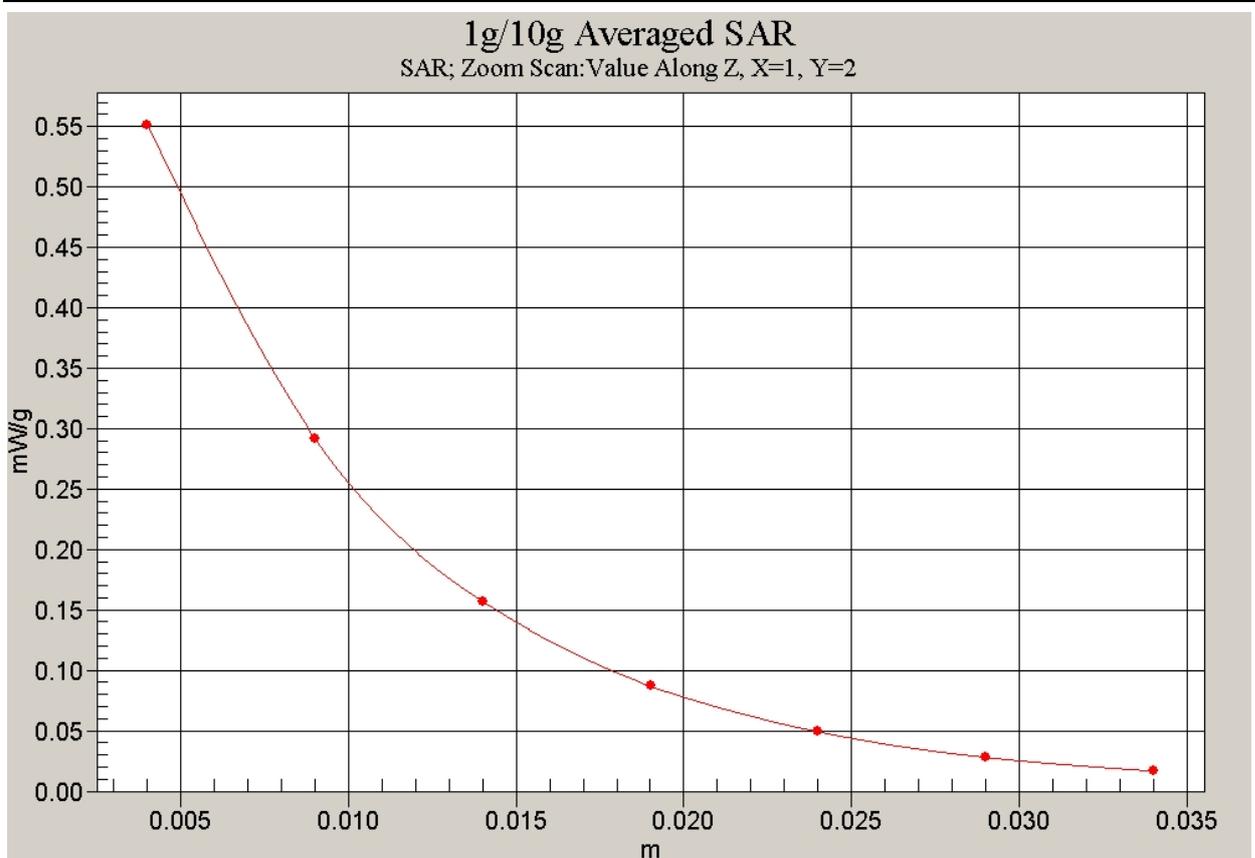


Fig. 112 Z-Scan at power reference point (1900MHz CH661)

**1900 Left Cheek Low**

Date/Time: 2008-6-16 9:28:55

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.32$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 1900MHz new Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3142 ConvF(4.87, 4.87, 4.87)

**Cheek Low/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.604 mW/g

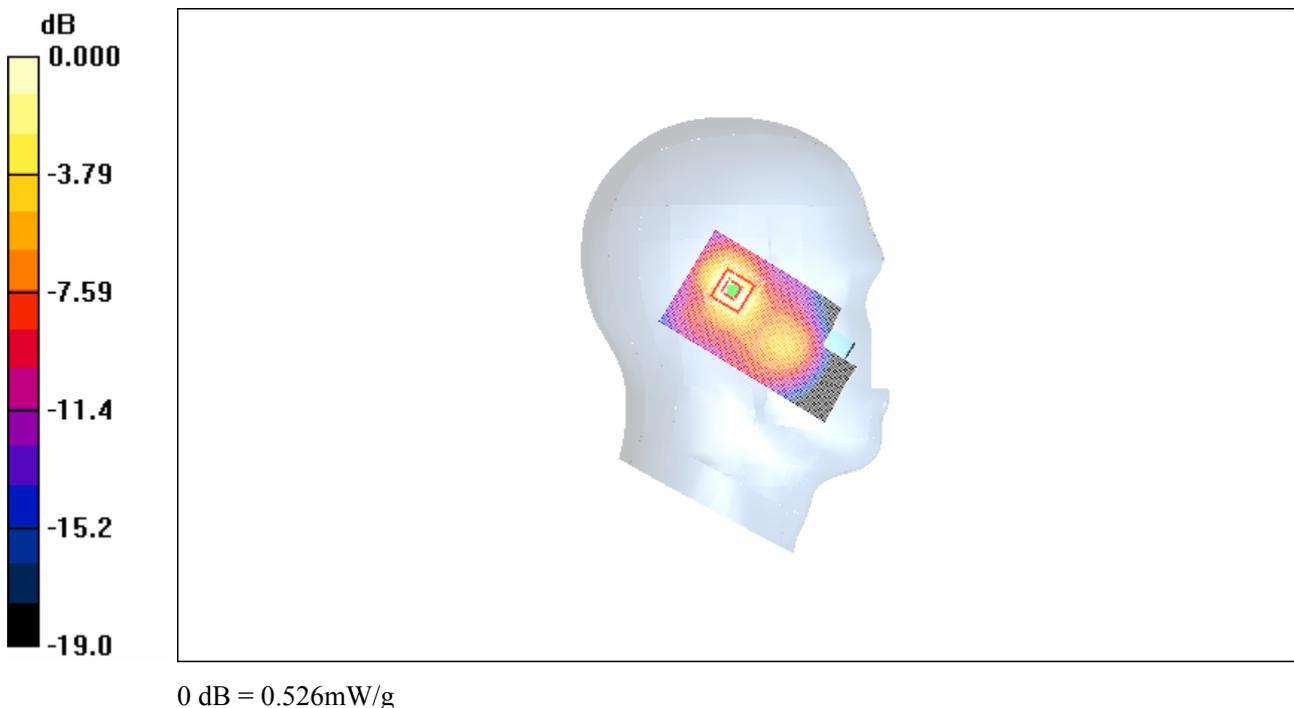
**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.6 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 0.994 W/kg

**SAR(1 g) = 0.517 mW/g; SAR(10 g) = 0.255 mW/g**

Maximum value of SAR (measured) = 0.526 mW/g

**Fig. 113 Left Hand Touch Cheek 1900MHz CH512**

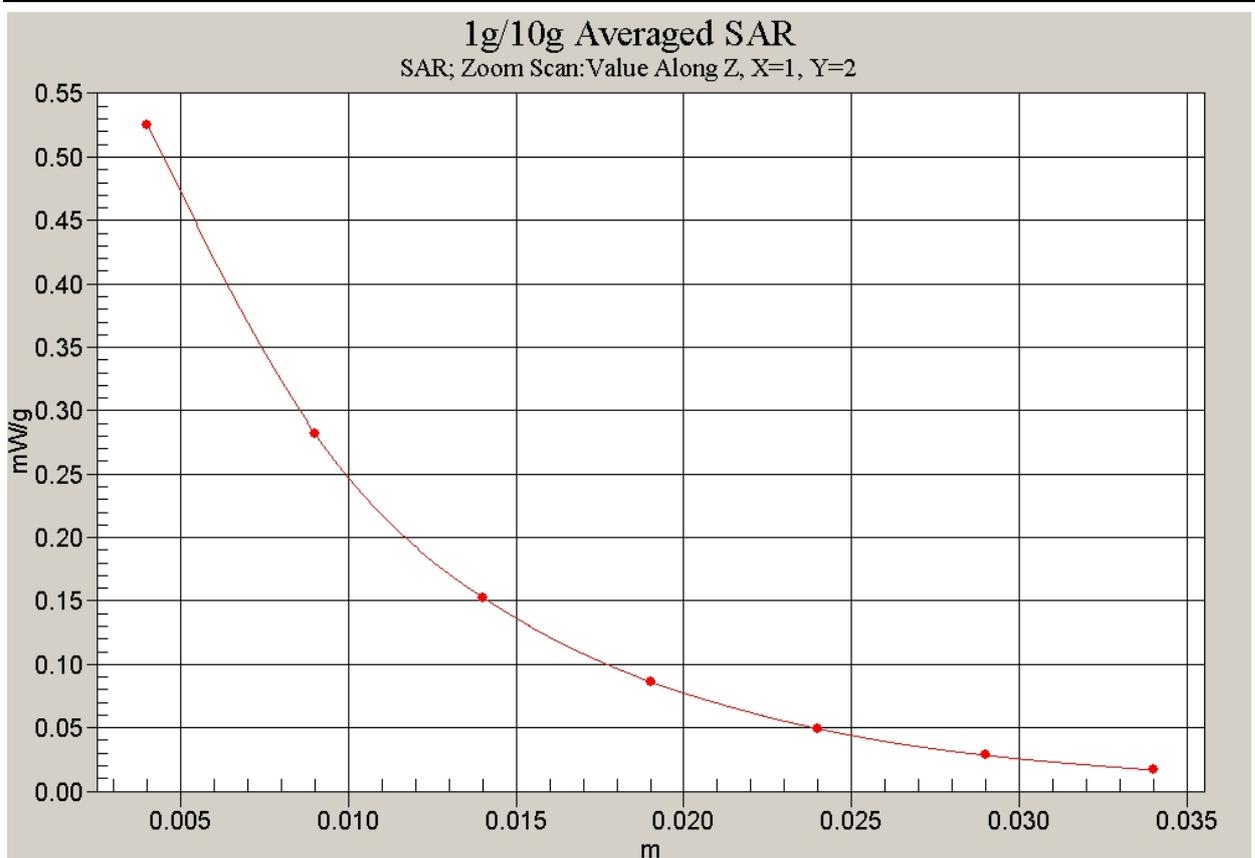


Fig. 114 Z-Scan at power reference point (1900MHz CH512)

**1900 Left Tilt High**

Date/Time: 2008-6-16 10:00:44

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 1900MHz new Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3142 ConvF(4.87, 4.87, 4.87)

**Tilt High/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.542 mW/g

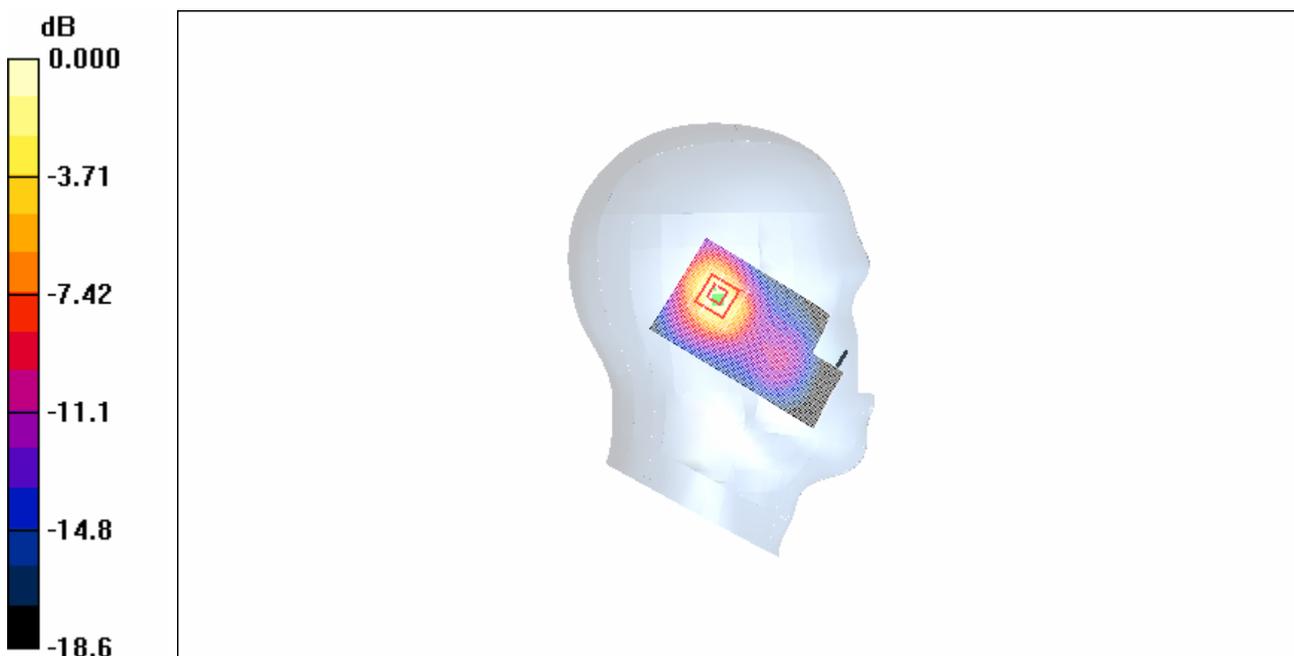
**Tilt High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

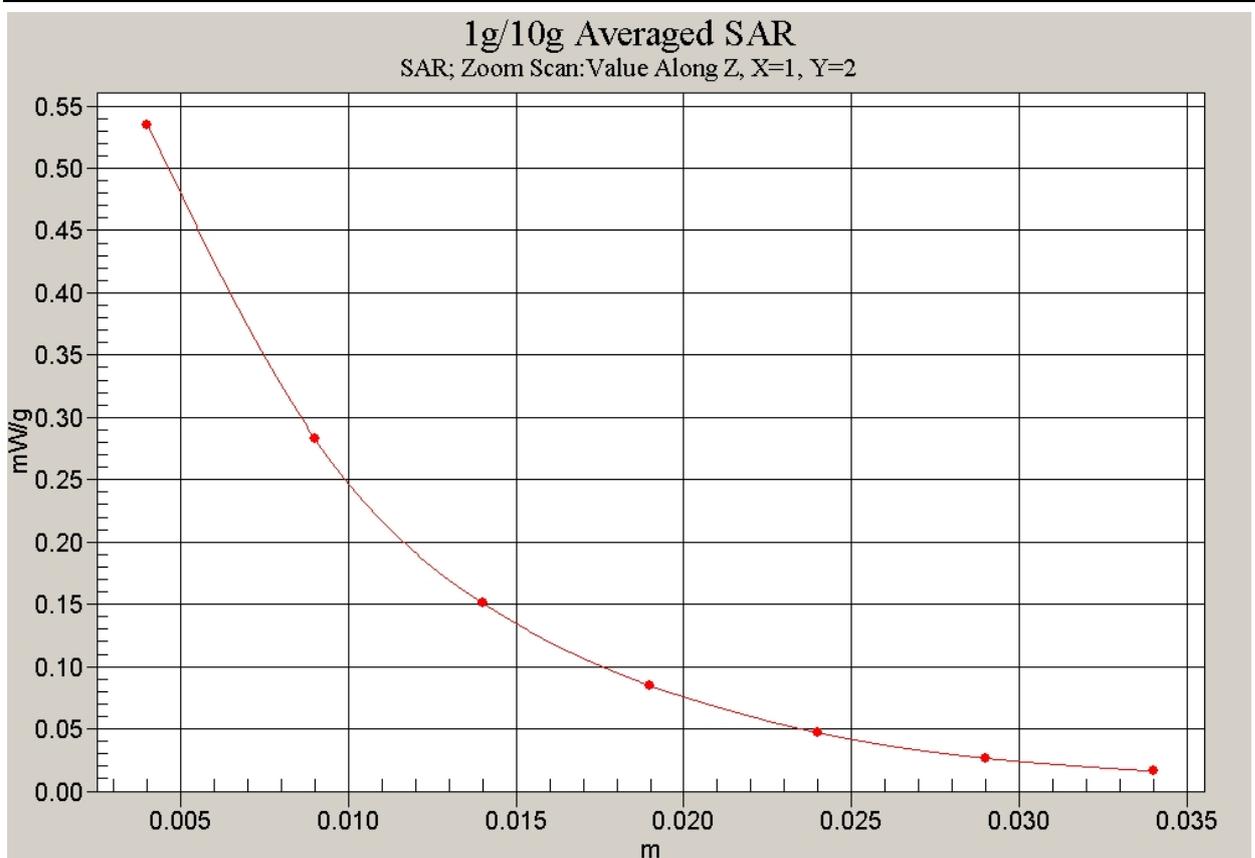
Reference Value = 16.5 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.927 W/kg

**SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.238 mW/g**

Maximum value of SAR (measured) = 0.535 mW/g

**Fig.115Left Hand Tilt 15° 1900MHz CH810**



**Fig. 116 Z-Scan at power reference point (1900MHz CH810)**

**1900 Left Tilt Middle**

Date/Time: 2008-6-16 9:50:31

Electronics: DAE4 Sn777

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.35$  mho/m;  $\epsilon_r = 39.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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

Communication System: GSM 1900MHz new Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ES3DV3 - SN3142 ConvF(4.87, 4.87, 4.87)

**Tilt Middle/Area Scan (51x91x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.663 mW/g

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

Reference Value = 18.2 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.583 mW/g; SAR(10 g) = 0.289 mW/g**

Maximum value of SAR (measured) = 0.602 mW/g



Fig. 117 Left Hand Tilt 15° 1900MHz CH661