

GSM 1900 Right Cheek High

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn679;

Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.406 mW/g

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

Reference Value = 14.5 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.646 W/kg

SAR(1 g) = 0.369 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (measured) = 0.428 mW/g

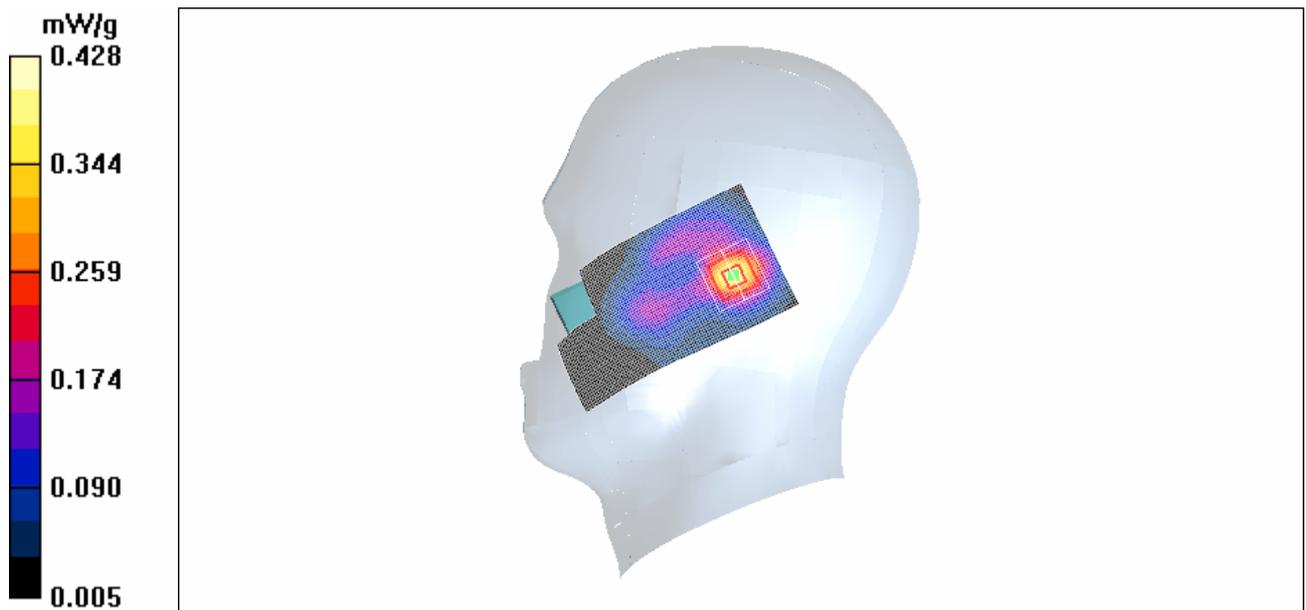


Figure 72 Right Hand Touch Cheek GSM 1900 Channel 810

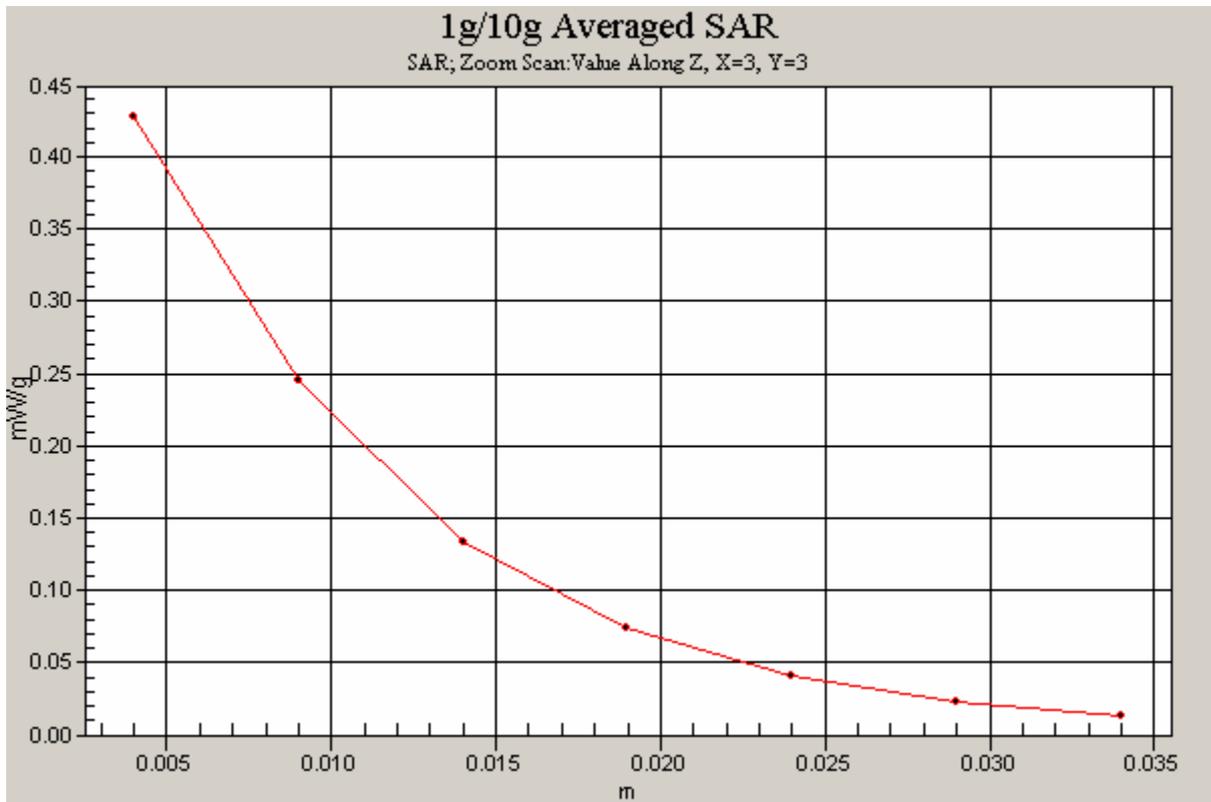


Figure 73 Z-Scan at power reference point (Right Hand Touch Cheek GSM 1900 Channel 810)

GSM 1900 Right Cheek Middle

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn679;

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.507 mW/g

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

Reference Value = 16.7 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.806 W/kg

SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.233 mW/g

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

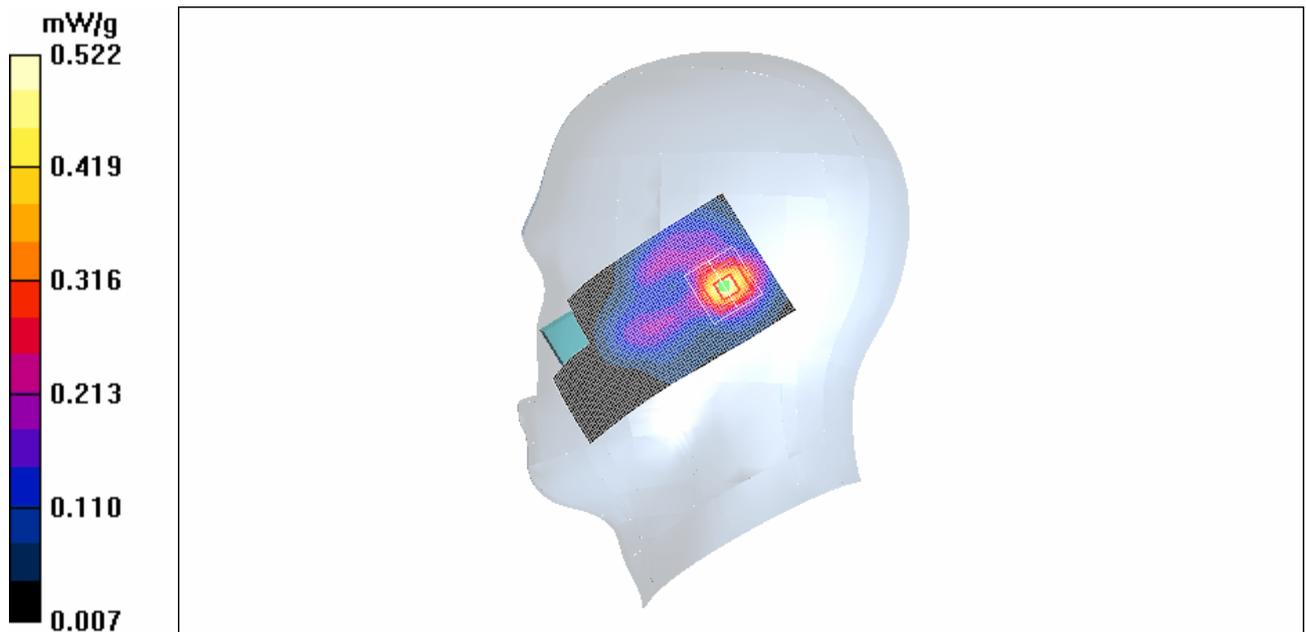


Figure 74 Right Hand Touch Cheek GSM 1900 Channel 661

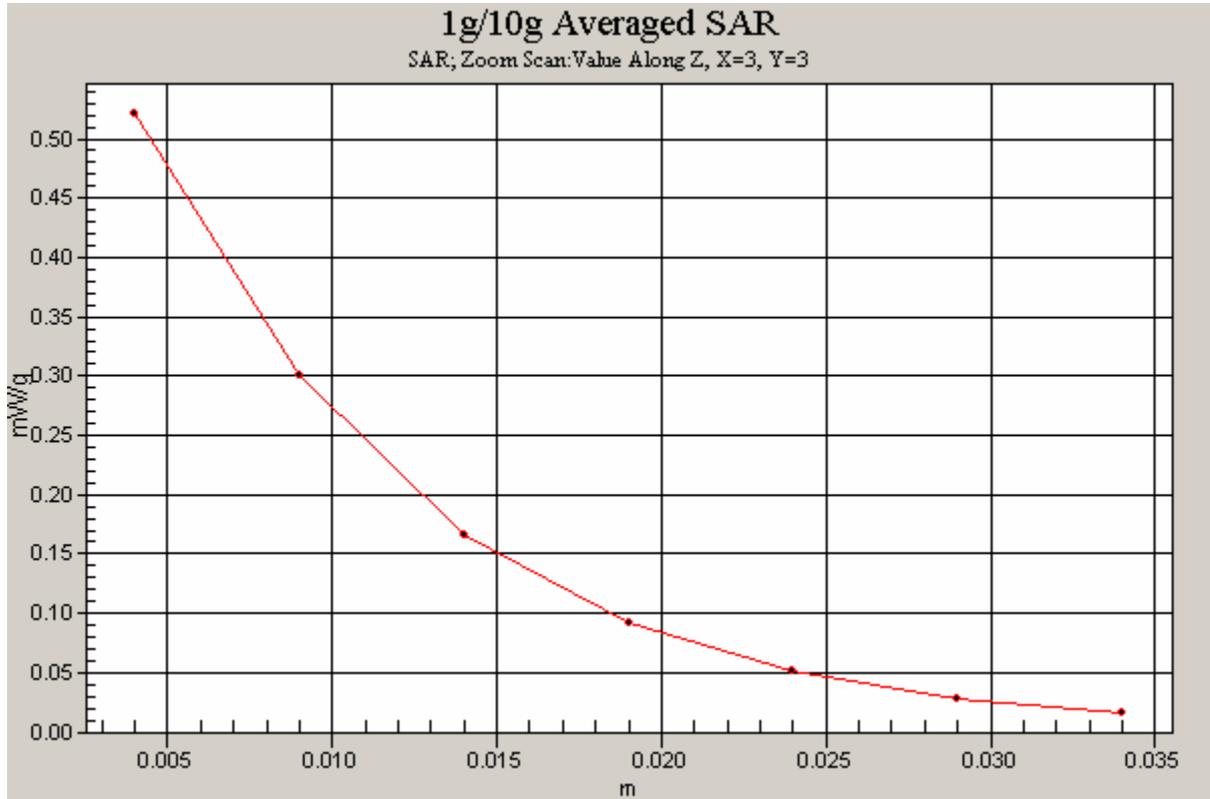


Figure 75 Z-Scan at power reference point (Right Hand Touch Cheek GSM 1900 Channel 661)

GSM 1900 Right Cheek Low

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn679;

Right Cheek Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.527 mW/g

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

Reference Value = 17.4 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.478 mW/g; SAR(10 g) = 0.244 mW/g

Maximum value of SAR (measured) = 0.543 mW/g

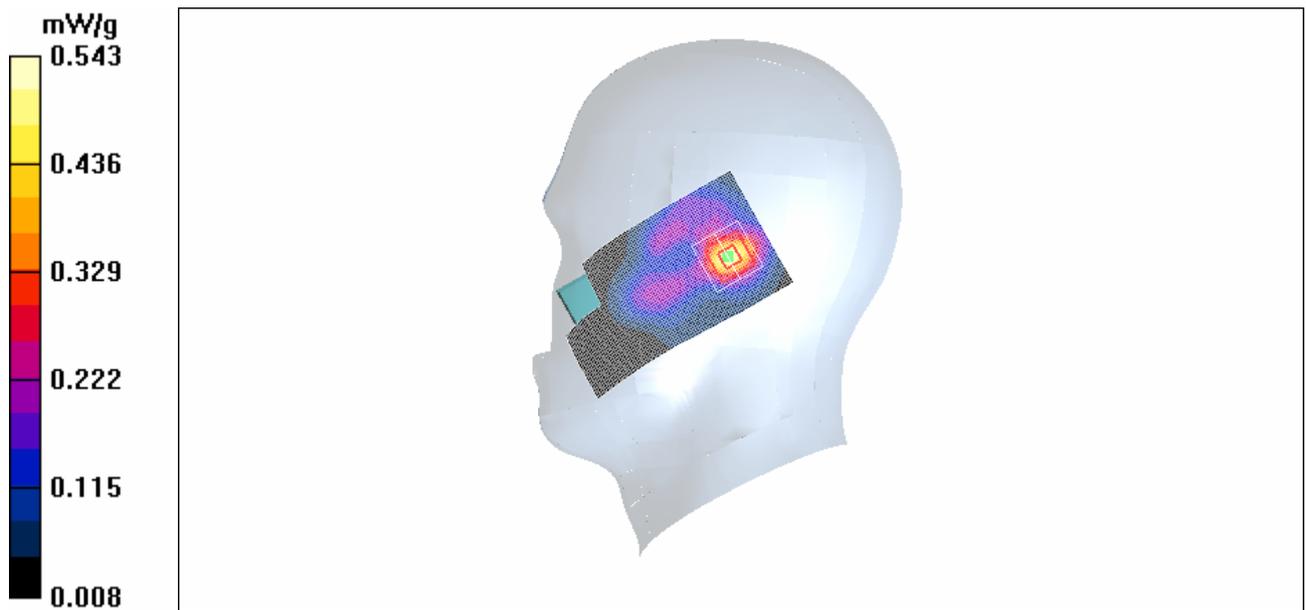


Figure 76 Right Hand Touch Cheek GSM 1900 Channel 512

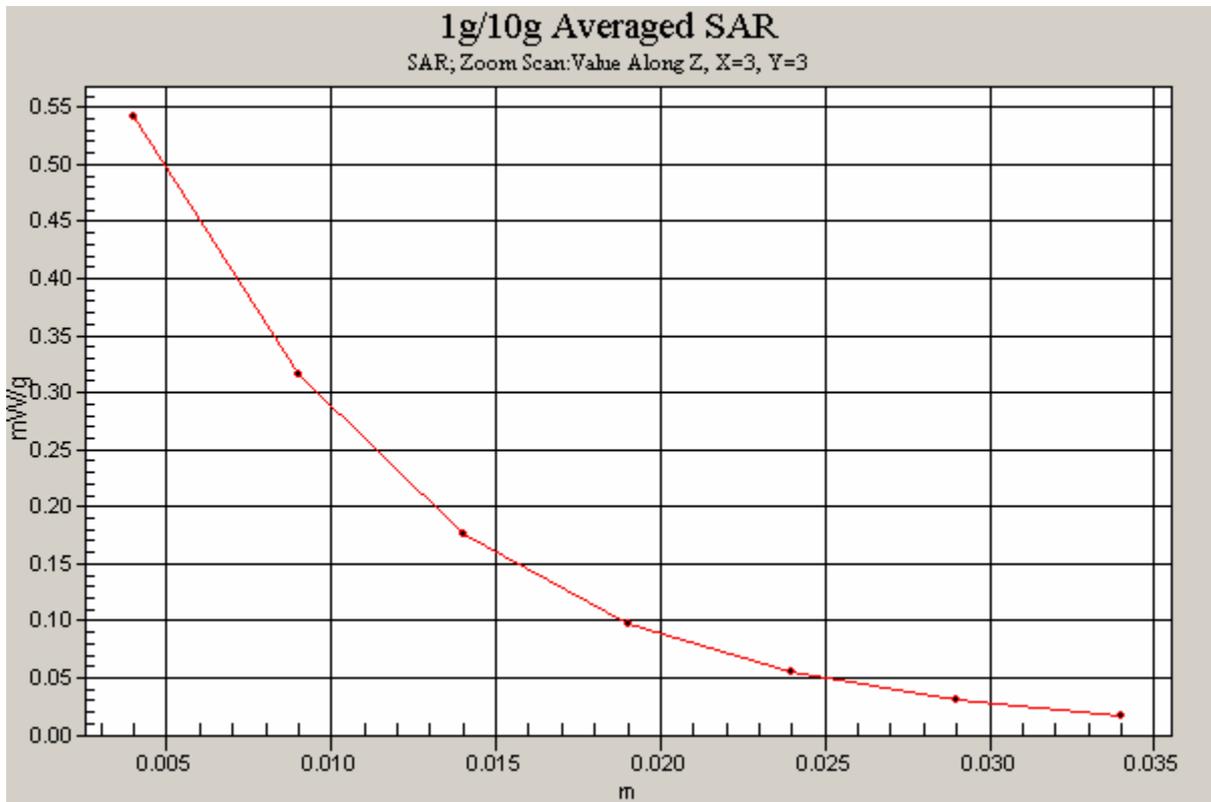


Figure 77 Z-Scan at power reference point (Right Hand Touch Cheek GSM 1900 Channel 512)

GSM 1900 Right Tilt High

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn679;

Right Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.611 mW/g

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

Reference Value = 18.3 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.885 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.267 mW/g

Maximum value of SAR (measured) = 0.585 mW/g

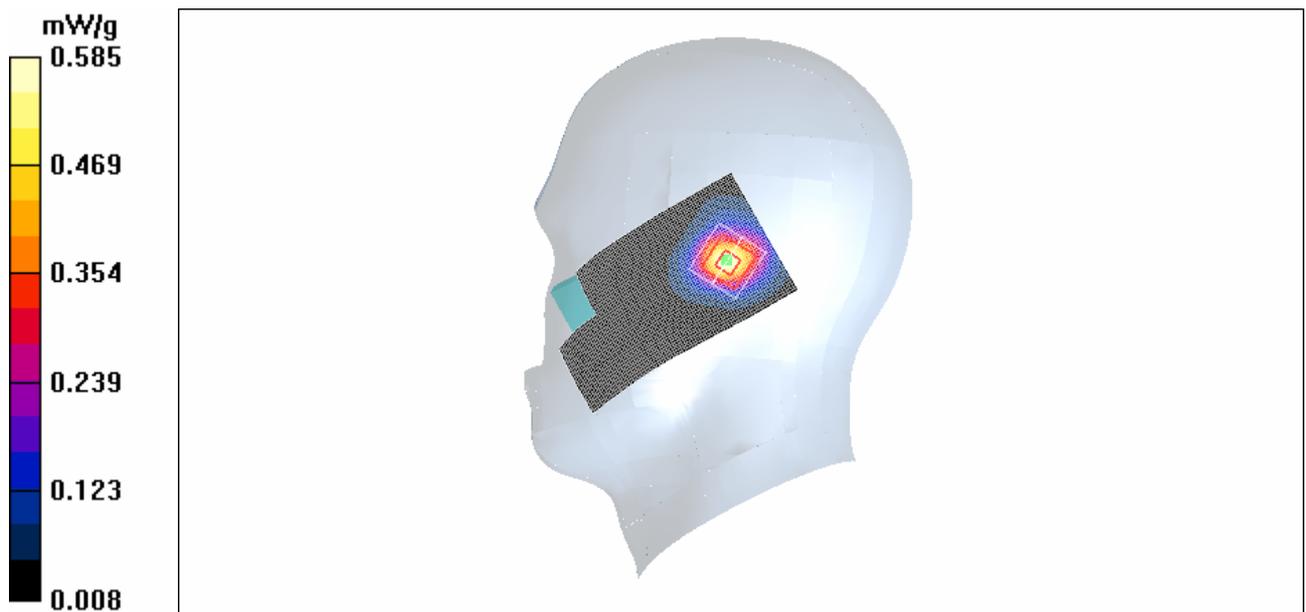


Figure 78 Right Hand Tilt 15° GSM 1900 Channel 810

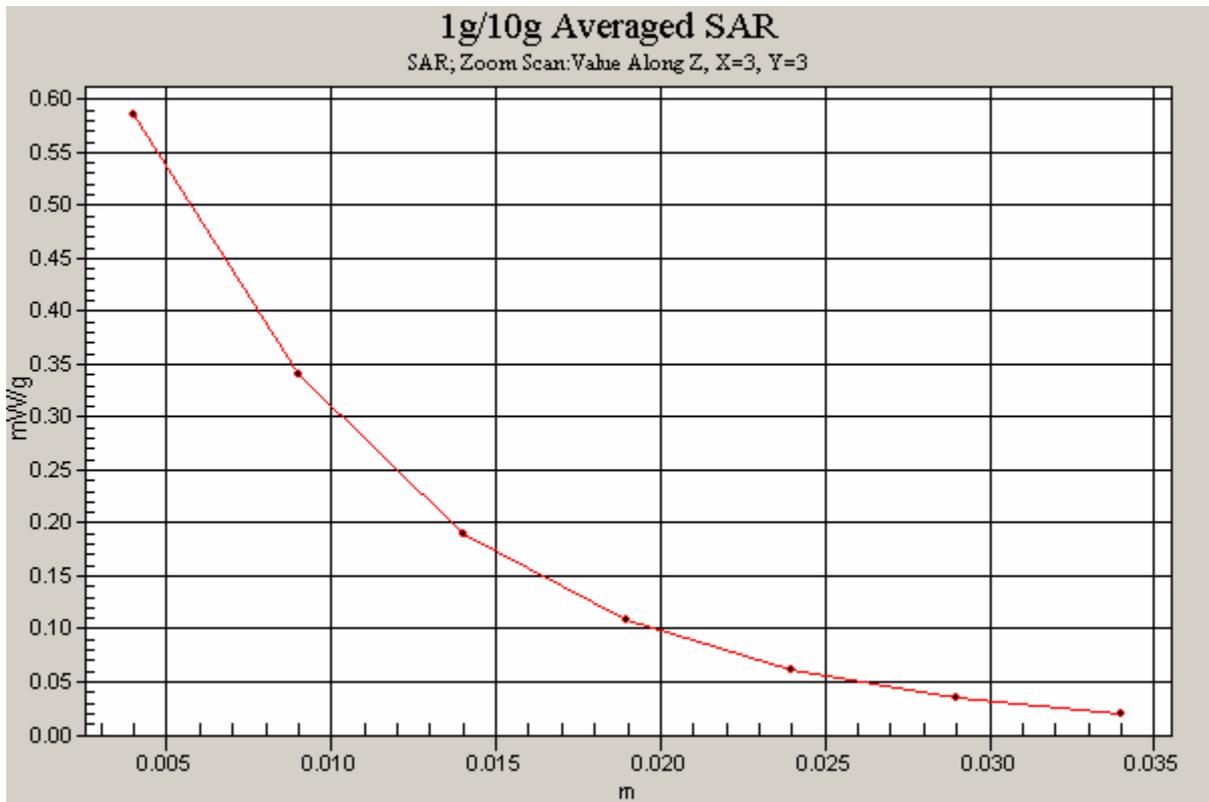


Figure 79 Z-Scan at power reference point (Right Hand Tilt 15° GSM 1900 Channel 810)

GSM 1900 Right Tilt Middle

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn679;

Right Tilt Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.749 mW/g

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

Reference Value = 20.5 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.633 mW/g; SAR(10 g) = 0.331 mW/g

Maximum value of SAR (measured) = 0.722 mW/g

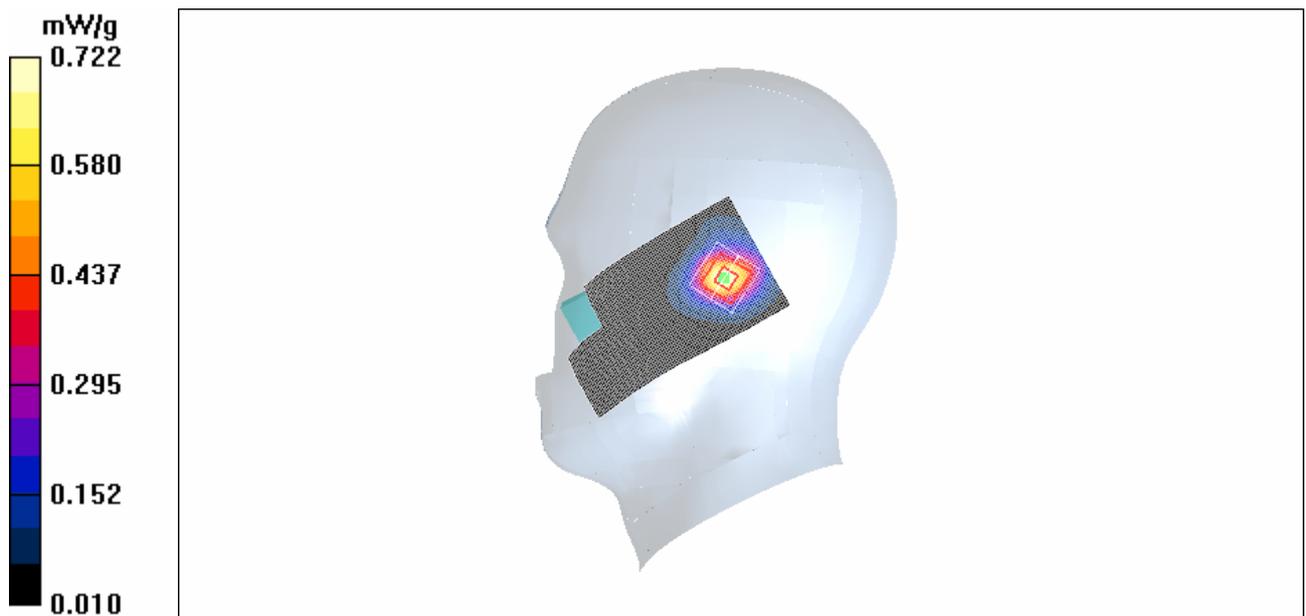


Figure 80 Right Hand Tilt 15° GSM 1900 Channel 661

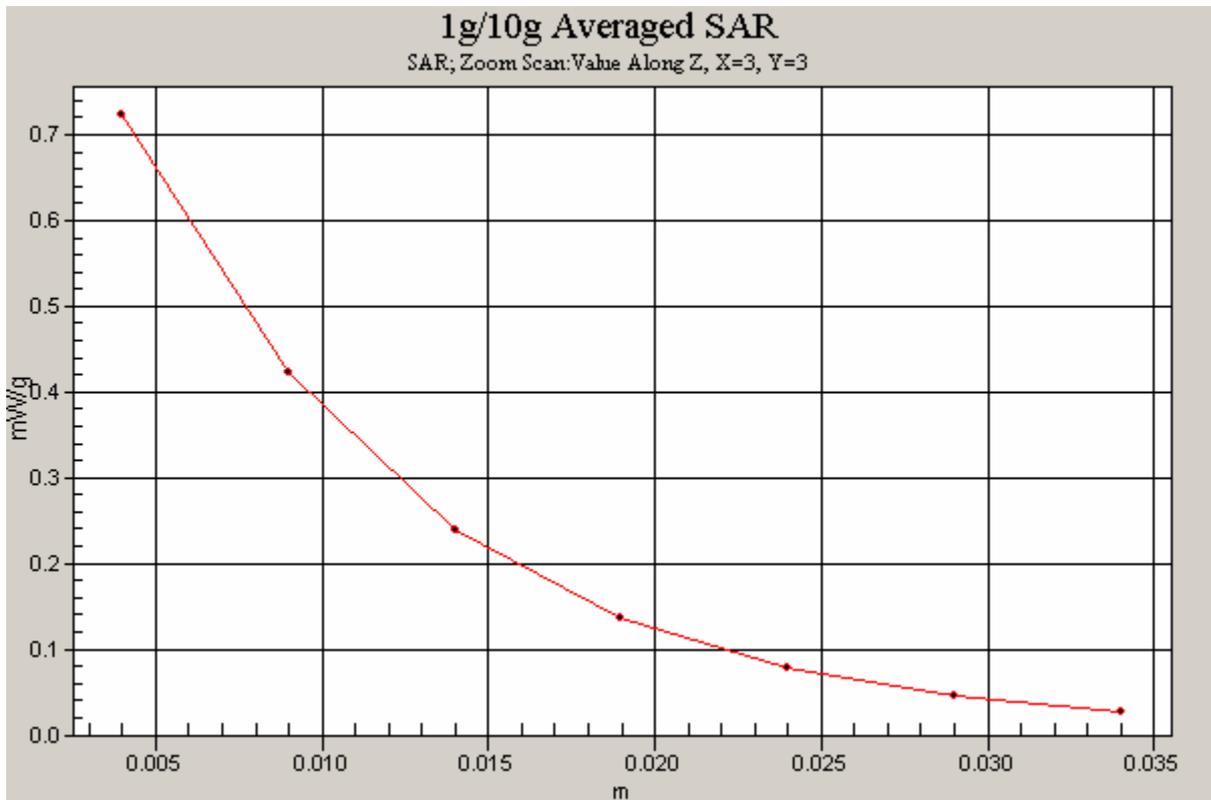


Figure 81 Z-Scan at power reference point (Right Hand Tilt 15° GSM 1900 Channel 661)

GSM 1900 Right Tilt Low

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 40$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn679;

Right Tilt Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.839 mW/g

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

Reference Value = 22.1 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.714 mW/g; SAR(10 g) = 0.373 mW/g

Maximum value of SAR (measured) = 0.815 mW/g

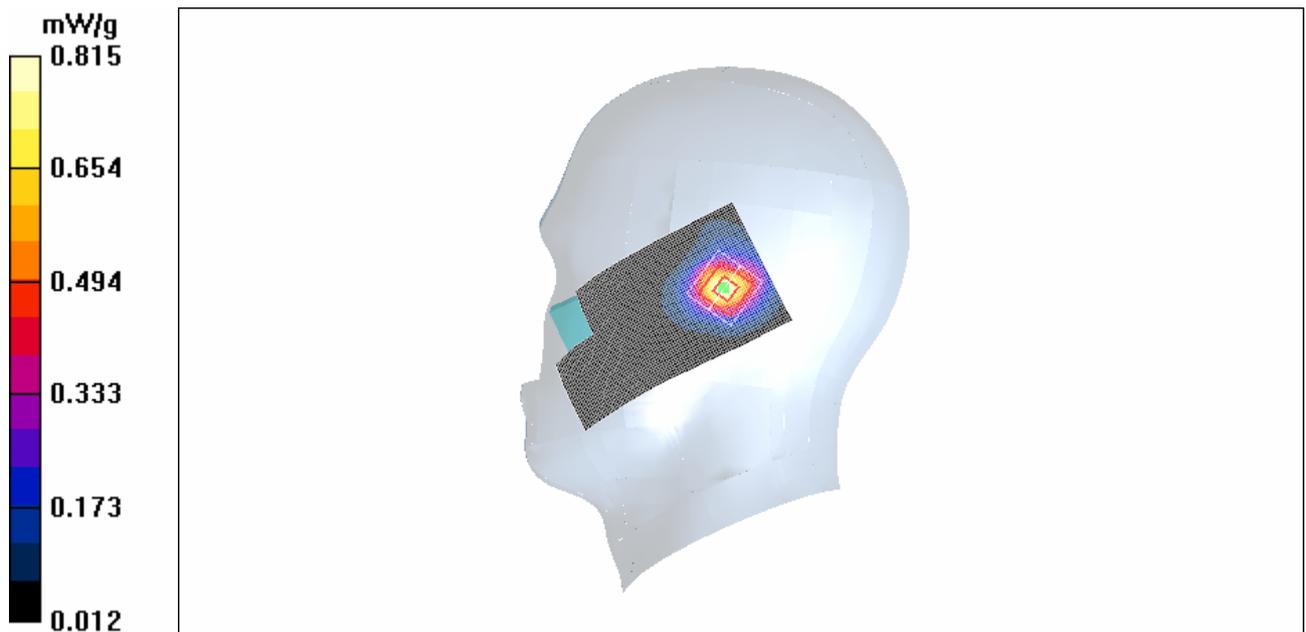


Figure 82 Right Hand Tilt 15° GSM 1900 Channel 512

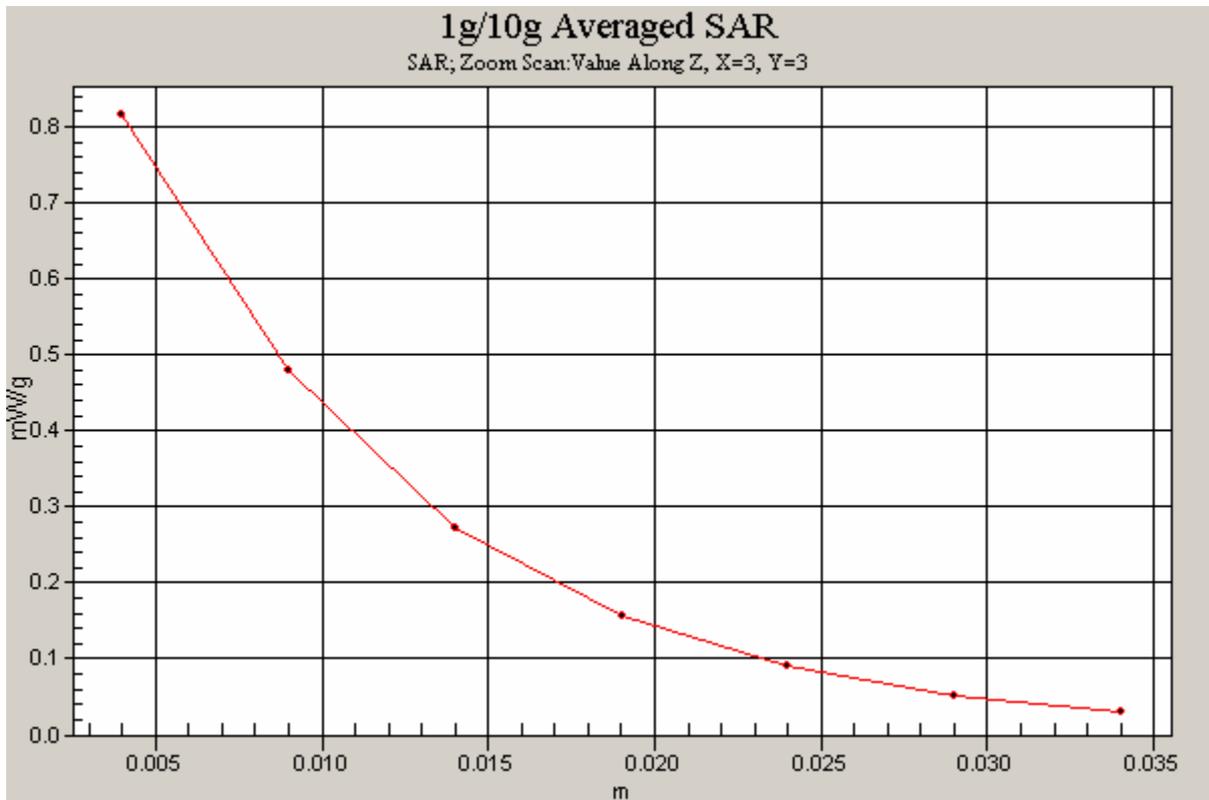


Figure 83 Z-Scan at power reference point (Right Hand Tilt 15° GSM 1900 Channel 512)

GSM 1900 Towards Ground High

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards ground,High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.362 mW/g

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

Reference Value = 15.2 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (measured) = 0.341 mW/g

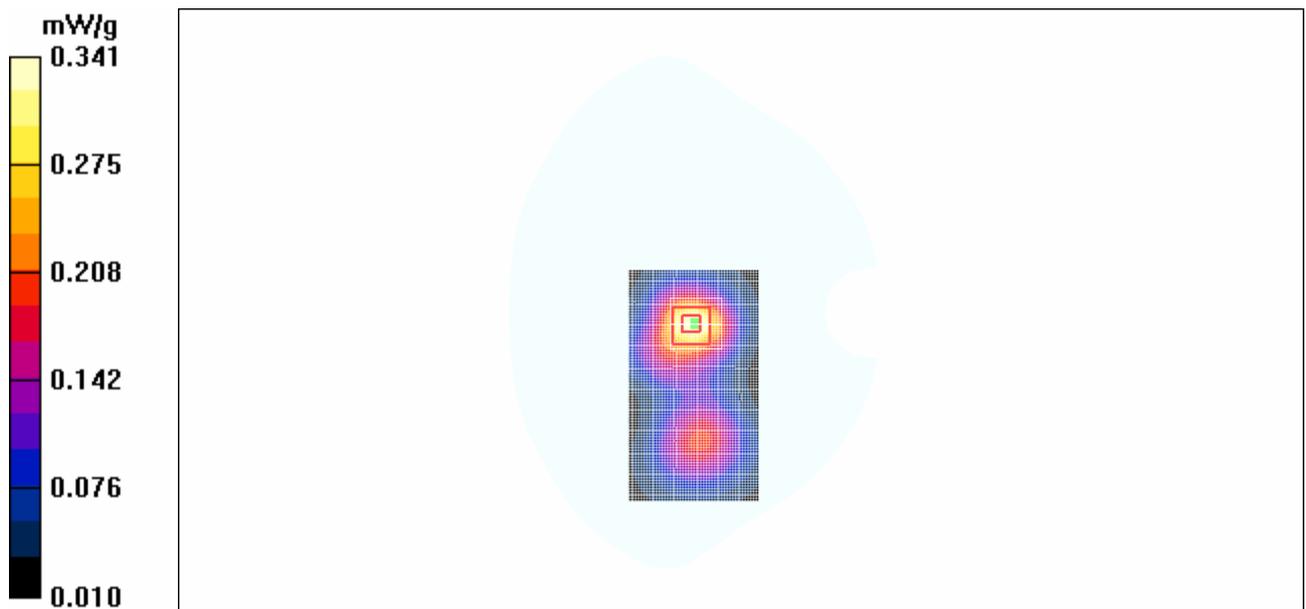


Figure 84 Body, Towards Ground, GSM 1900 Channel 810

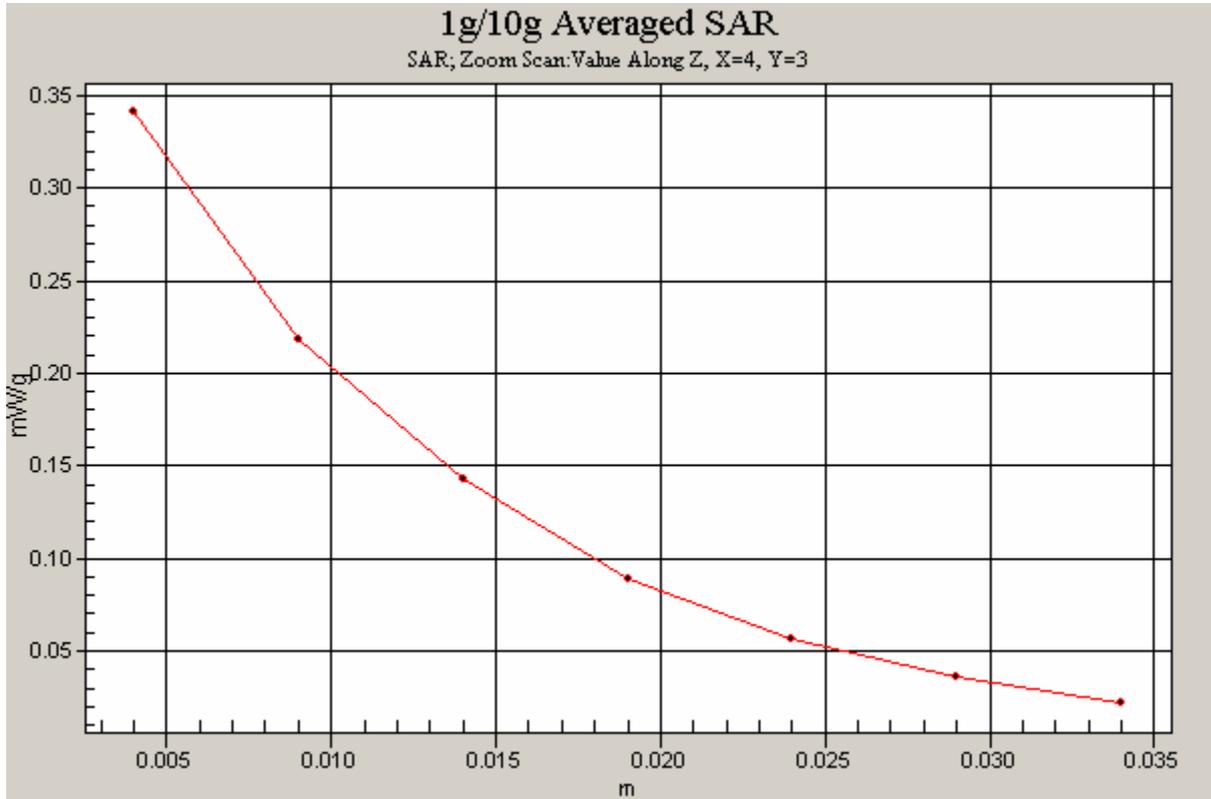


Figure 85 Z-Scan at power reference point (Body, Towards Ground, GSM 1900 Channel 810)

GSM 1900 Towards Ground Middle

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards ground, Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.395 mW/g

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

Reference Value = 14.8 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.533 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.211 mW/g

Maximum value of SAR (measured) = 0.378 mW/g

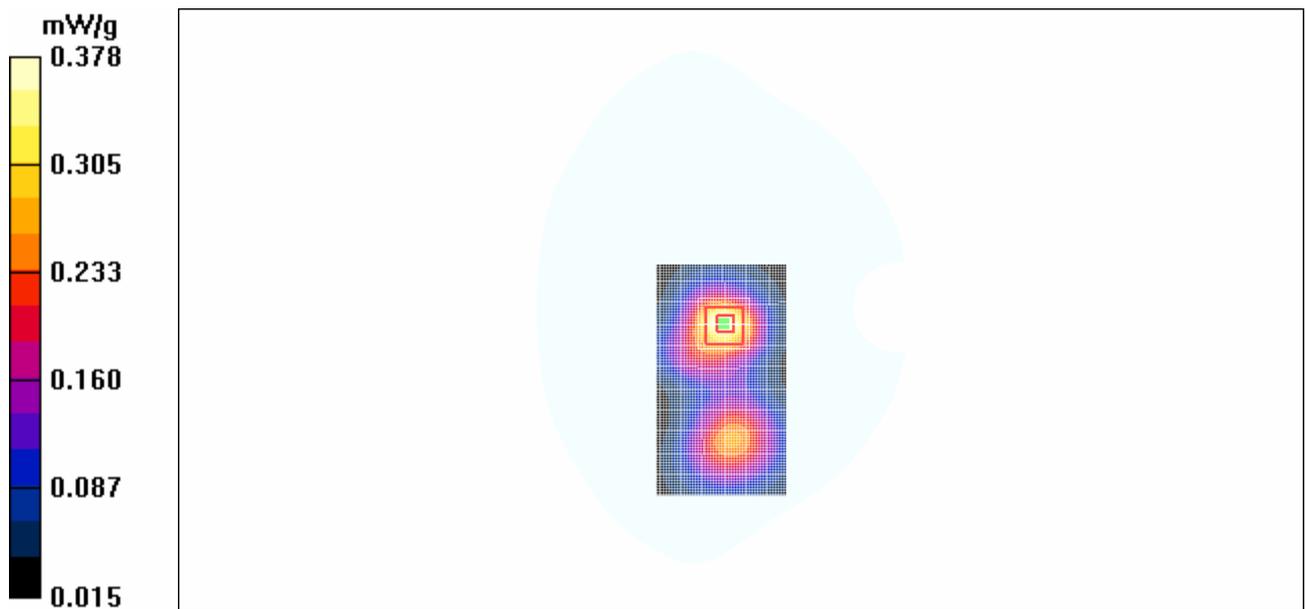


Figure 86 Body, Towards Ground, GSM 1900 Channel 661

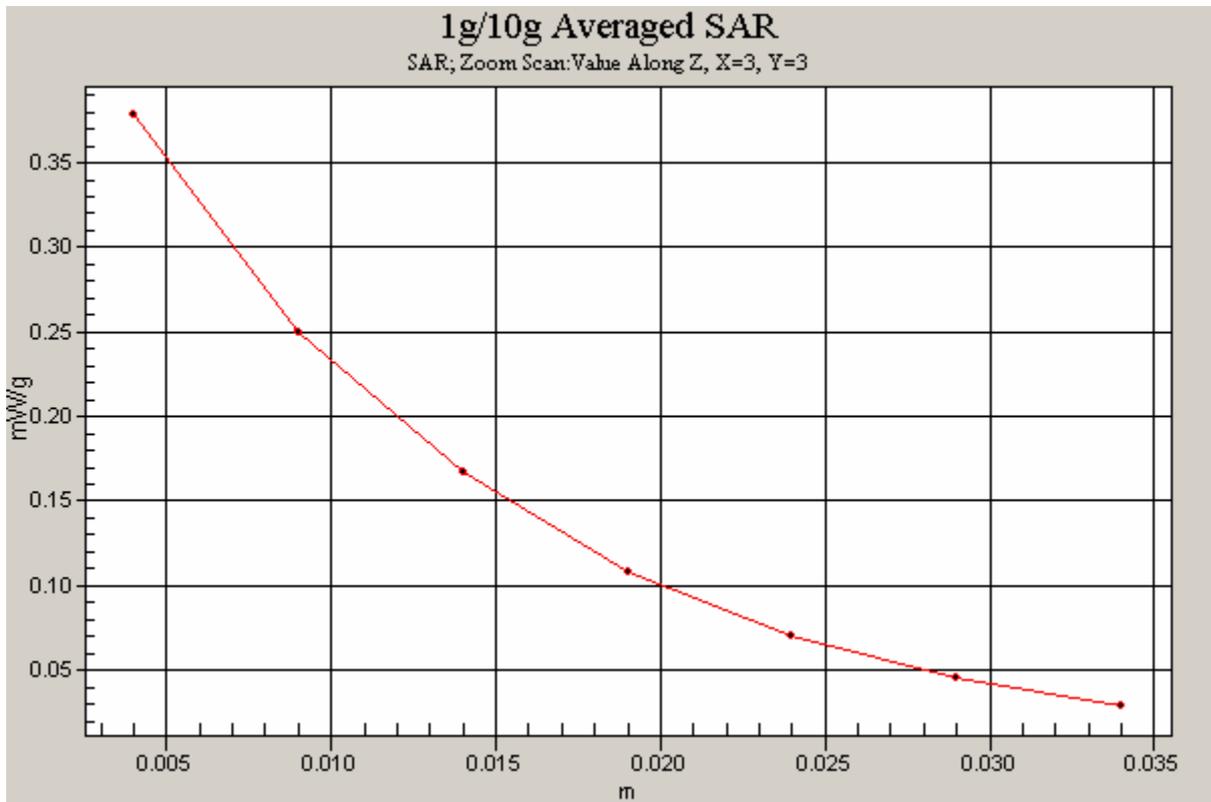


Figure 87 Z-Scan at power reference point (Body, Towards Ground, GSM 1900 Channel 661)

GSM 1900 Towards Ground Low

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards ground,Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.403 mW/g

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

Reference Value = 14.9 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.215 mW/g

Maximum value of SAR (measured) = 0.381 mW/g

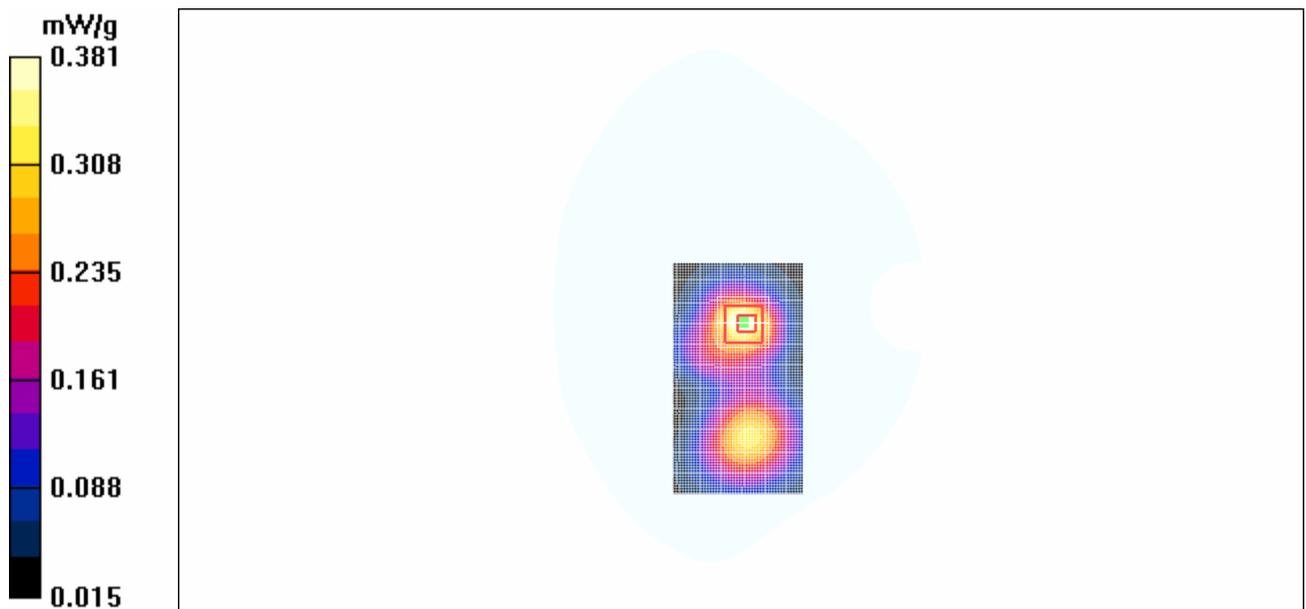


Figure 88 Body, Towards Ground, GSM 1900 Channel 512

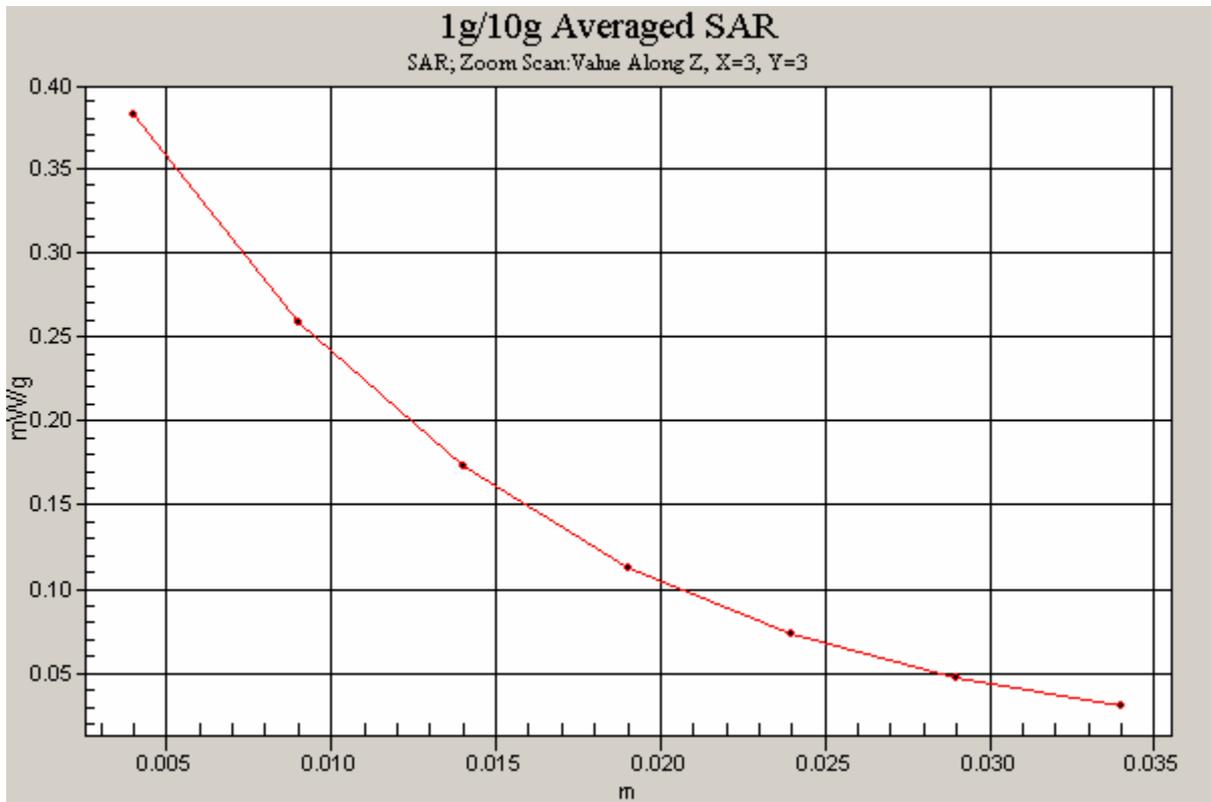


Figure 89 Z-Scan at power reference point (Body, Towards Ground, GSM 1900 Channel 512)

GSM 1900 Towards Phantom High

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards phantom, High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.149 mW/g

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

Reference Value = 8.88 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.140 mW/g

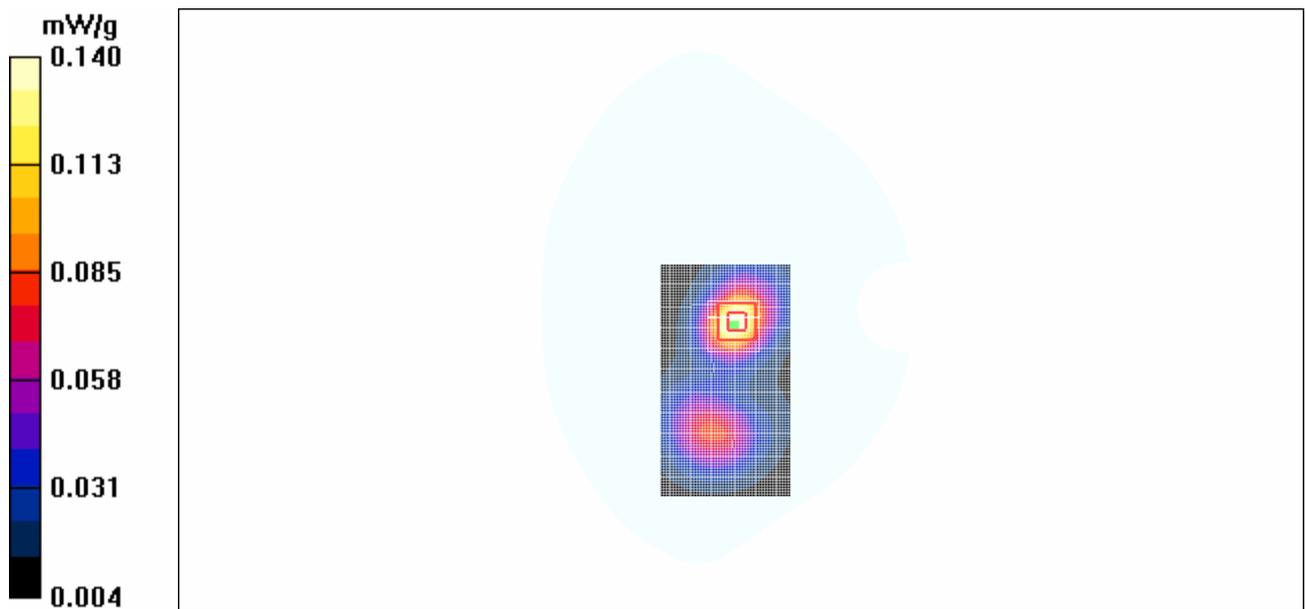


Figure 90 Body, Towards Phantom, GSM 1900 Channel 810

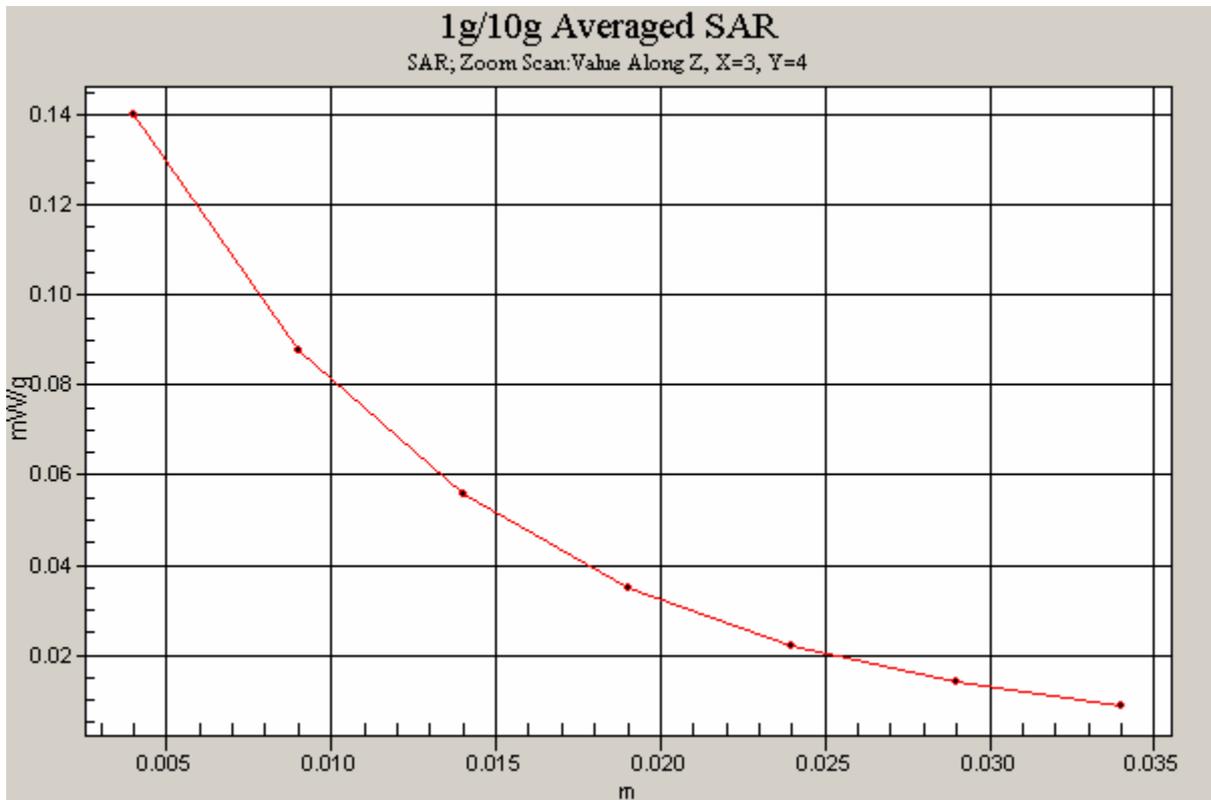


Figure 91 Z-Scan at power reference point (Body, Towards Phantom, GSM 1900 Channel 810)

GSM 1900 Towards Phantom Middle

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards phantom, Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.179 mW/g

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

Reference Value = 9.76 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.169 mW/g

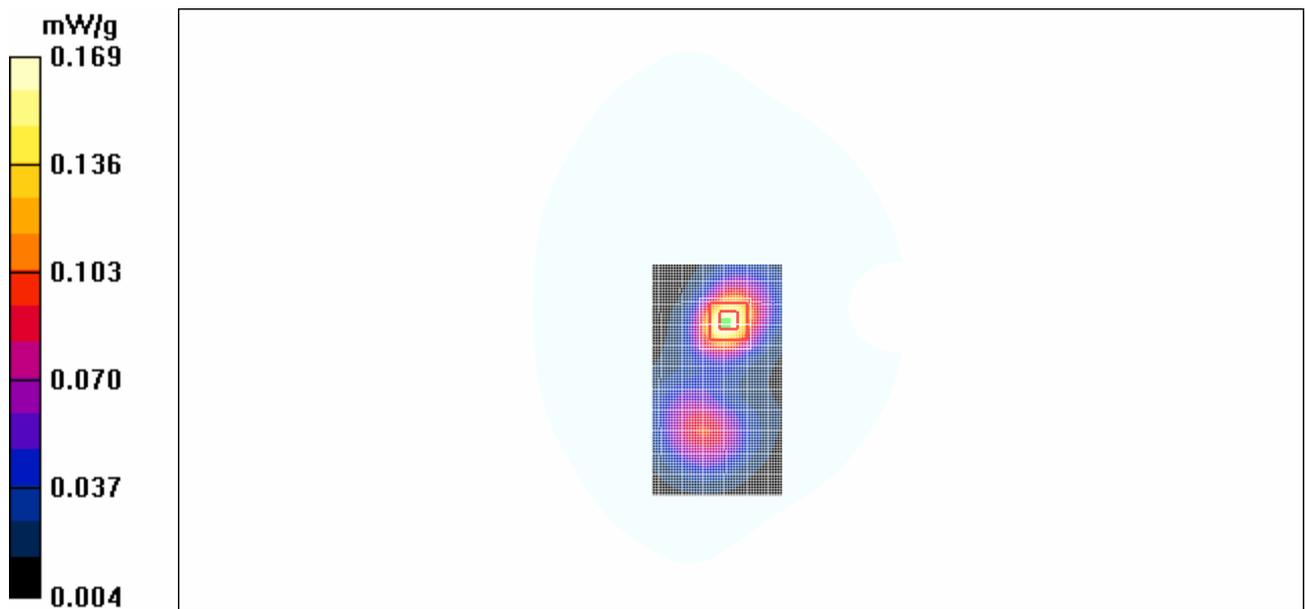


Figure 92 Body, Towards Phantom, GSM 1900 Channel 661

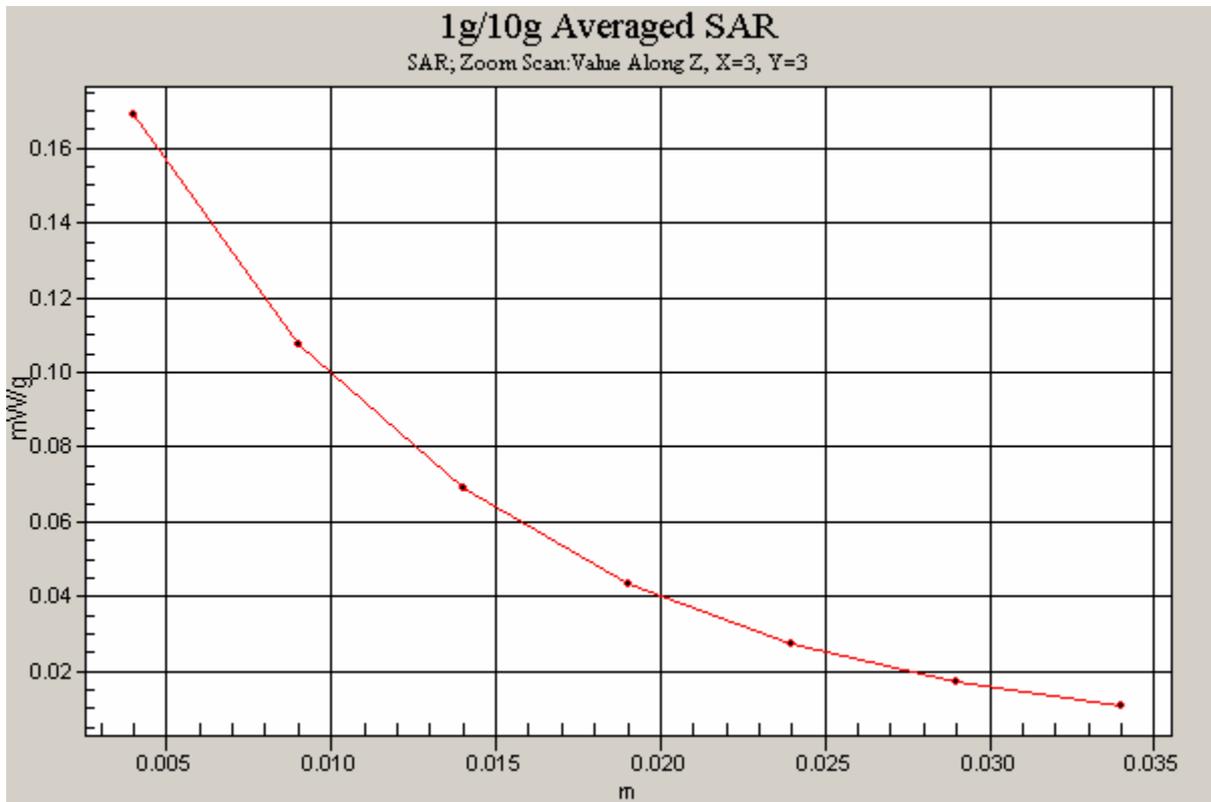


Figure 93 Z-Scan at power reference point (Body, Towards Phantom, GSM 1900 Channel 661)

GSM 1900 Towards Phantom Low

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards phantom, Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.186 mW/g

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

Reference Value = 10.0 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.176 mW/g

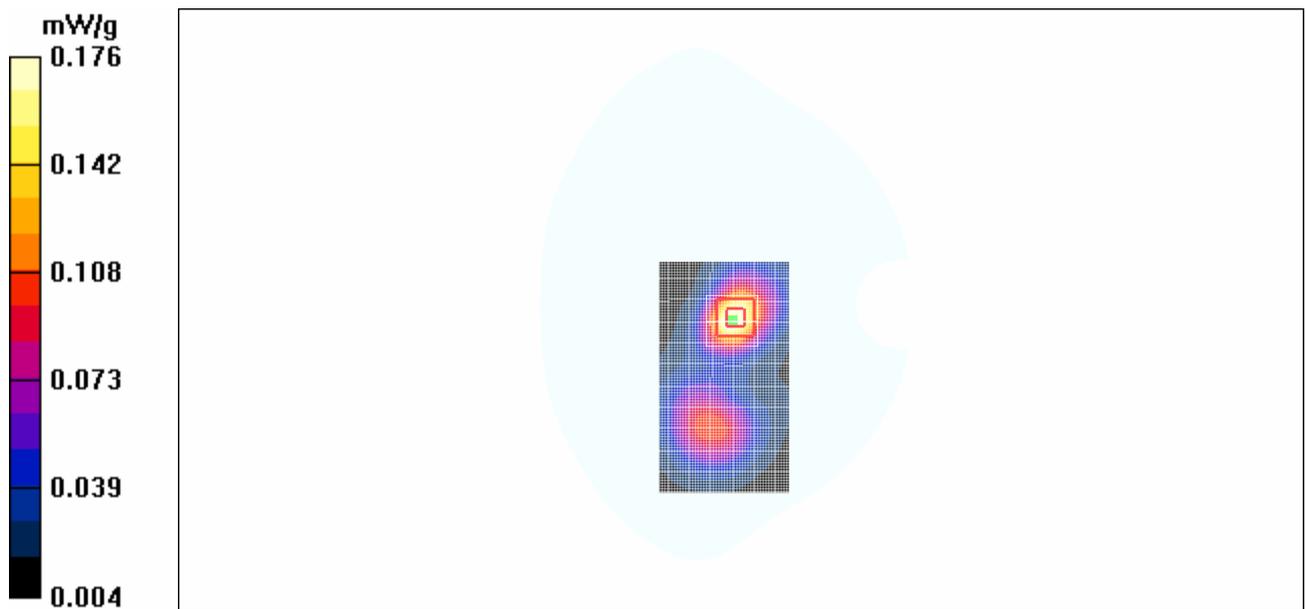


Figure 94 Body, Towards Phantom, GSM 1900 Channel 512

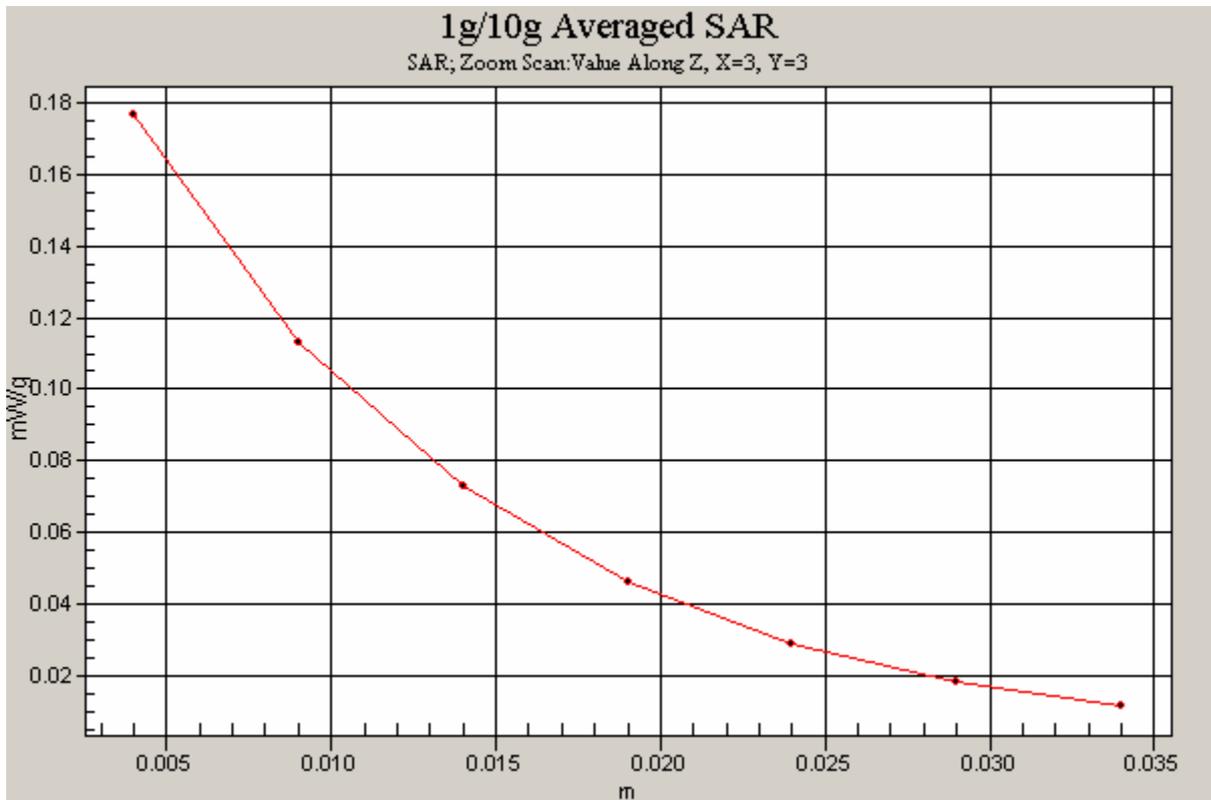


Figure 95 Z-Scan at power reference point (Body, Towards Phantom, GSM 1900 Channel 512)

GSM 1900 Earphone Towards Ground Low

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards ground,Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.443 mW/g

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

Reference Value = 16.0 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.237 mW/g

Maximum value of SAR (measured) = 0.419 mW/g

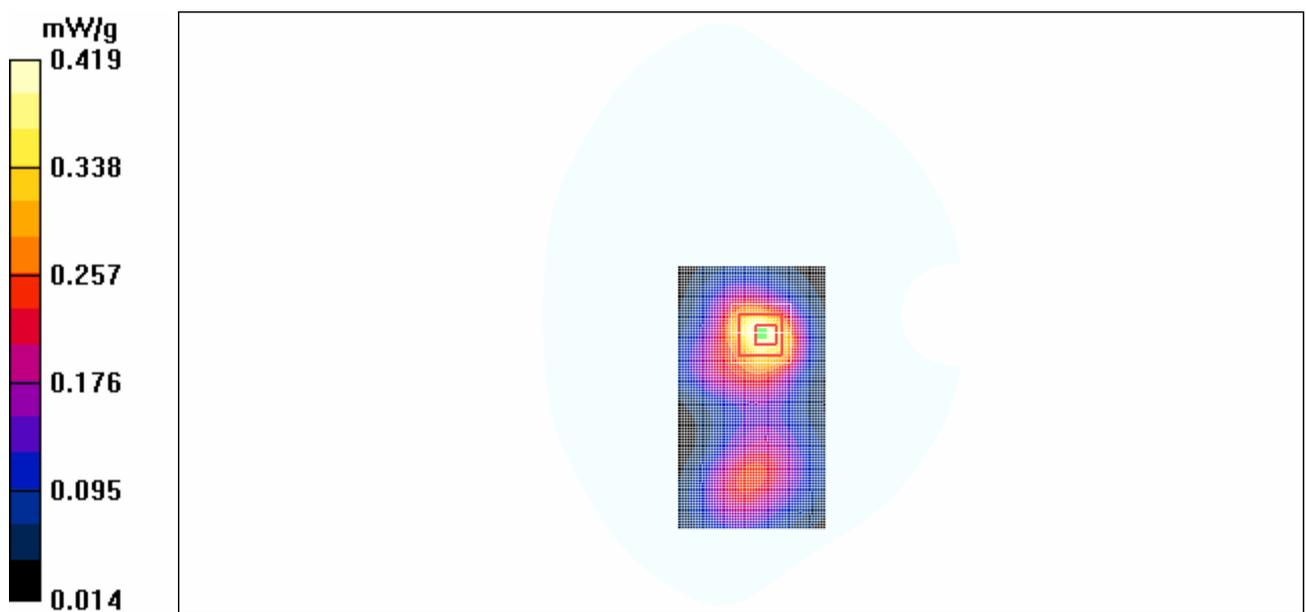


Figure 96 Body with Earphone, Towards Ground, GSM 1900, Channel 512

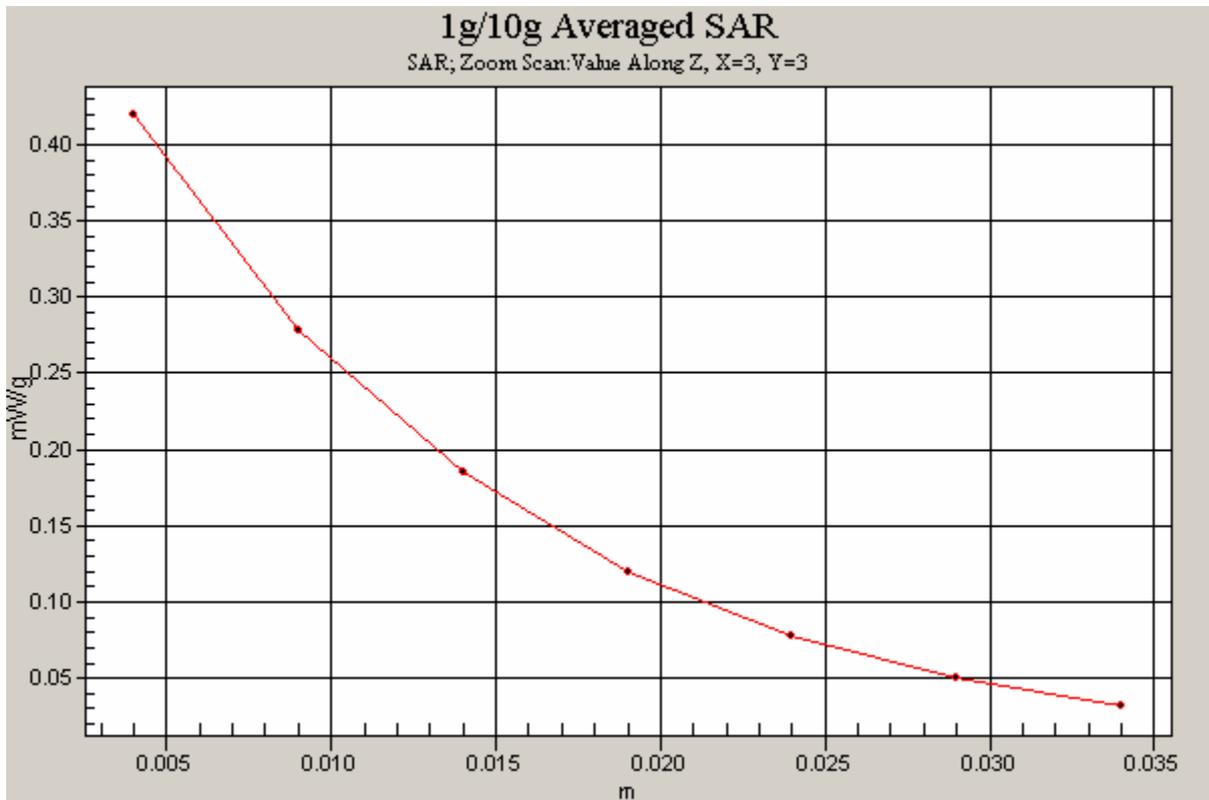


Figure 97 Z-Scan at power reference point (Body with Earphone, Towards Ground, GSM 1900, Channel 512)

GSM 1900 Bluetooth Earphone Towards Ground Low

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards ground,Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.420 mW/g

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

Reference Value = 16.9 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.593 W/kg

SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.421 mW/g

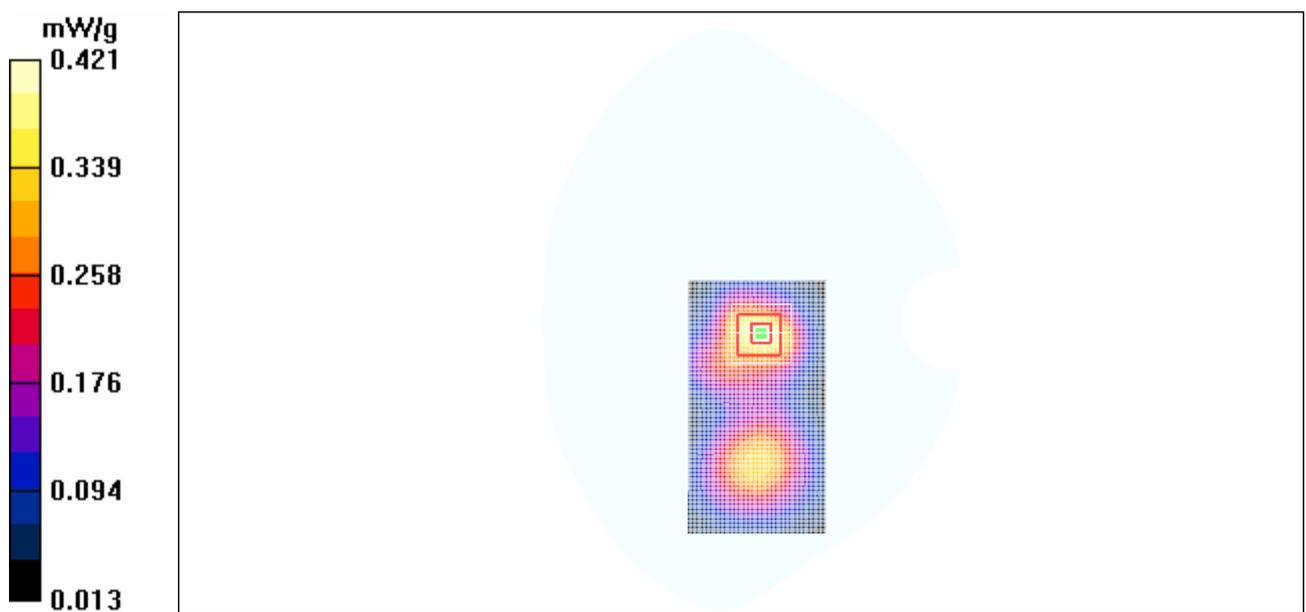


Figure 98 Body with Bluetooth earphone, Towards Ground, GSM 1900, Channel 512

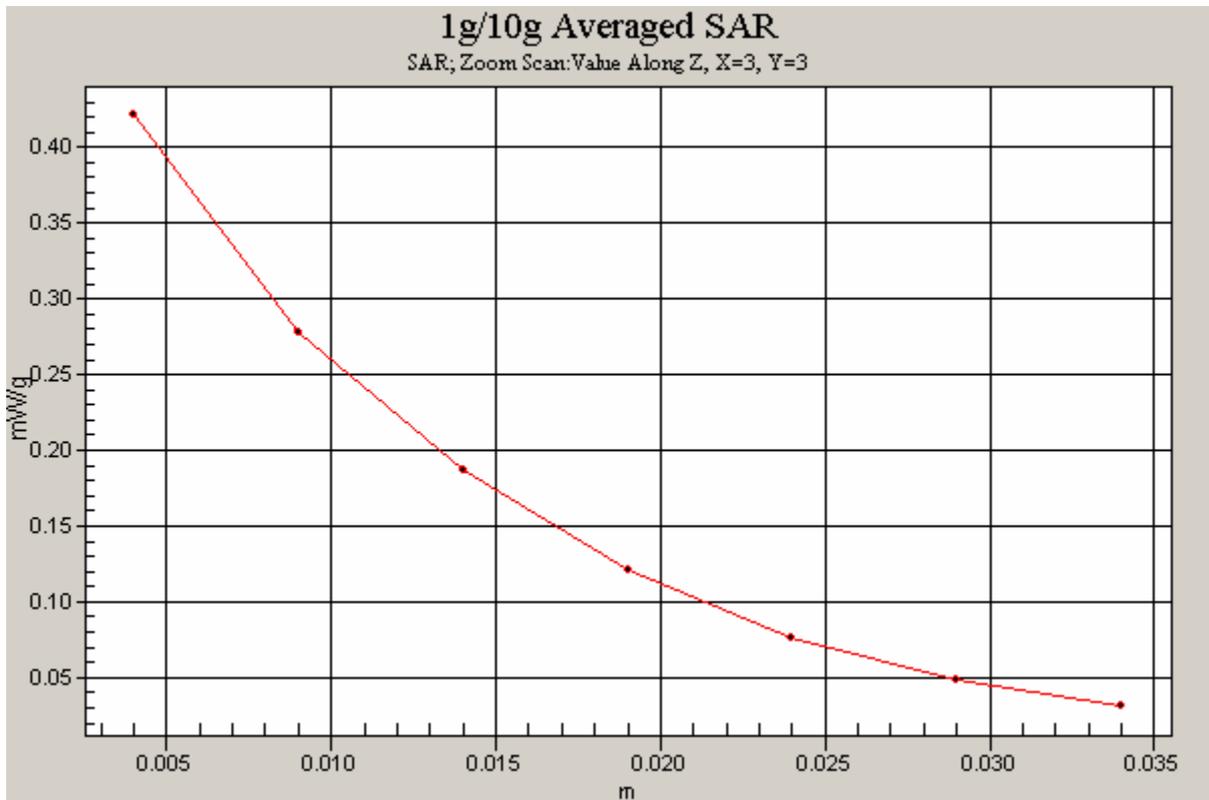


Figure 99 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, GSM 1900, Channel 512)

GSM 1900 GPRS Towards Ground High

Communication System: GSM 1900+GPRS(2Up); Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards ground,High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.809 mW/g

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

Reference Value = 21.0 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.729 mW/g; SAR(10 g) = 0.437 mW/g

Maximum value of SAR (measured) = 0.803 mW/g

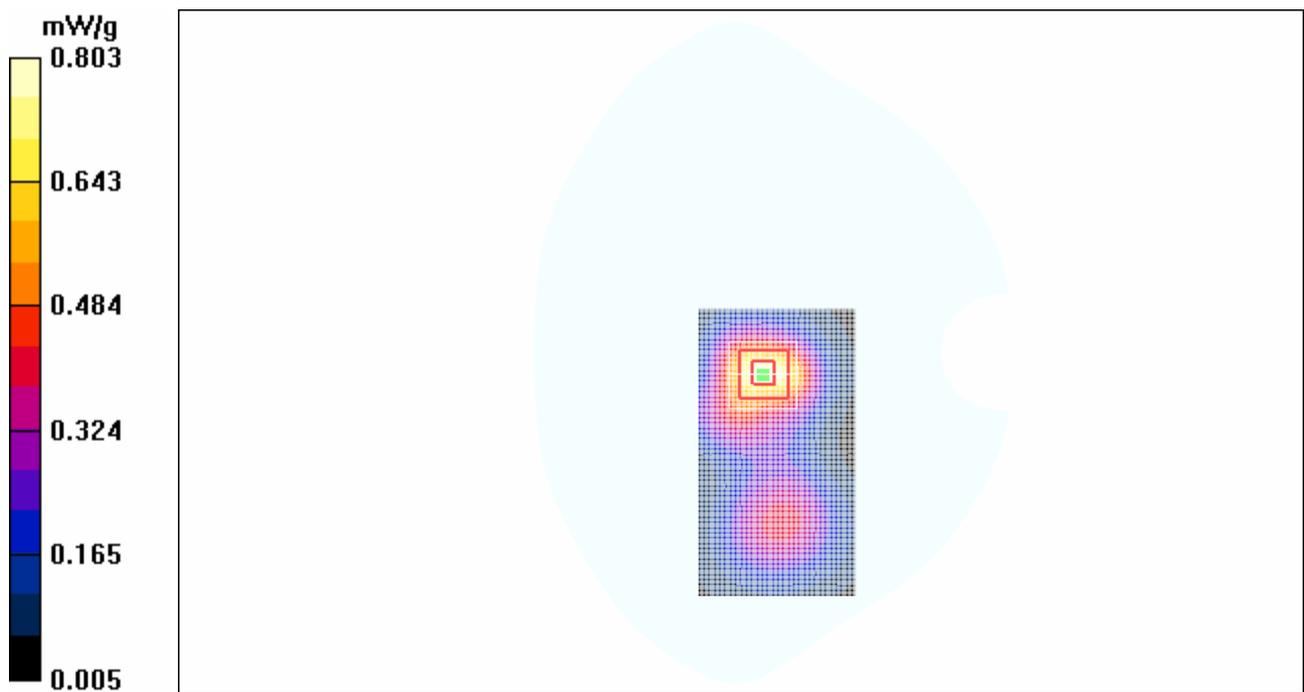


Figure 100 Body, Towards Ground, GSM 1900 GPRS, Channel 810

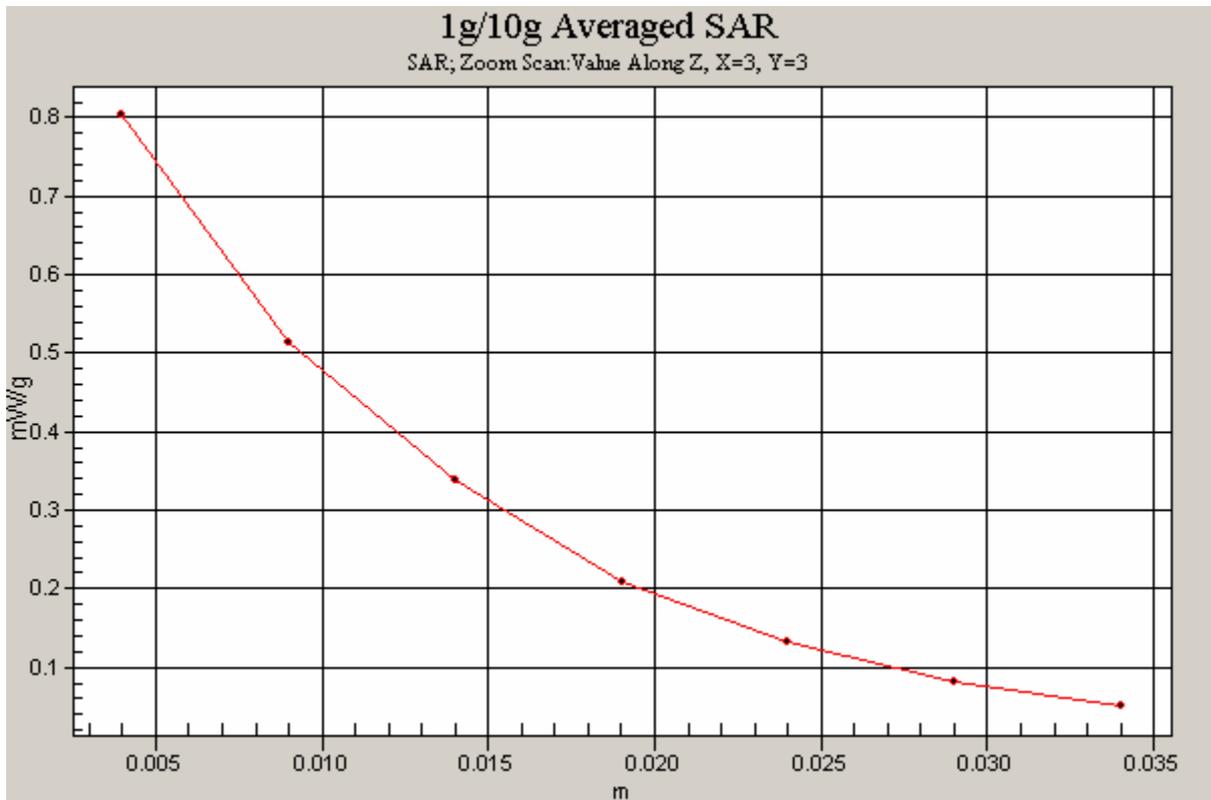


Figure 101 Z-Scan at power reference point (Body, Towards Ground, GSM 1900 GPRS, Channel 810)

GSM 1900 GPRS Towards Ground Middle

Communication System: GSM 1900+GPRS(2Up); Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards ground,Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.880 mW/g

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

Reference Value = 22.3 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.479 mW/g

Maximum value of SAR (measured) = 0.865 mW/g

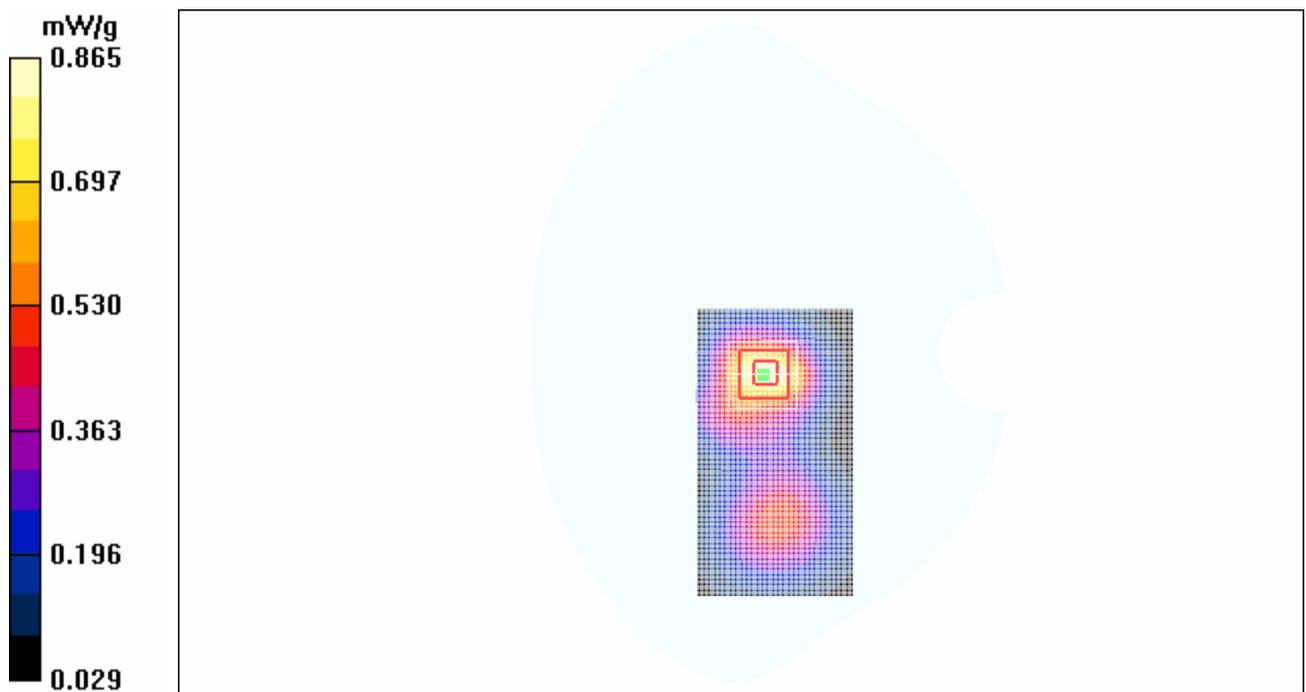


Figure 102 Body, Towards Ground, GSM 1900 GPRS Channel 661

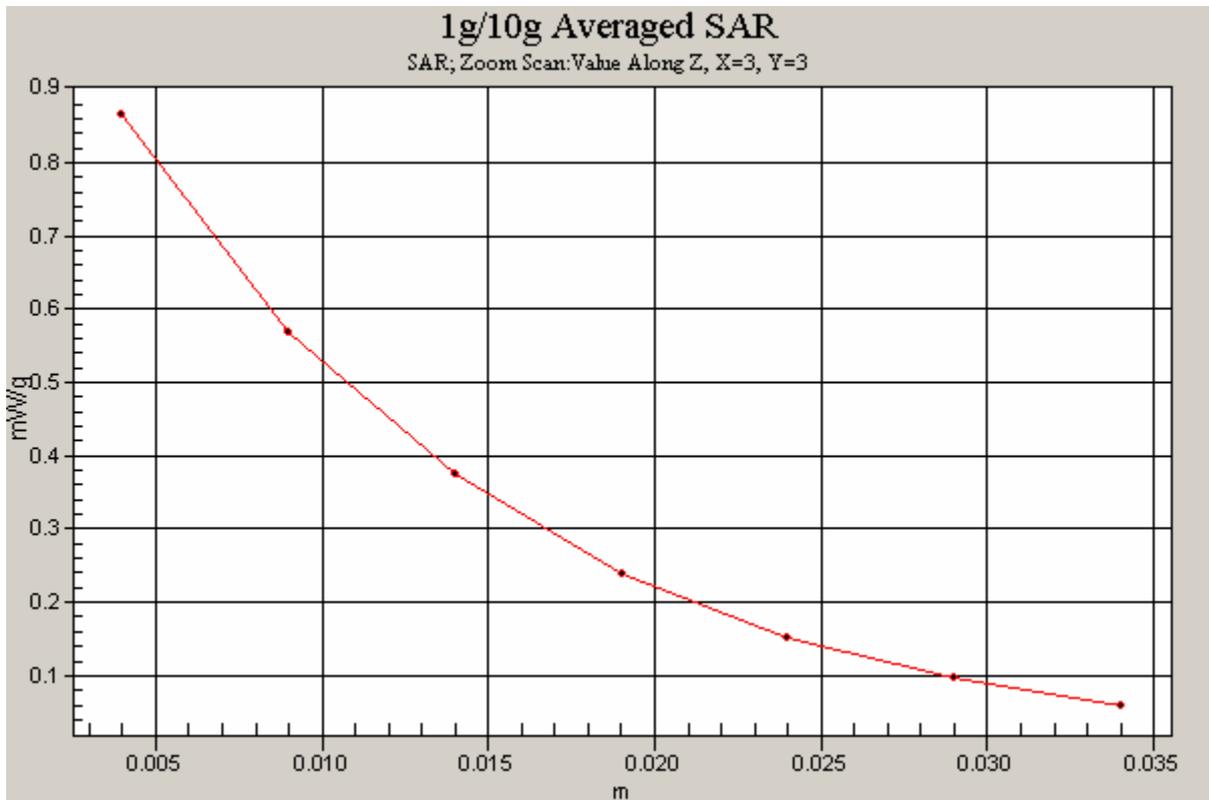


Figure 103 Z-Scan at power reference point (Body, Towards Ground, GSM 1900 GPRS Channel 661)

GSM 1900 GPRS Towards Ground Low

Communication System: GSM 1900+GPRS(2Up); Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards ground,Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.889 mW/g

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

Reference Value = 22.4 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.798 mW/g; SAR(10 g) = 0.479 mW/g

Maximum value of SAR (measured) = 0.874 mW/g

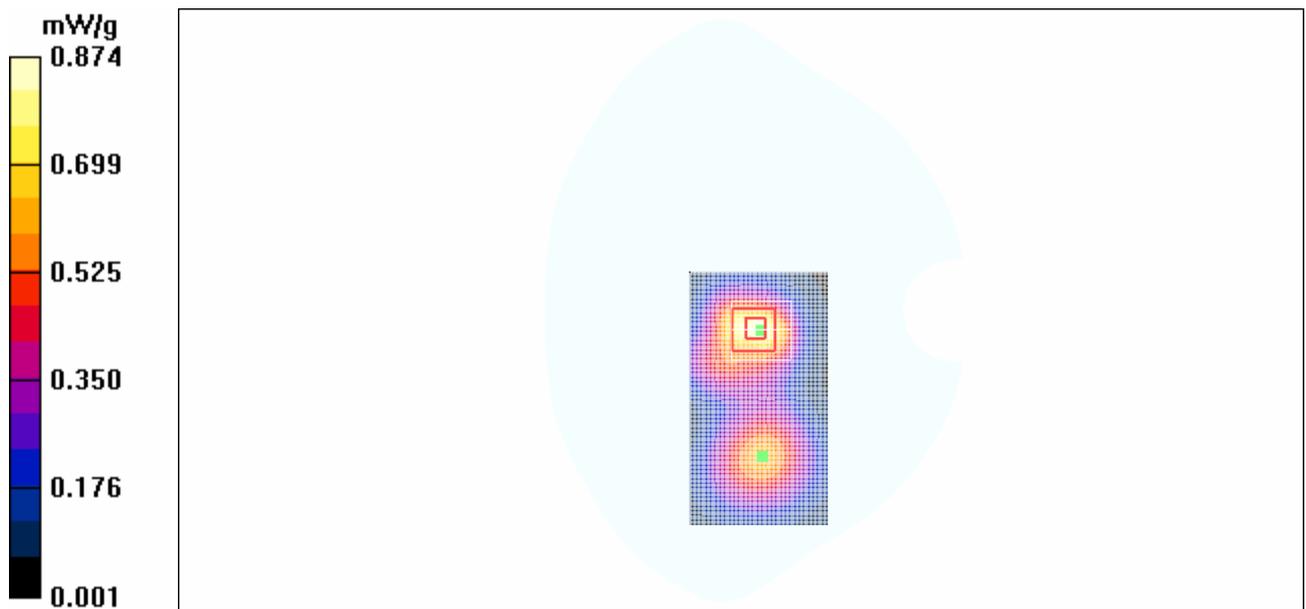


Figure 104 Body, Towards Ground, GSM 1900 GPRS Channel 512

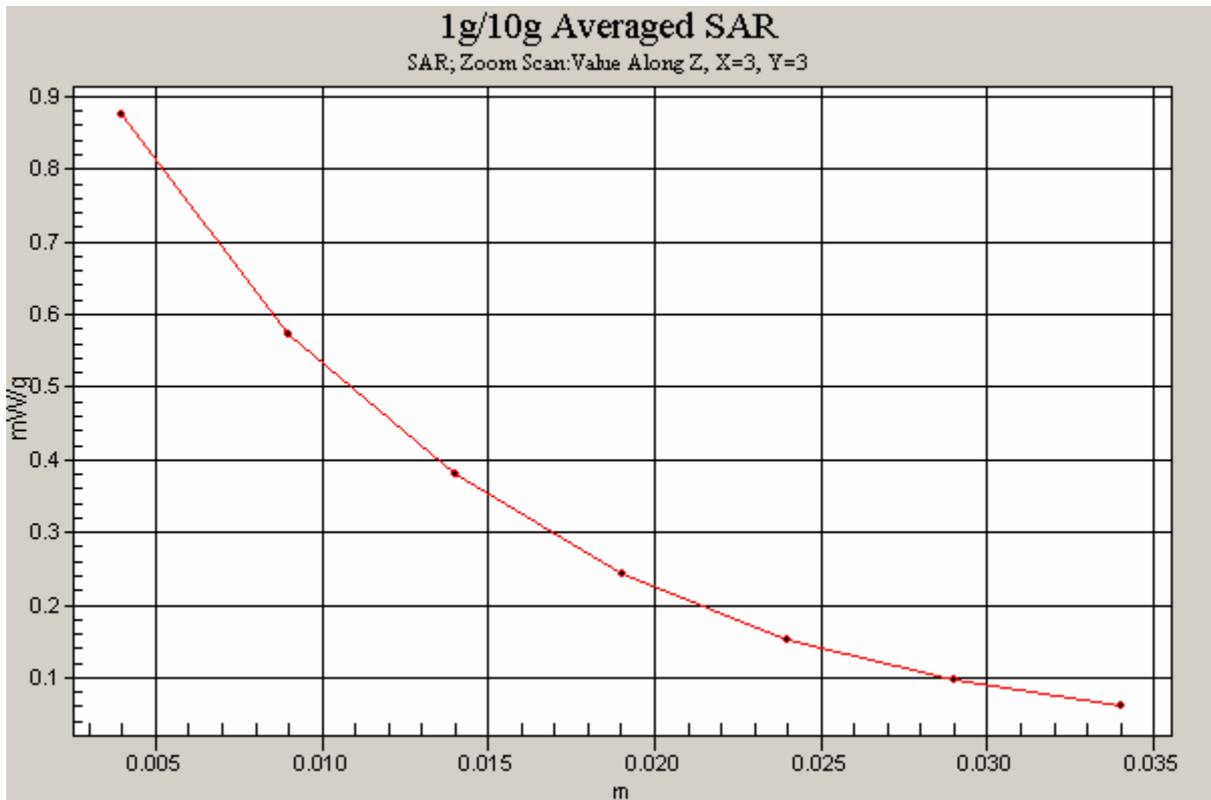


Figure 105 Z-Scan at power reference point (Body, Towards Ground, GSM 1900 GPRS Channel 512)

GSM 1900 GPRS Towards Phantom High

Communication System: GSM 1900+GPRS(2Up); Frequency: 1909.8 MHz;Duty Cycle: 1:4

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards phantom,High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.277 mW/g

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

Reference Value = 12.2 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 0.409 W/kg

SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.271 mW/g

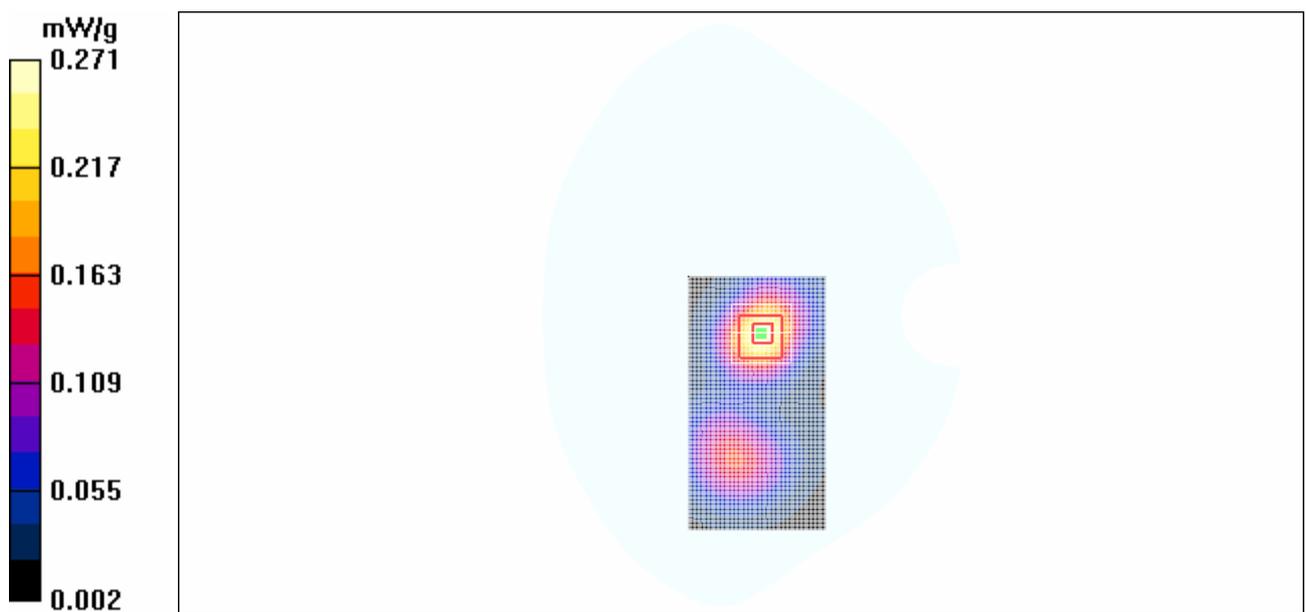


Figure 106 Body, Towards Phantom, GSM 1900 GPRS, Channel 810

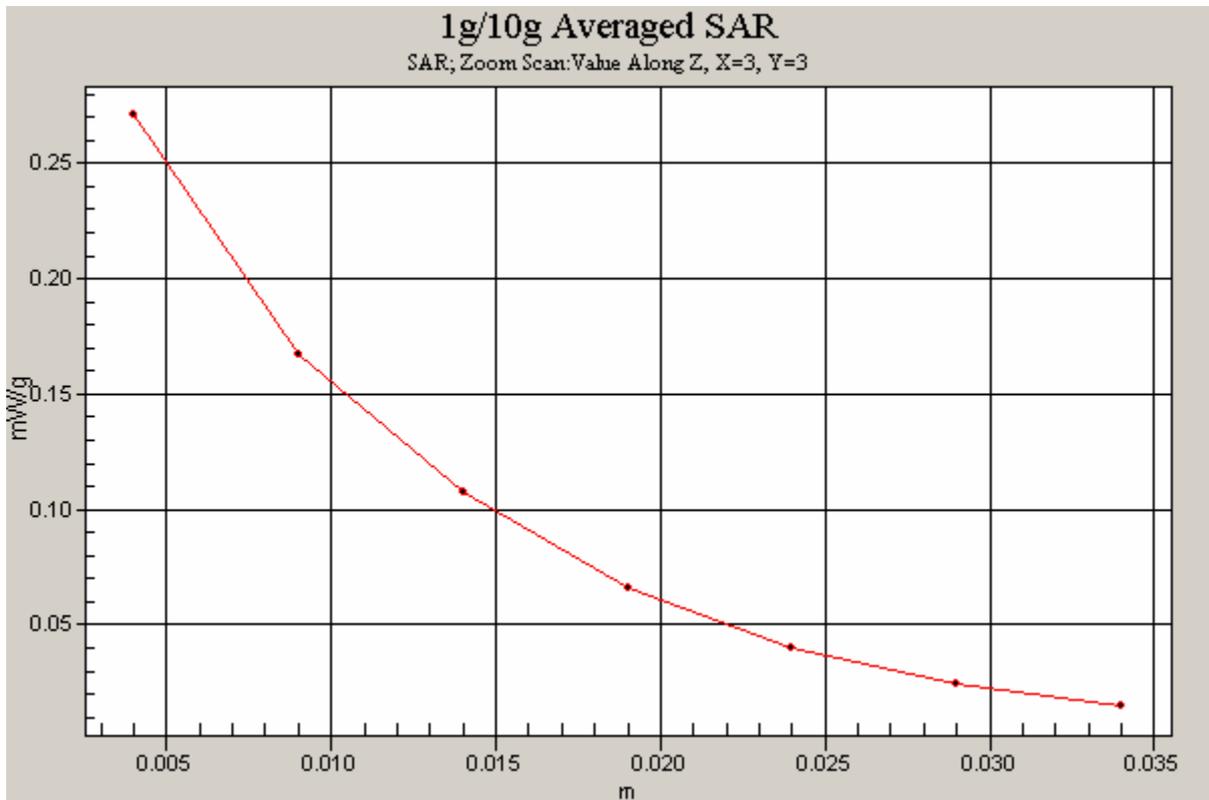


Figure 107 Z-Scan at power reference point (Body, Towards Phantom, GSM 1900 GPRS, Channel 810)

GSM 1900 GPRS Towards Phantom Middle

Communication System: GSM 1900+GPRS(2Up); Frequency: 1880 MHz;Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards phantom,Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.315 mW/g

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

Reference Value = 12.5 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.168 mW/g

Maximum value of SAR (measured) = 0.319 mW/g

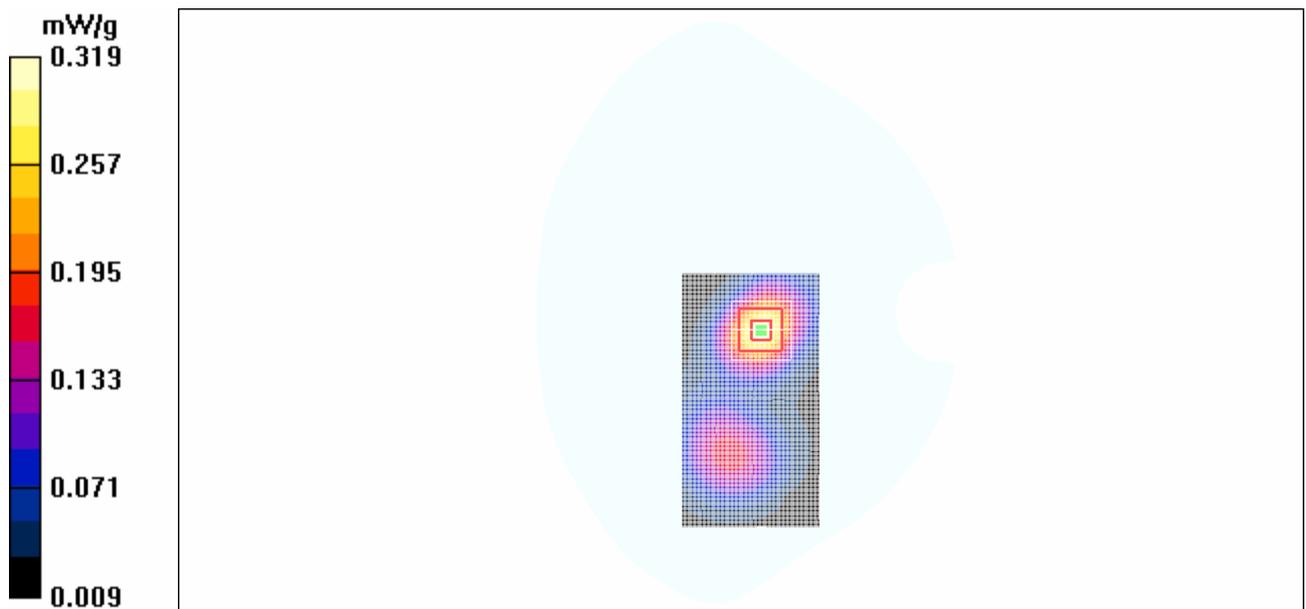


Figure 108 Body, Towards Phantom, GSM 1900 GPRS Channel 661

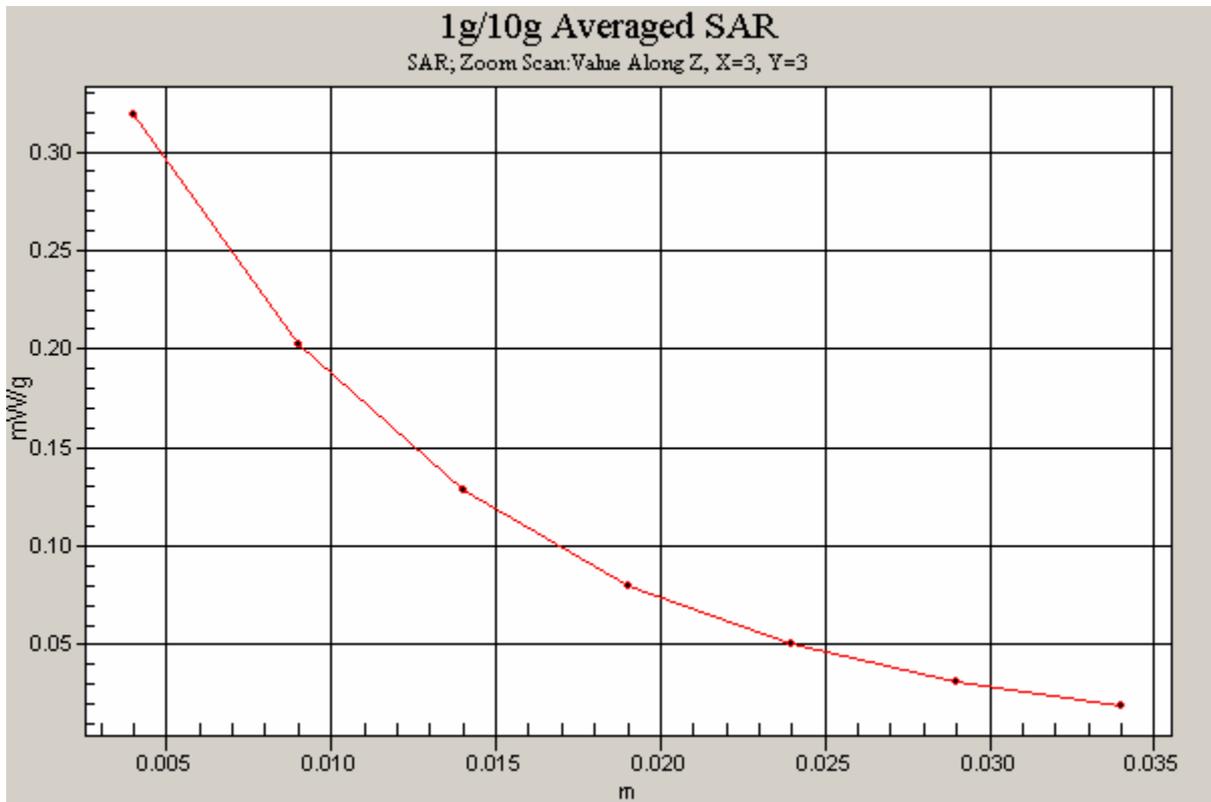


Figure 109 Z-Scan at power reference point (Body, Towards Phantom, GSM 1900 GPRS Channel 661)

GSM 1900 GPRS Towards Phantom Low

Communication System: GSM 1900+GPRS(2Up); Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 53.2$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(4.64, 4.64, 4.64);

Electronics: DAE4 Sn679;

Towards phantom, Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.333 mW/g

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

Reference Value = 13.1 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.698 W/kg

SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.324 mW/g

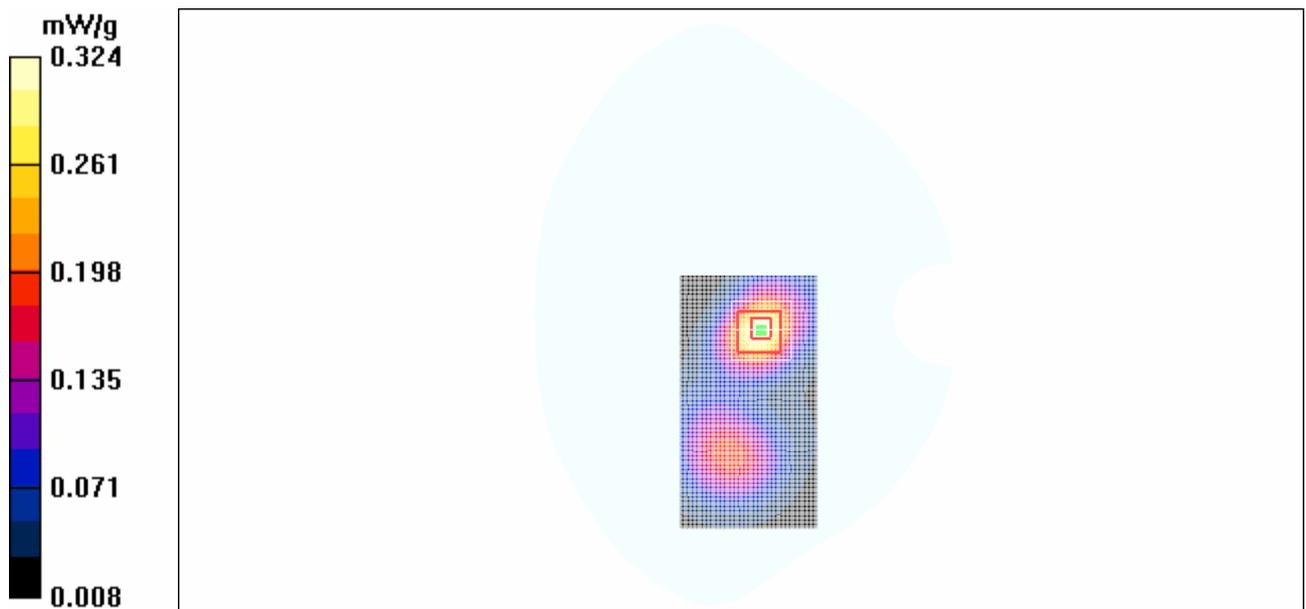


Figure 110 Body, Towards Phantom, GSM 1900 GPRS Channel 512

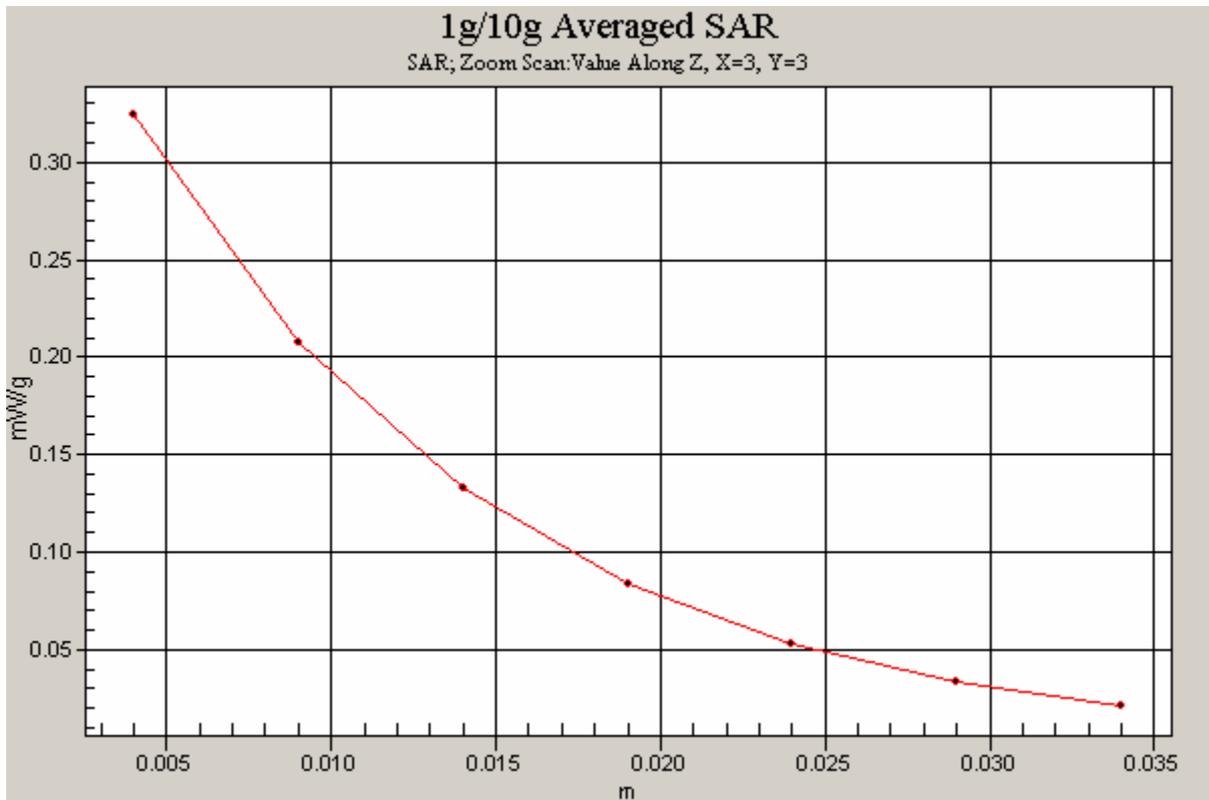


Figure 111 Z-Scan at power reference point (Body, Towards Phantom, GSM 1900 GPRS Channel 512)

WCDMA Band V Left Cheek High

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn679;

Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.863 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.3 V/m; Power Drift = -0.113 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.803 mW/g; SAR(10 g) = 0.560 mW/g
Maximum value of SAR (measured) = 0.852 mW/g

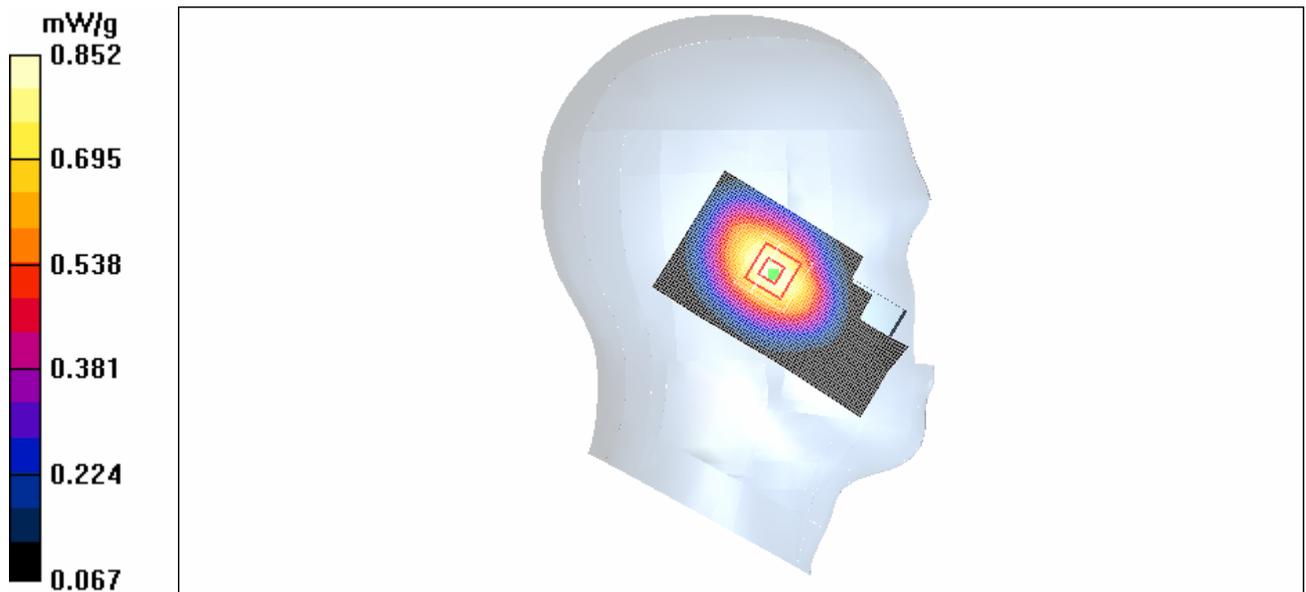


Figure 112 Left Hand Touch Cheek WCDMA Band V Channel 4233

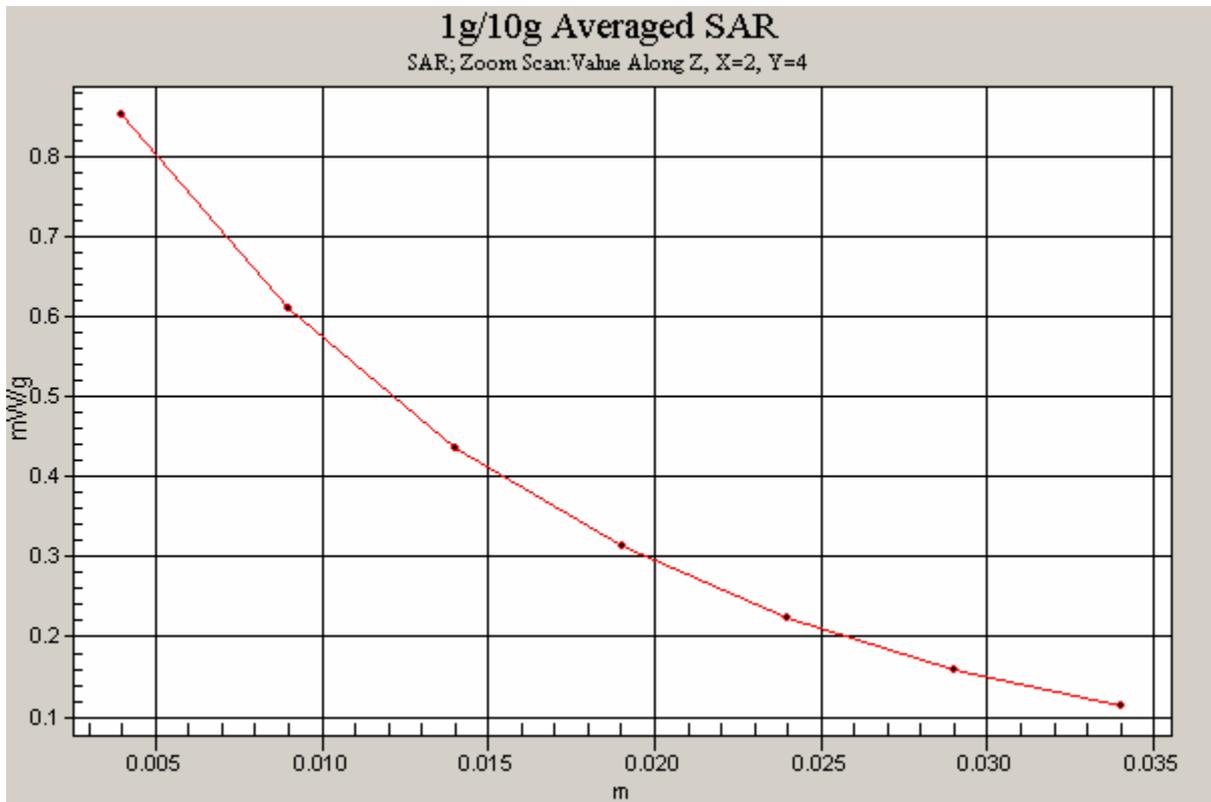


Figure 113 Z-Scan at power reference point (Left Hand Touch Cheek WCDMA Band V Channel 4233)

WCDMA Band V Left Cheek Middle

Communication System: WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.938$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE4 Sn679;

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.736 mW/g

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

Reference Value = 22.2 V/m; Power Drift = 0.120 dB

Peak SAR (extrapolated) = 0.927 W/kg

SAR(1 g) = 0.684 mW/g; SAR(10 g) = 0.479 mW/g

Maximum value of SAR (measured) = 0.732 mW/g

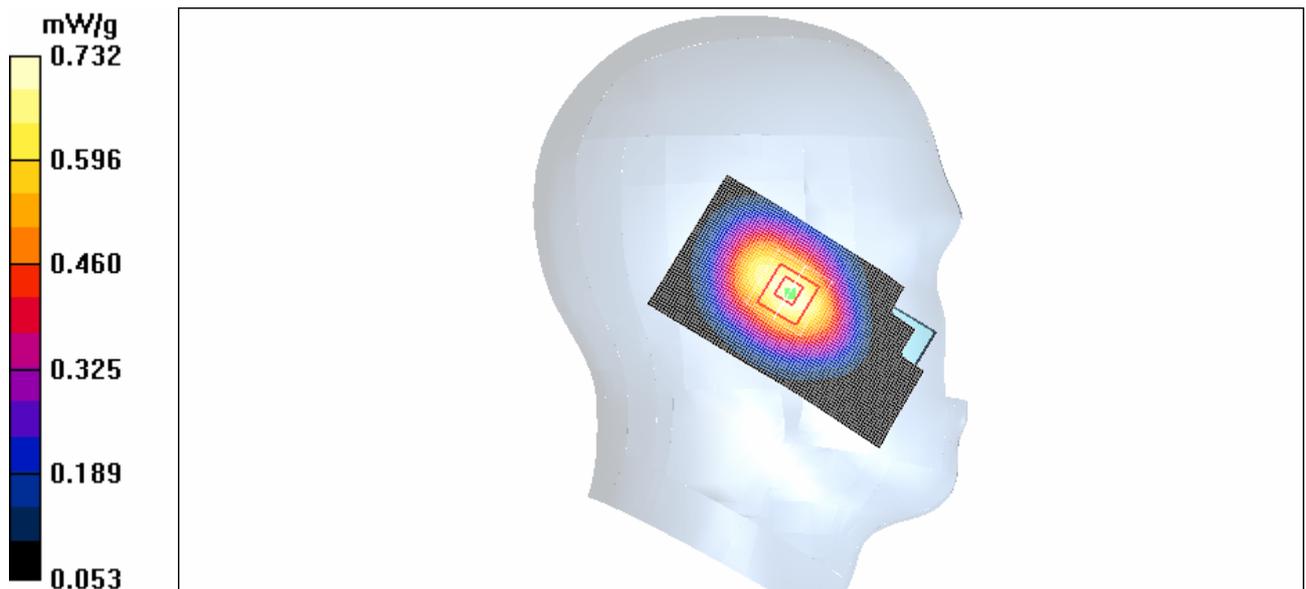


Figure 114 Left Hand Touch Cheek WCDMA Band V Channel 4182

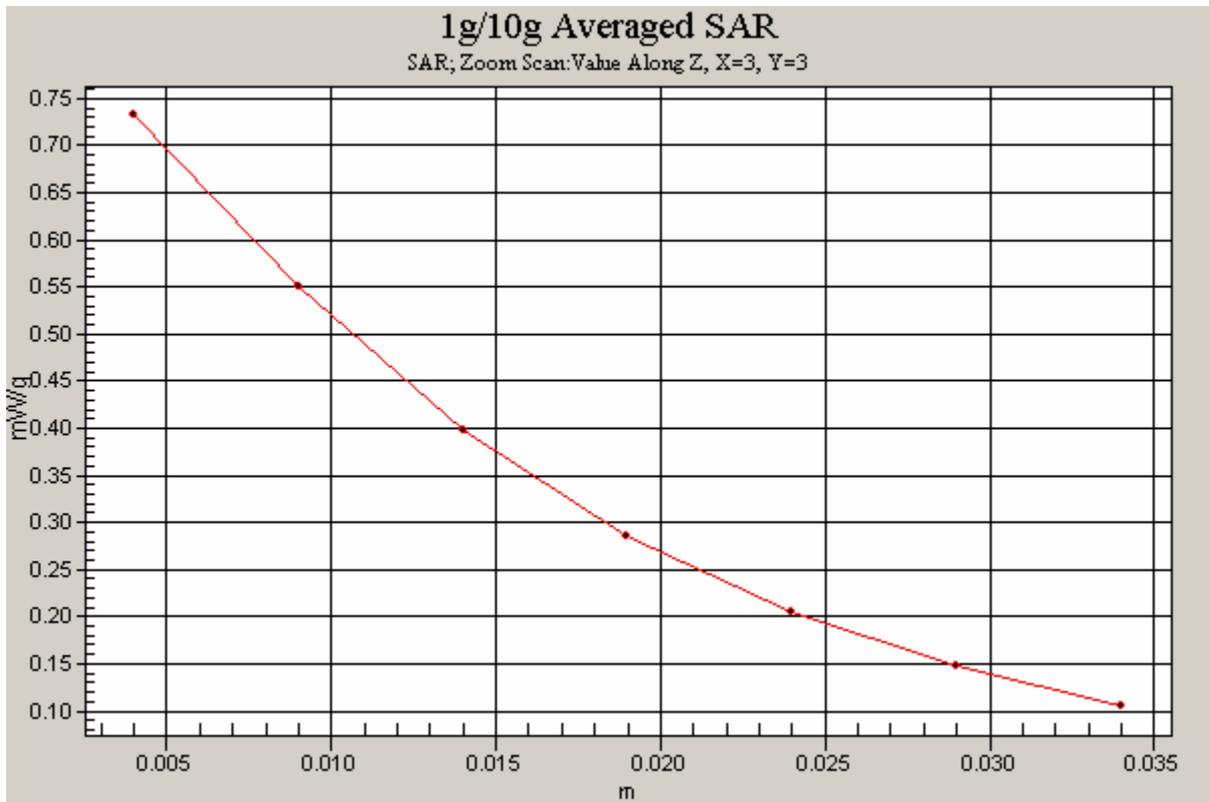


Figure 115 Z-Scan at power reference point (Left Hand Touch Cheek WCDMA Band V Channel 4182)

WCDMA Band V Left Cheek Low

Communication System: WCDMA Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.928$ mho/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE4 Sn679;

Cheek Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.623 mW/g

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

Reference Value = 22.8 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 0.787 W/kg

SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.406 mW/g

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

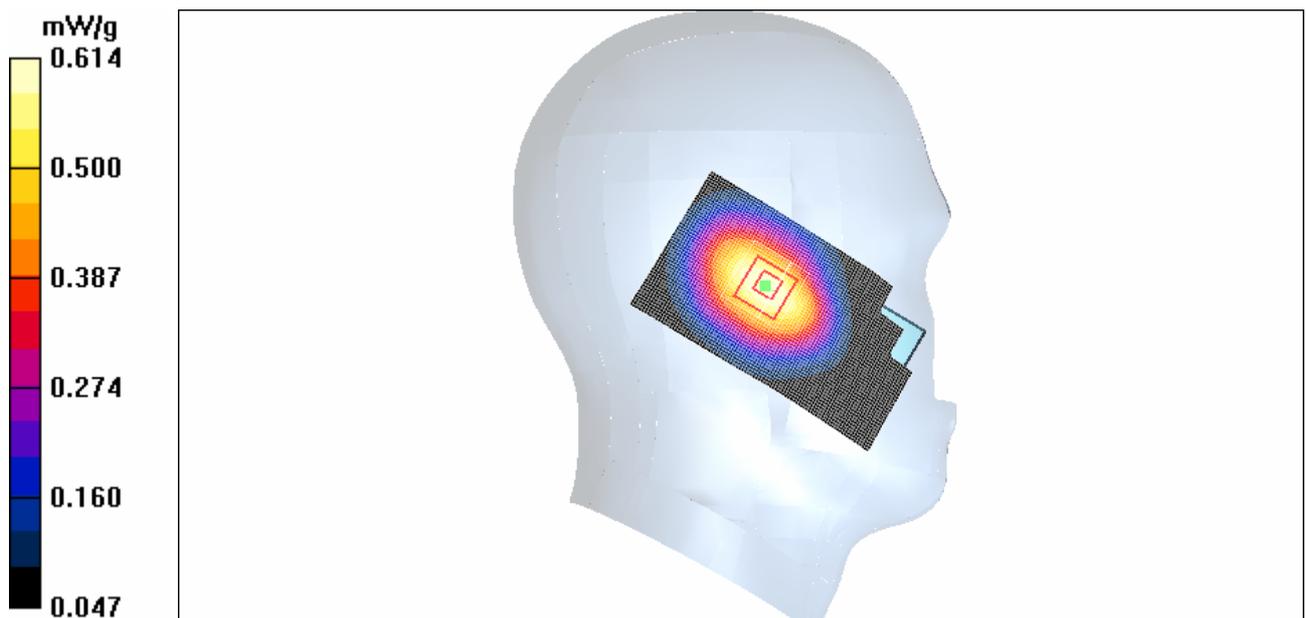


Figure 116 Left Hand Touch Cheek WCDMA Band V Channel 4132

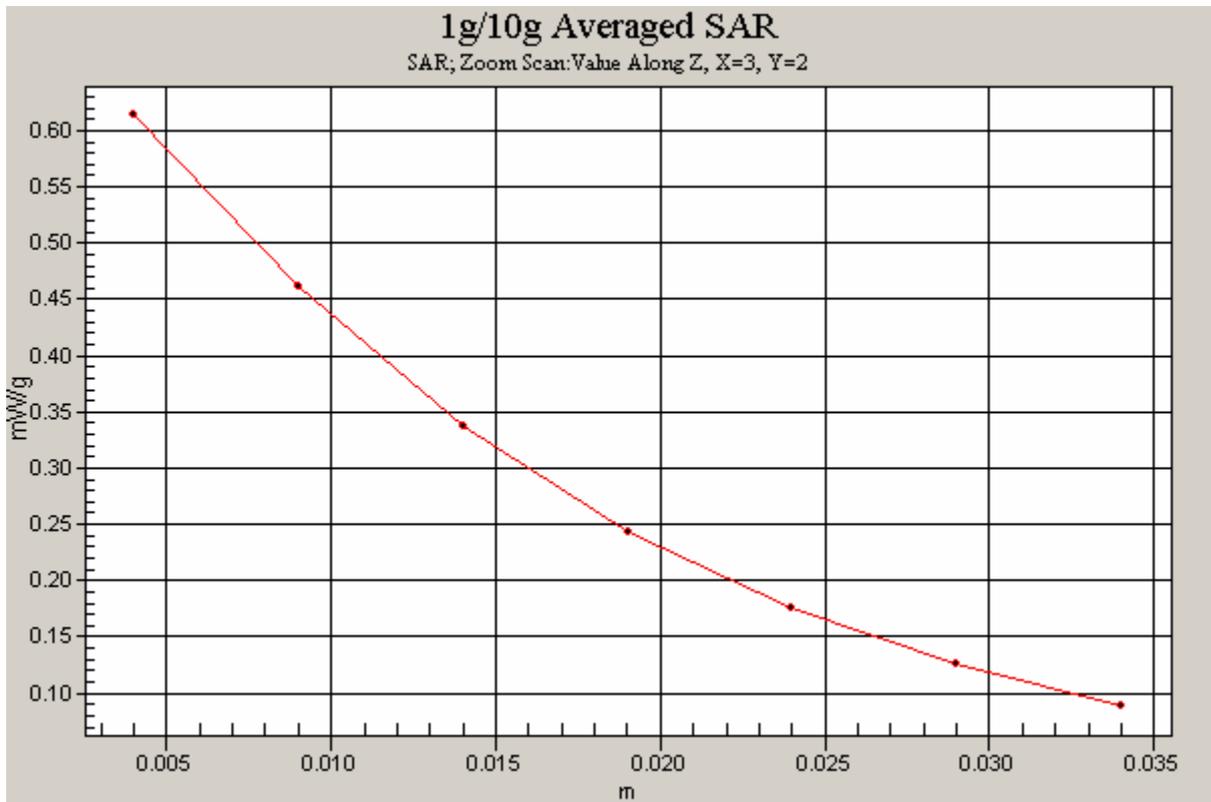


Figure 117 Z-Scan at power reference point (Left Hand Touch Cheek WCDMA Band V Channel 4132)

WCDMA Band V Left Tilt High

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn679;

Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.670 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.0 V/m; Power Drift = -0.095 dB
Peak SAR (extrapolated) = 0.883 W/kg
SAR(1 g) = 0.583 mW/g; SAR(10 g) = 0.399 mW/g
Maximum value of SAR (measured) = 0.624 mW/g

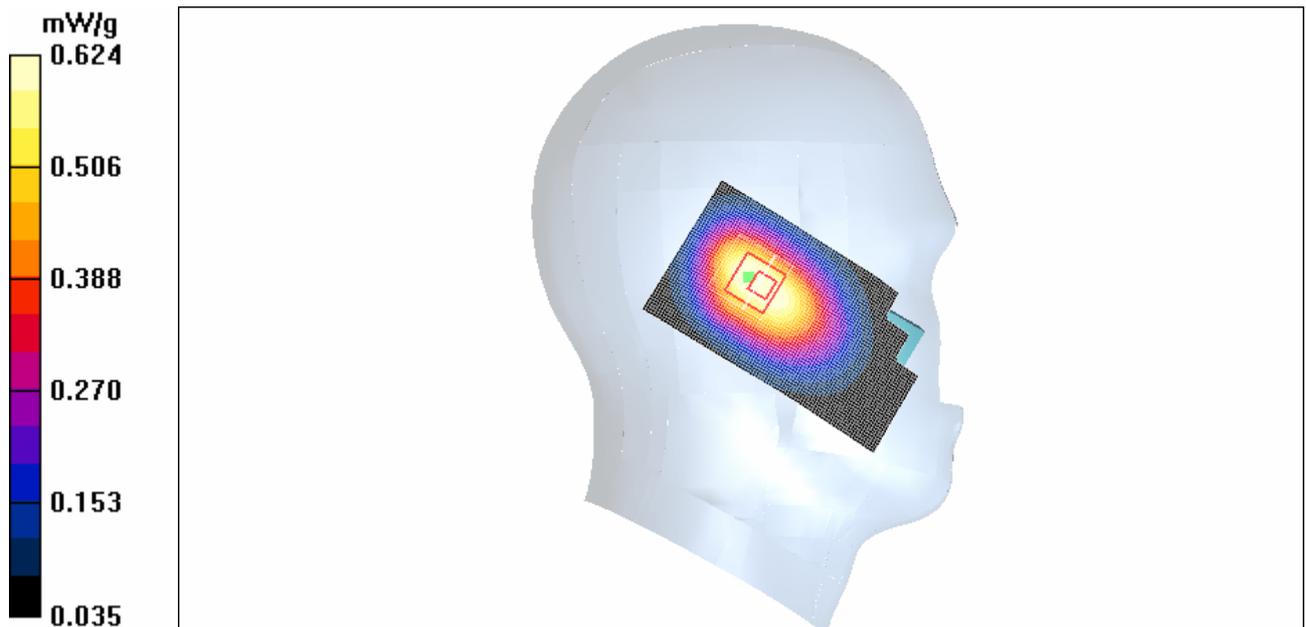


Figure 118 Left Hand Tilt 15°WCDMA Band V Channel 4233

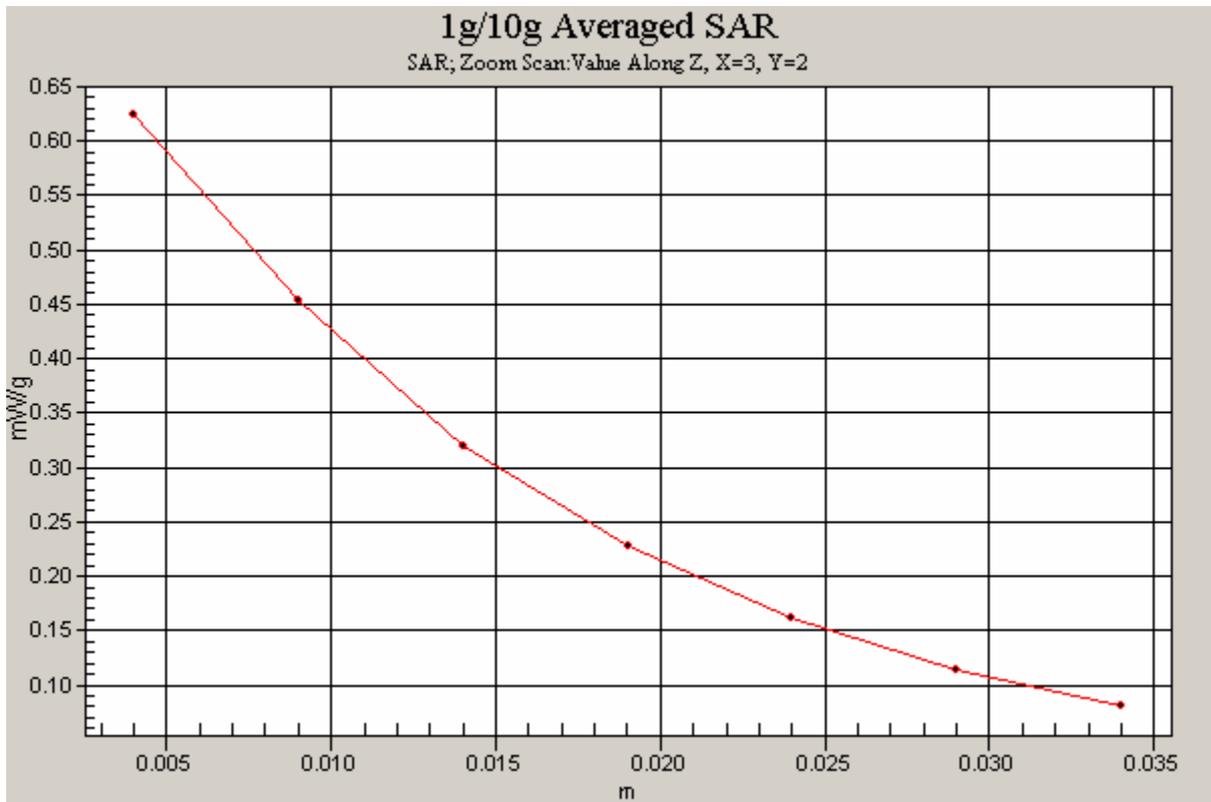


Figure 119 Z-Scan at power reference point (Left Hand Tilt 15°WCDMA Band V Channel 4233)

WCDMA Band V Left Tilt Middle

Communication System: WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.938$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE4 Sn679;

Tilt Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 23.6 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.786 W/kg

SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.346 mW/g

Maximum value of SAR (measured) = 0.551 mW/g

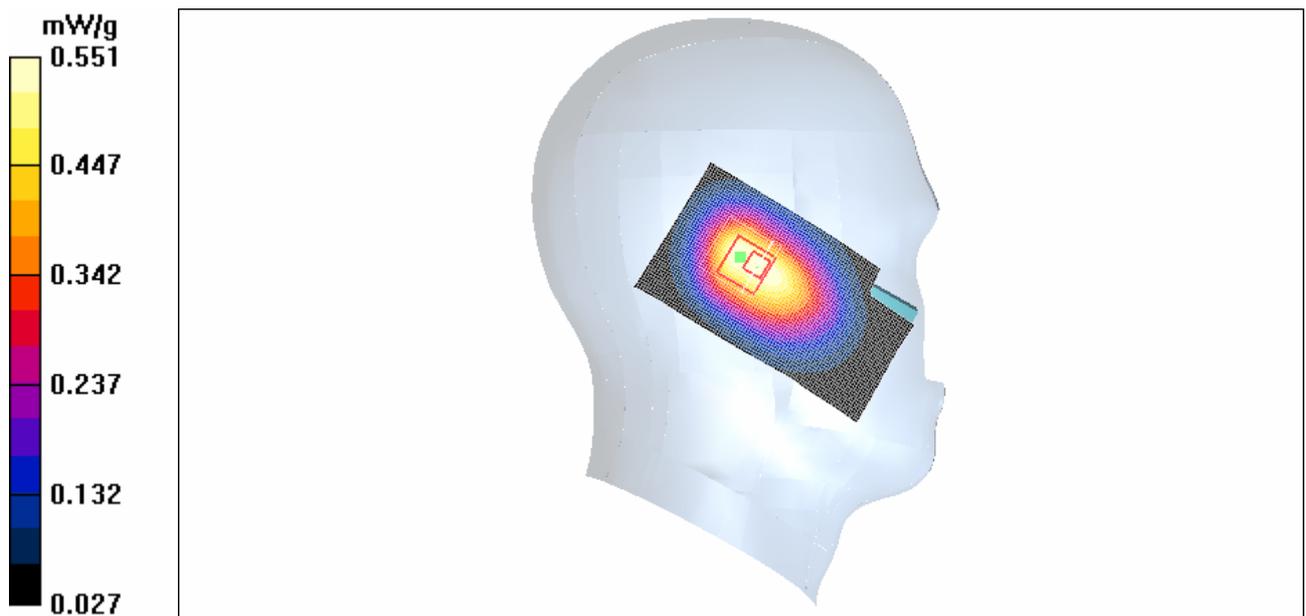


Figure 120 Left Hand Tilt 15° WCDMA Band V Channel 4182

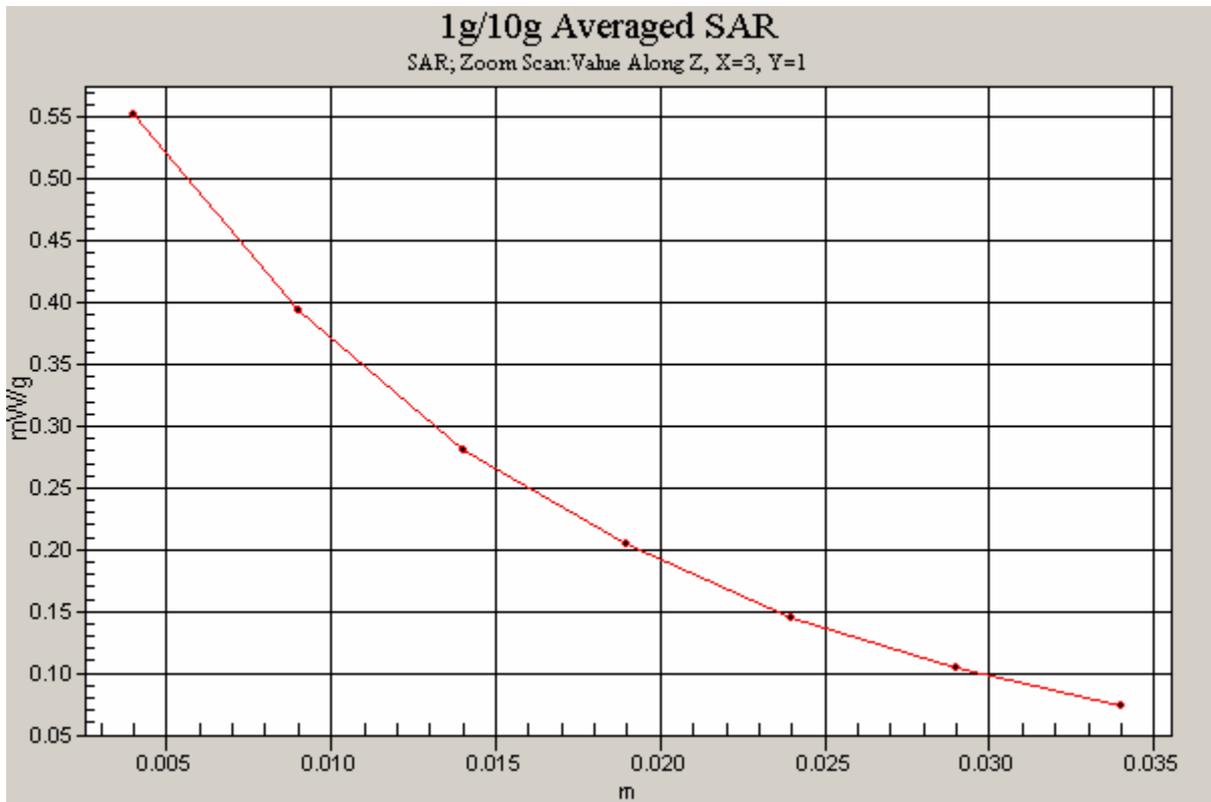


Figure 121 Z-Scan at power reference point (Left Hand Tilt 15° WCDMA Band V Channel 4182)

WCDMA Band V Left Tilt Low

Communication System: WCDMA Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.928$ mho/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE4 Sn679;

Tilt Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.480 mW/g

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

Reference Value = 22.0 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 0.662 W/kg

SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.293 mW/g

Maximum value of SAR (measured) = 0.454 mW/g

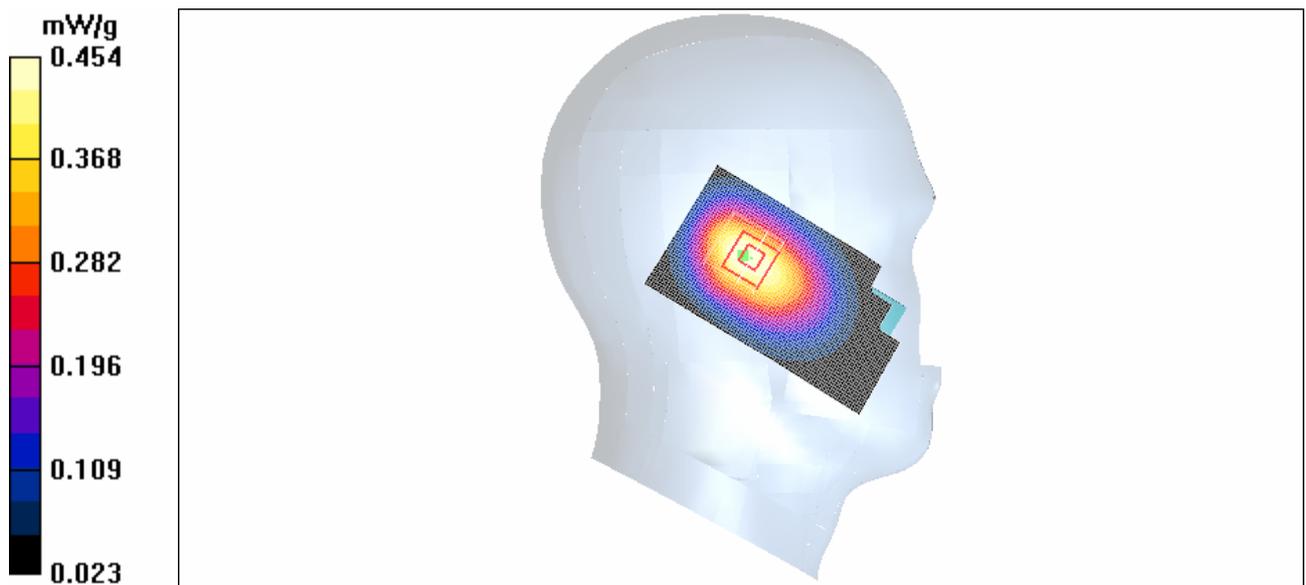


Figure 122 Left Hand Tilt 15° WCDMA Band V Channel 4132

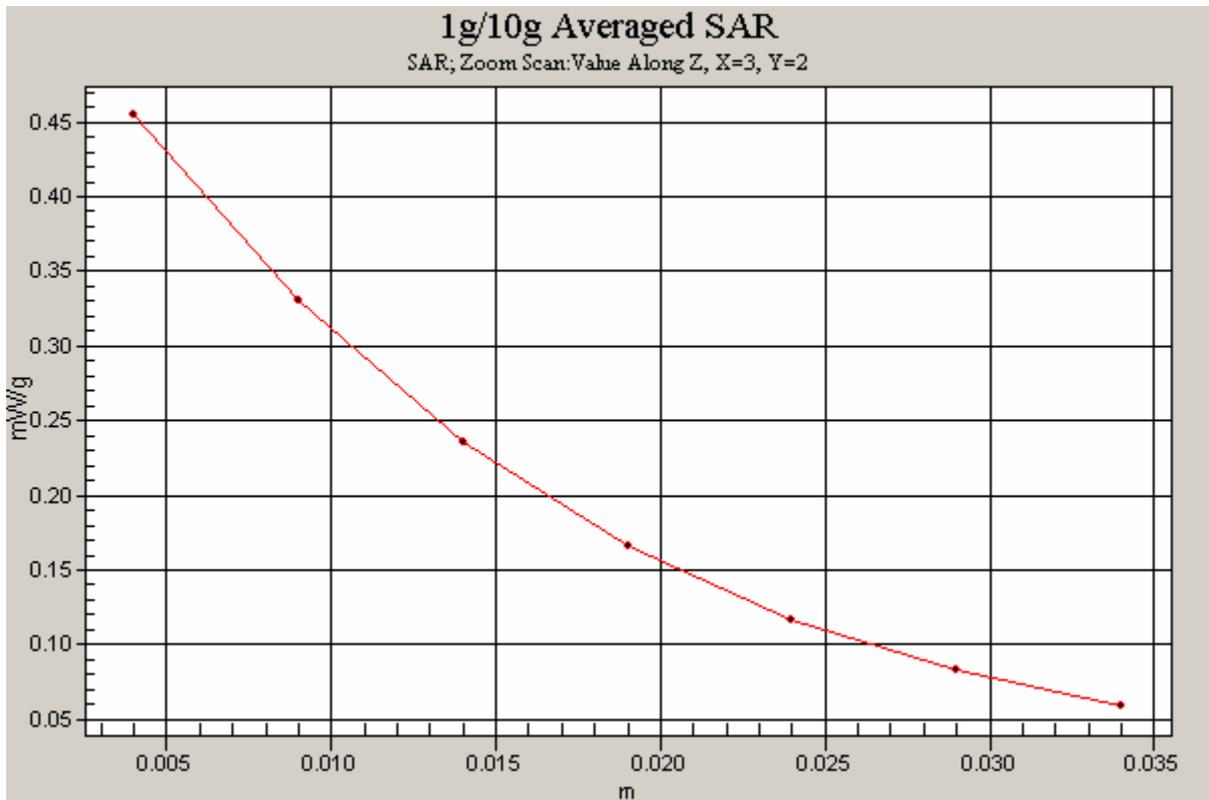


Figure 123 Z-Scan at power reference point (Left Hand Tilt 15° WCDMA Band V Channel 4132)

WCDMA Band V Right Cheek High

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn679;

Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.930 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.2 V/m; Power Drift = -0.084 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.833 mW/g; SAR(10 g) = 0.585 mW/g
Maximum value of SAR (measured) = 0.891 mW/g

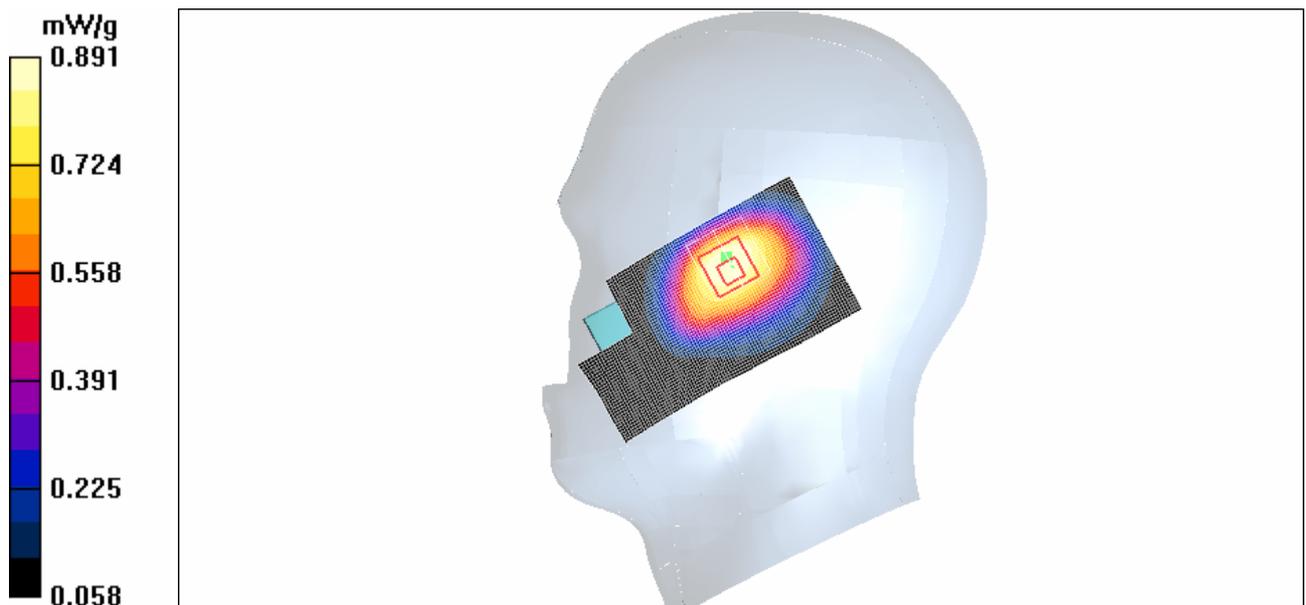


Figure 124 Right Hand Touch Cheek WCDMA Band V Channel 4233

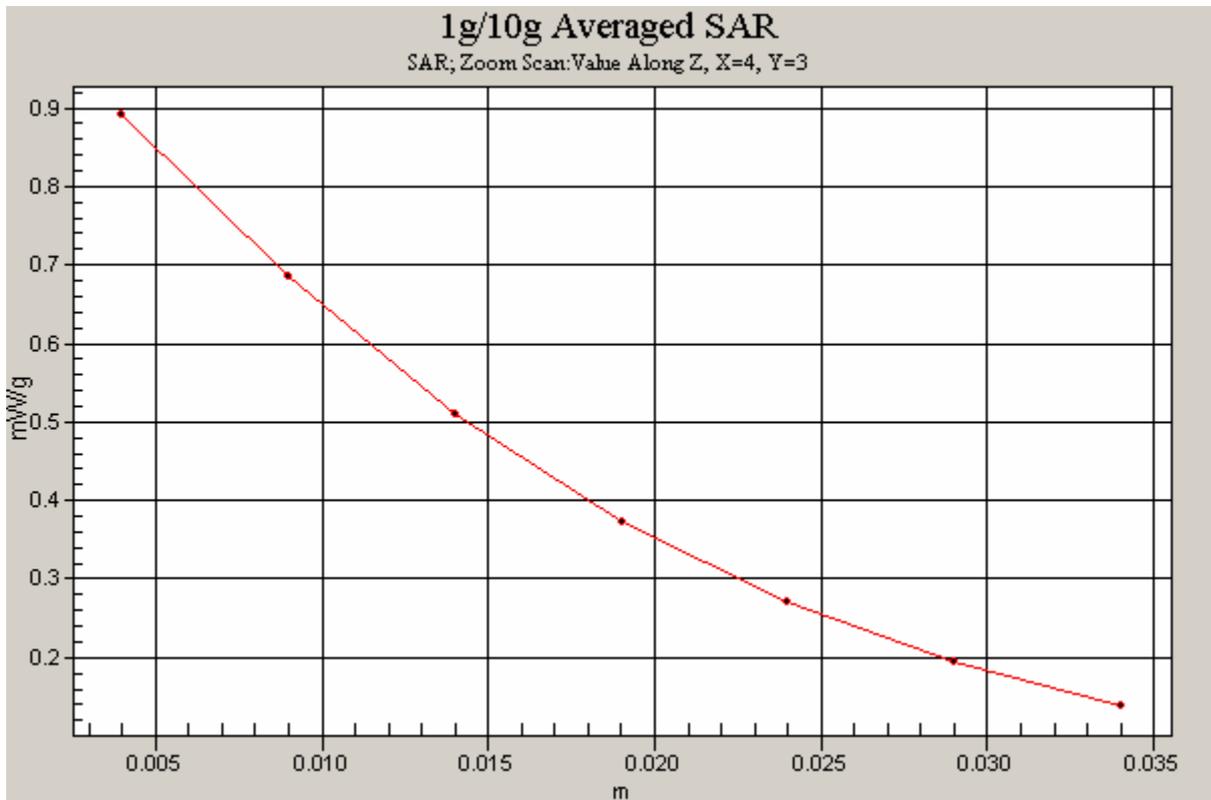


Figure 125 Z-Scan at power reference point (Right Hand Touch Cheek WCDMA Band V Channel 4233)

WCDMA Band V Right Cheek Middle

Communication System: WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.938$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE4 Sn679;

Cheek Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.816 mW/g

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

Reference Value = 23.9 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.950 W/kg

SAR(1 g) = 0.733 mW/g; SAR(10 g) = 0.519 mW/g

Maximum value of SAR (measured) = 0.782 mW/g

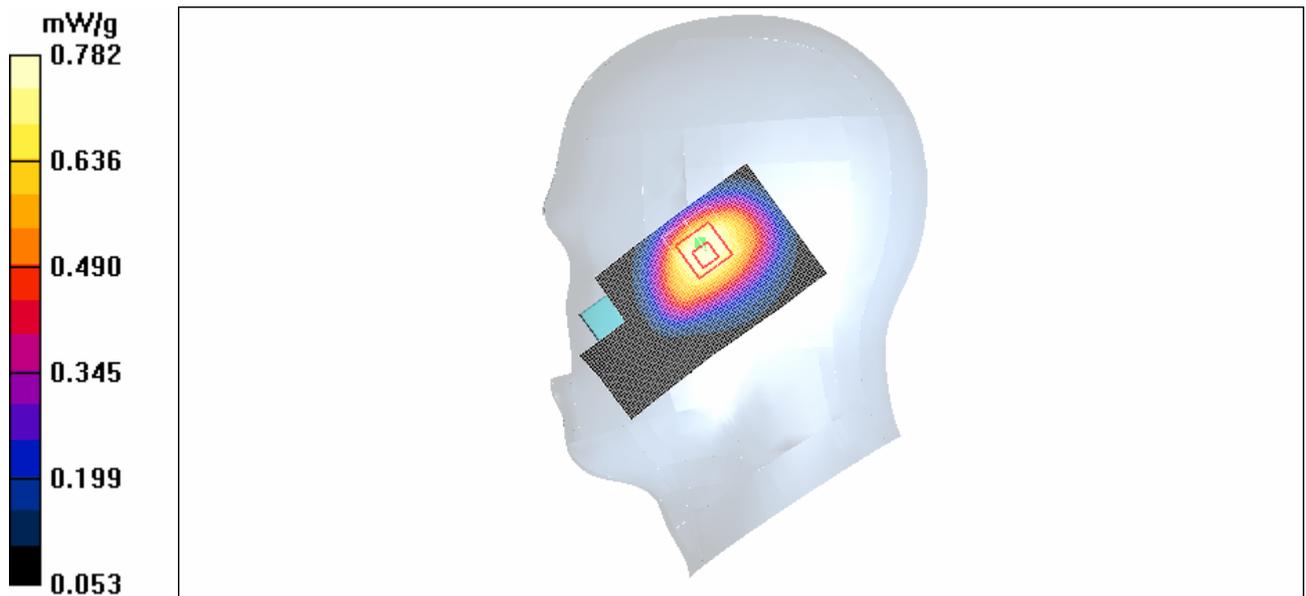


Figure 126 Right Hand Touch Cheek WCDMA Band V Channel 4182

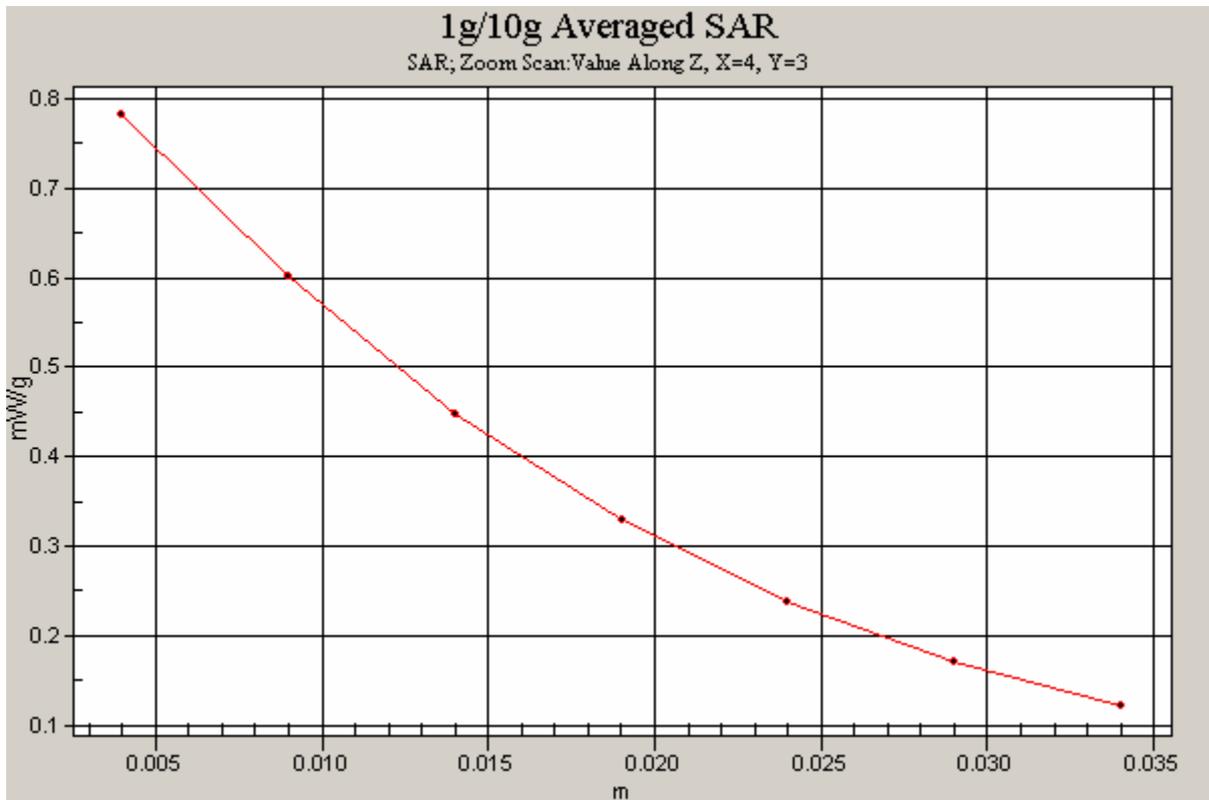


Figure 127 Z-Scan at power reference point (Right Hand Touch Cheek WCDMA Band V Channel 4182)

WCDMA Band V Right Cheek Low

Communication System: WCDMA Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.928$ mho/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE4 Sn679;

Right Cheek Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.664 mW/g

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

Reference Value = 22.3 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 0.795 W/kg

SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.436 mW/g

Maximum value of SAR (measured) = 0.645 mW/g

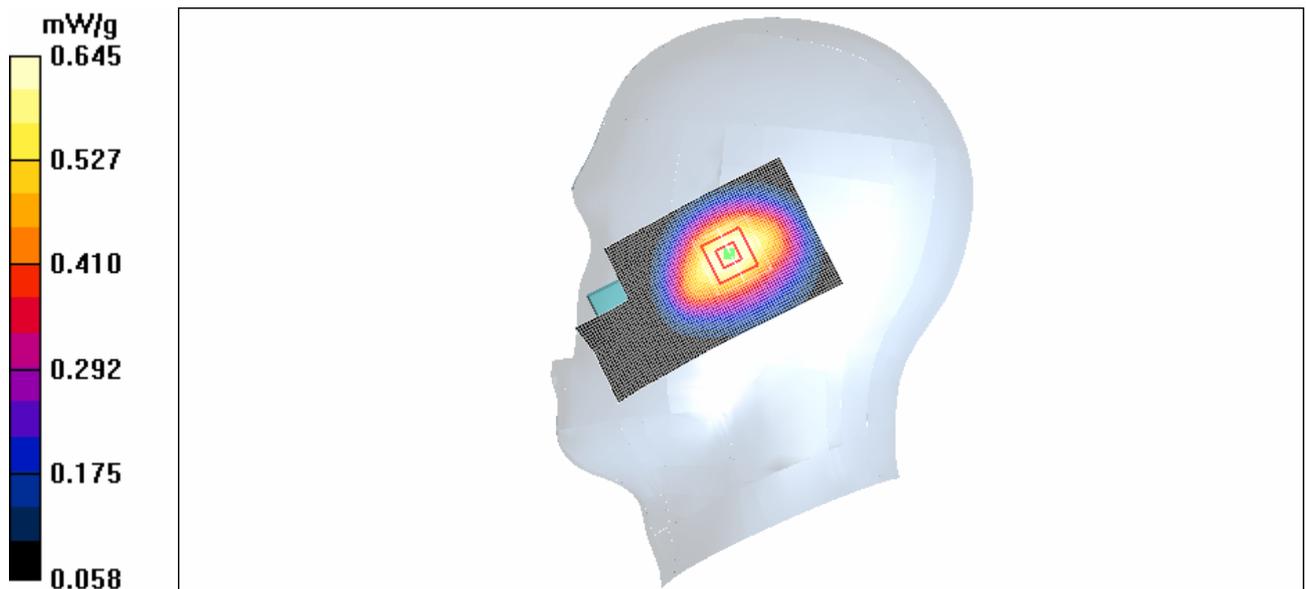


Figure 128 Right Hand Touch Cheek WCDMA Band V Channel 4132

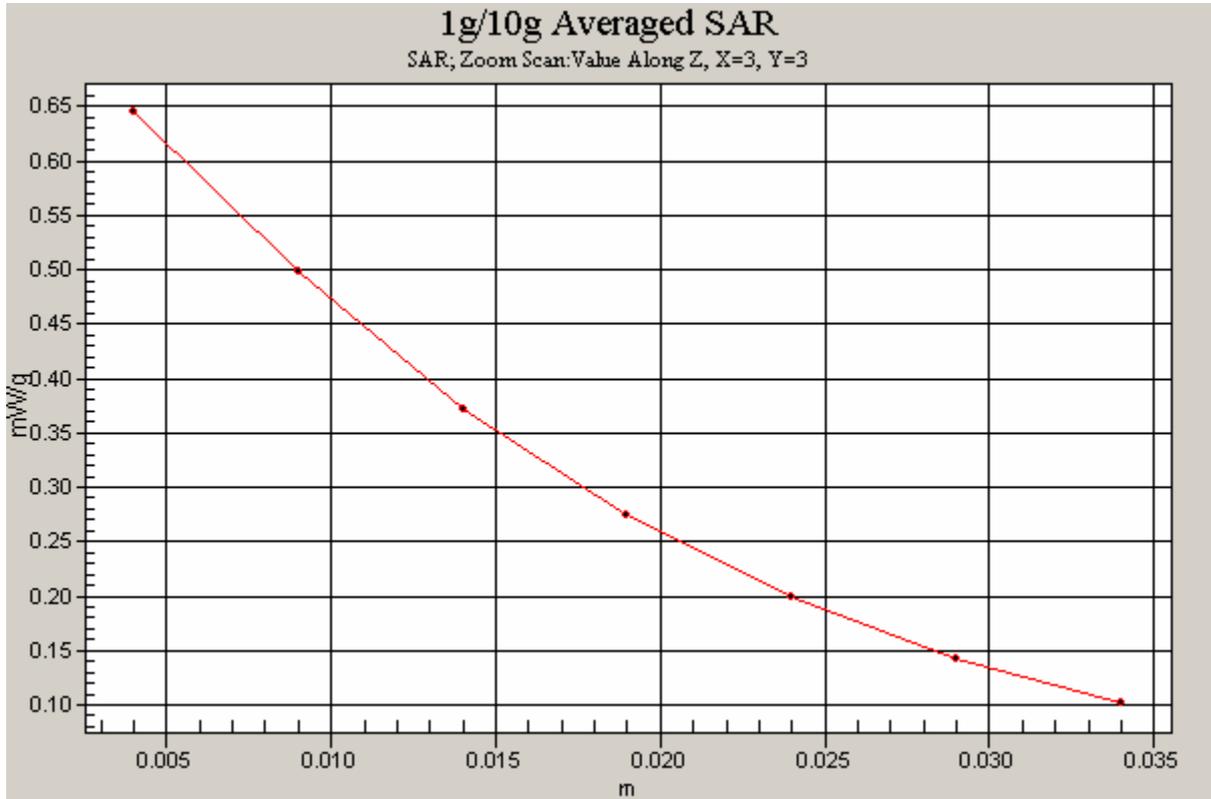


Figure 129 Z-Scan at power reference point (Right Hand Touch Cheek WCDMA Band V Channel 4132)

WCDMA Band V Right Tilt High

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 42.3$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn679;

Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.607 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.5 V/m; Power Drift = 0.043 dB
Peak SAR (extrapolated) = 0.757 W/kg
SAR(1 g) = 0.538 mW/g; SAR(10 g) = 0.379 mW/g
Maximum value of SAR (measured) = 0.573 mW/g

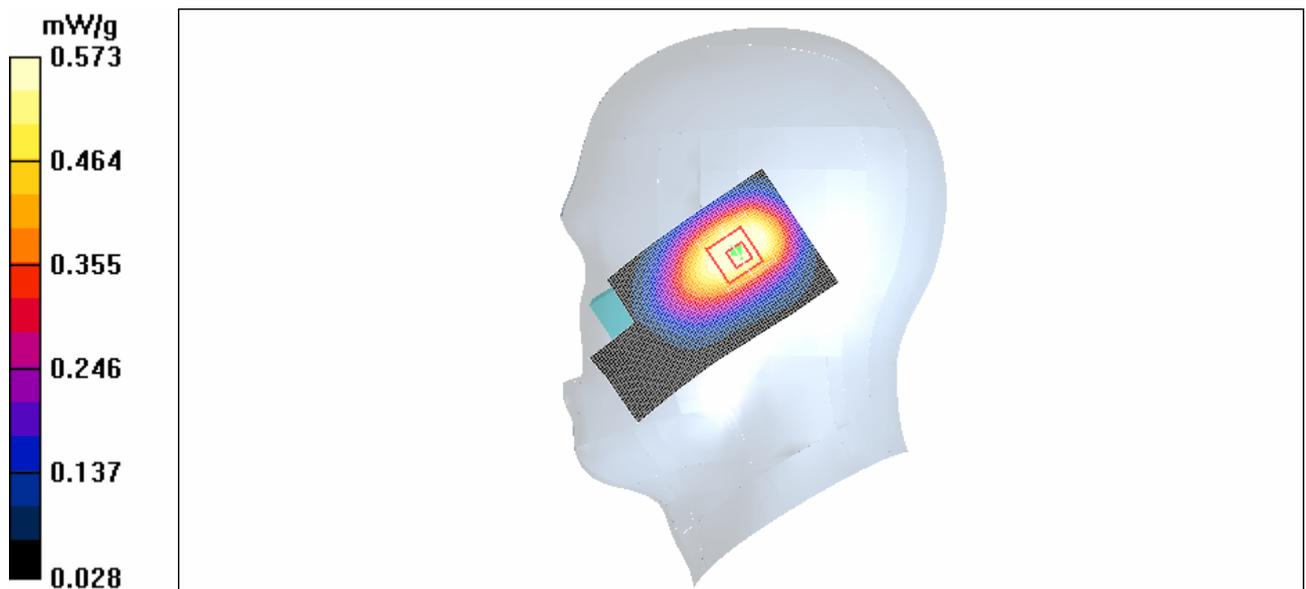


Figure 130 Right Hand Tilt 15° WCDMA Band V Channel 4233

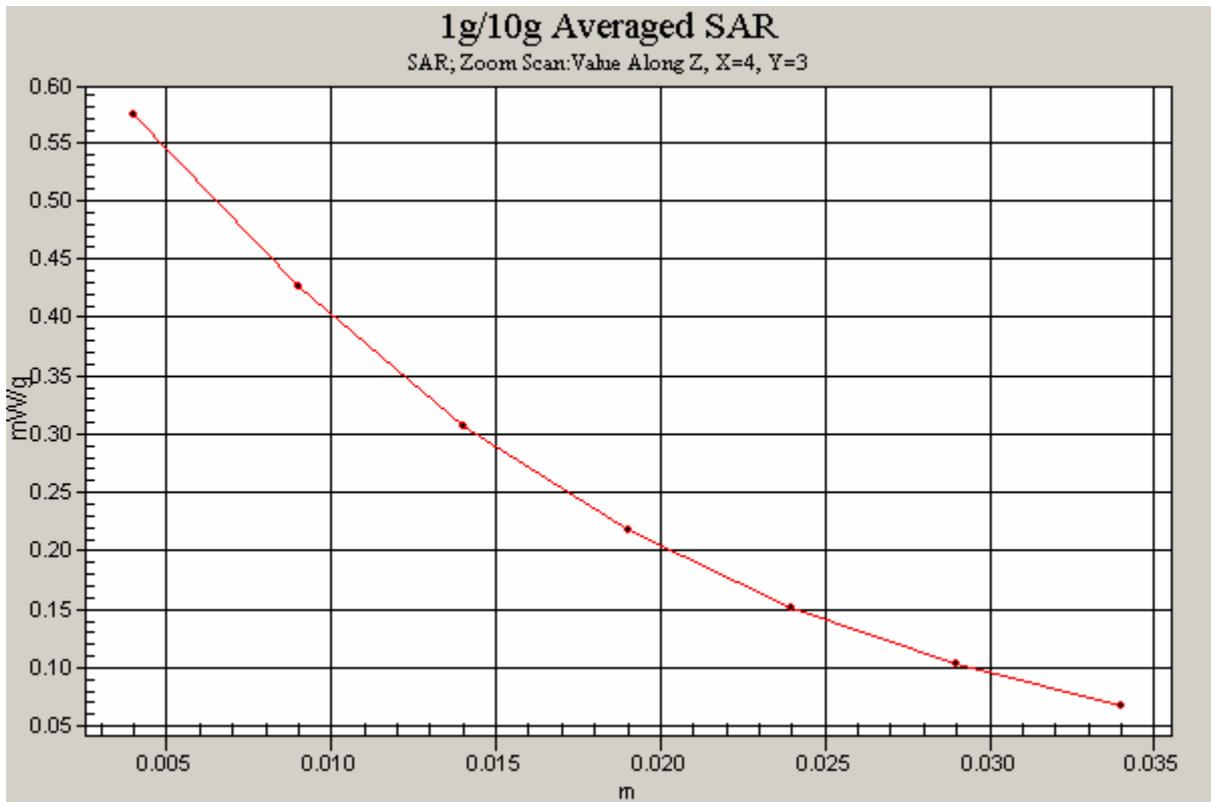


Figure 131 Z-Scan at power reference point (Right Hand Tilt 15° WCDMA Band V Channel 4233)

WCDMA Band V Right Tilt Middle

Communication System: WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.938$ mho/m; $\epsilon_r = 42.4$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE4 Sn679;

Tilt Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.529 mW/g

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

Reference Value = 23.6 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.488 mW/g; SAR(10 g) = 0.349 mW/g

Maximum value of SAR (measured) = 0.521 mW/g

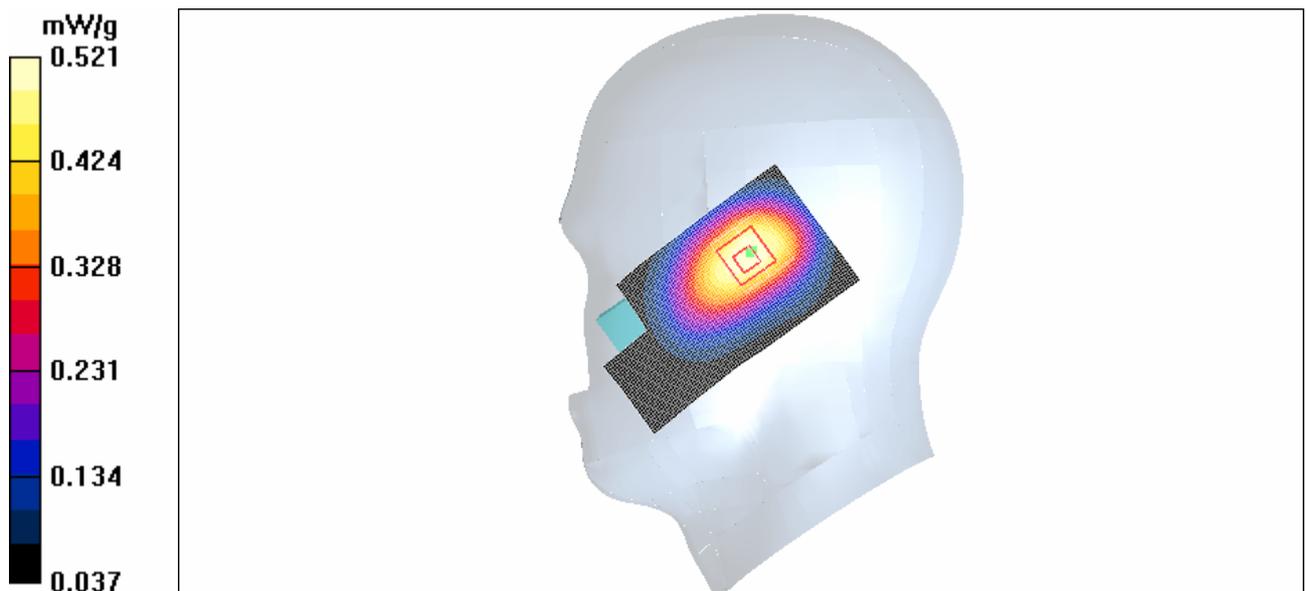


Figure 132 Right Hand Tilt 15° WCDMA Band V Channel 4182

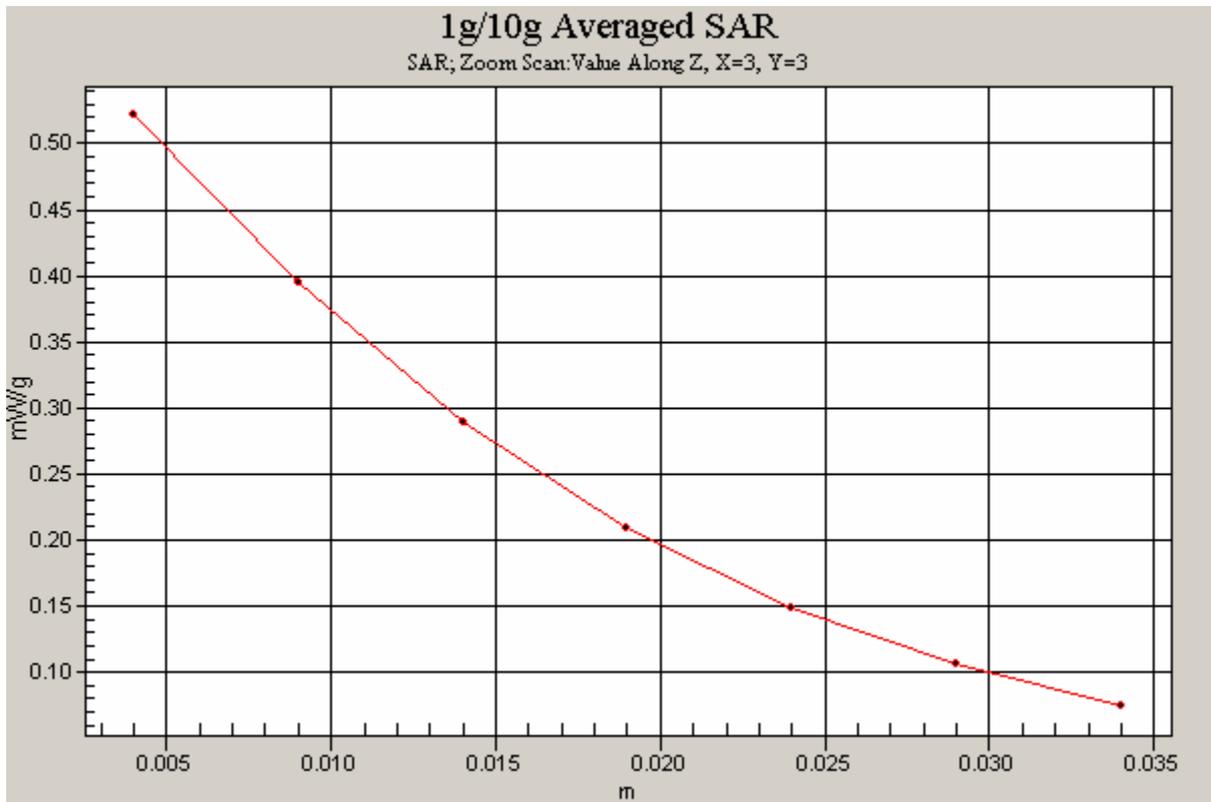


Figure 133 Z-Scan at power reference point (Right Hand Tilt 15° WCDMA Band V Channel 4182)

WCDMA Band V Right Tilt Low

Communication System: WCDMA Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.928$ mho/m; $\epsilon_r = 42.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

Electronics: DAE4 Sn679;

Tilt Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.446 mW/g

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

Reference Value = 21.8 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.581 W/kg

SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.300 mW/g

Maximum value of SAR (measured) = 0.442 mW/g

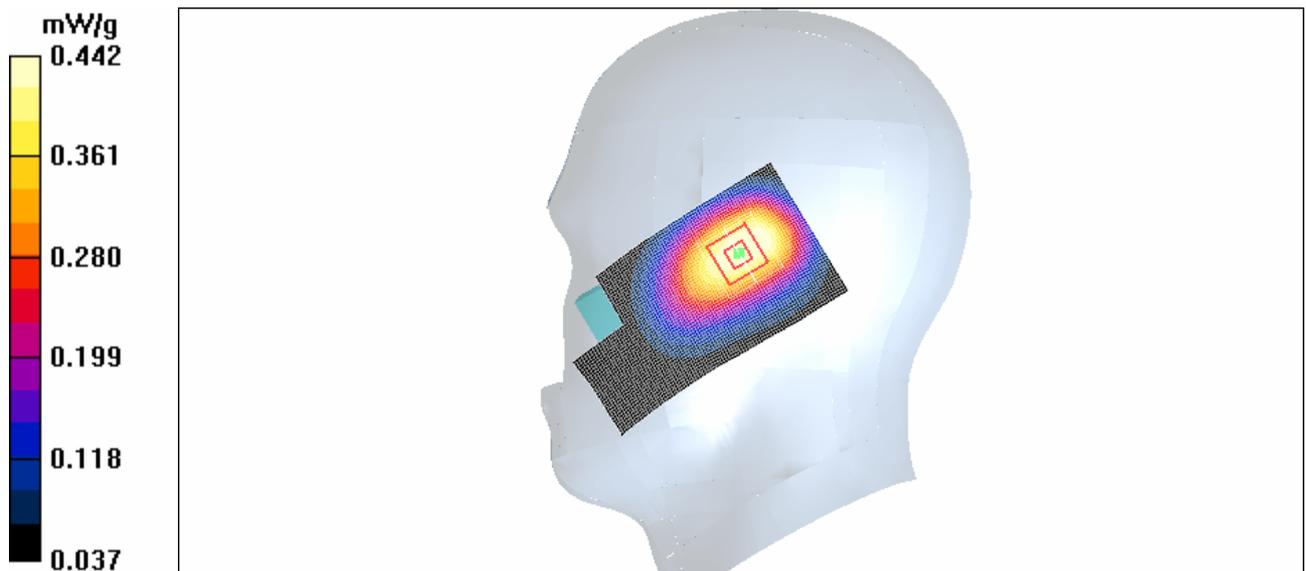


Figure 134 Right Hand Tilt 15° WCDMA Band V Channel 4132



Figure 135 Z-Scan at power reference point (Right Hand Tilt 15° WCDMA Band V Channel 4132)

WCDMA Band V Towards Ground High

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 847$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE4 Sn679;

Towards ground,High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.725 mW/g

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

Reference Value = 14.6 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 0.867 W/kg

SAR(1 g) = 0.686 mW/g; SAR(10 g) = 0.488 mW/g

Maximum value of SAR (measured) = 0.734 mW/g

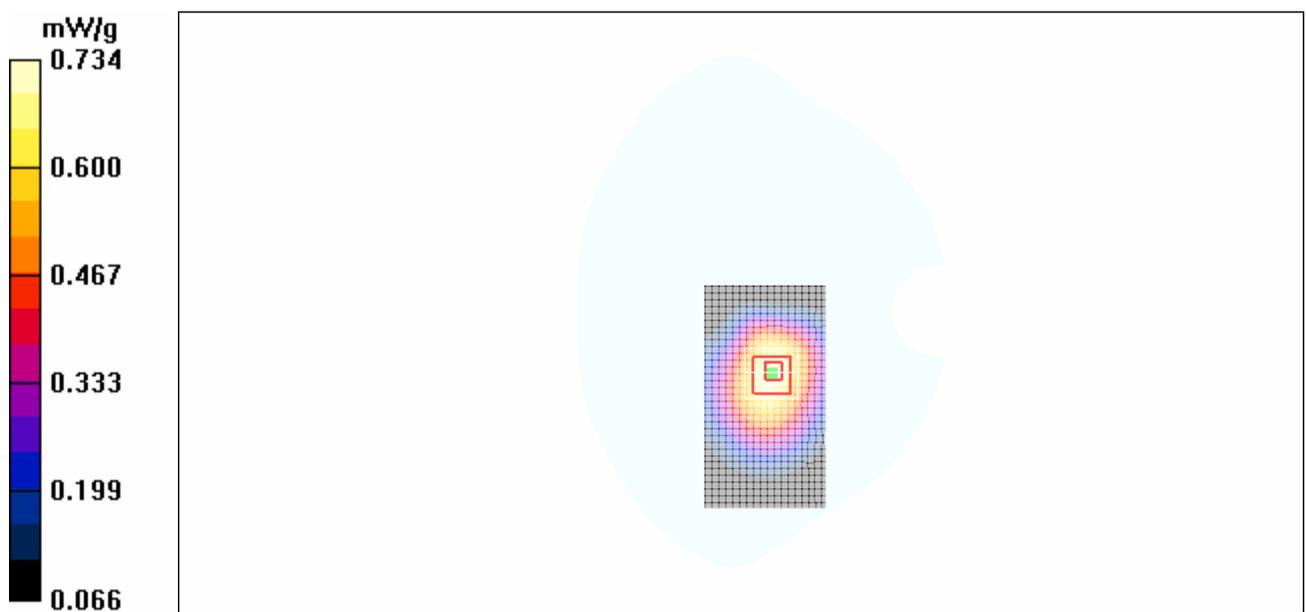


Figure 136 Body, Towards Ground, WCDMA Band V Channel 4233

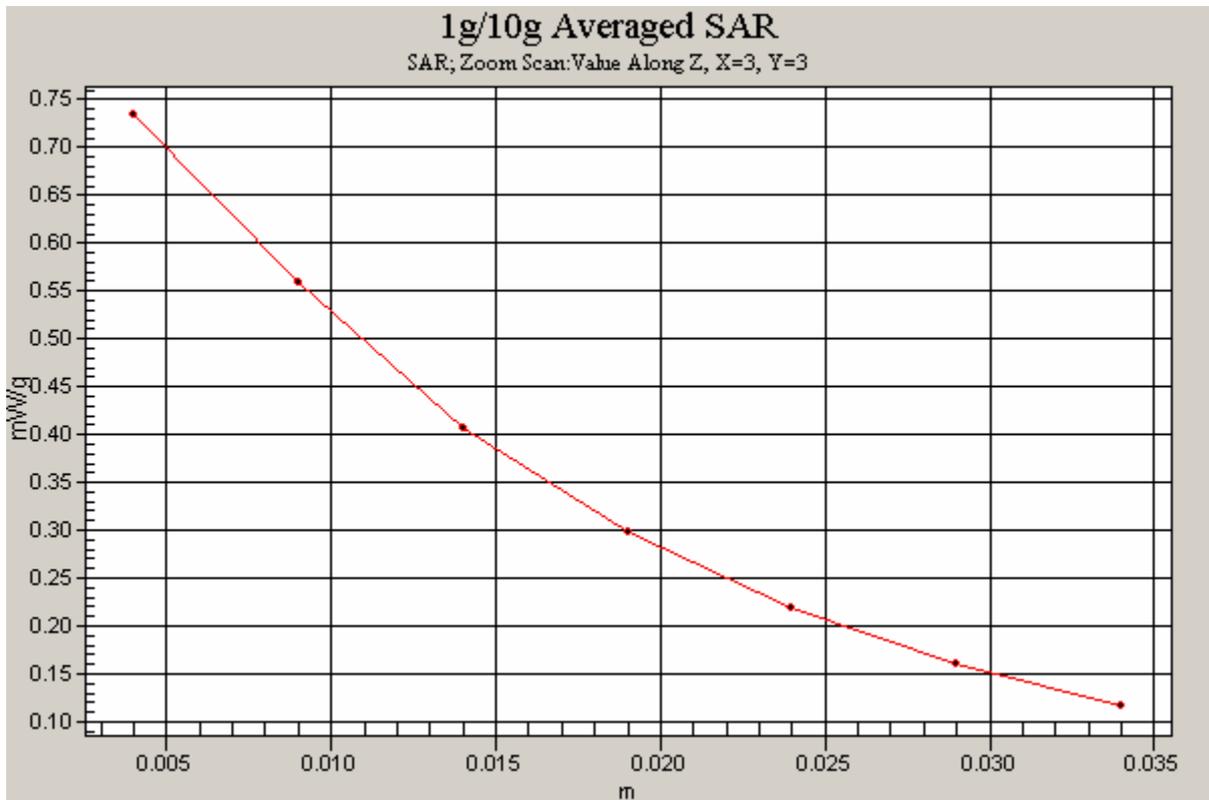


Figure 137 Z-Scan at power reference point (Body, Towards Ground, WCDMA Band V Channel 4233)

WCDMA Band V Towards Ground Middle

Communication System: WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE4 Sn679;

Towards ground,Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.833 mW/g

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

Reference Value = 18.1 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.775 mW/g; SAR(10 g) = 0.552 mW/g

Maximum value of SAR (measured) = 0.825 mW/g

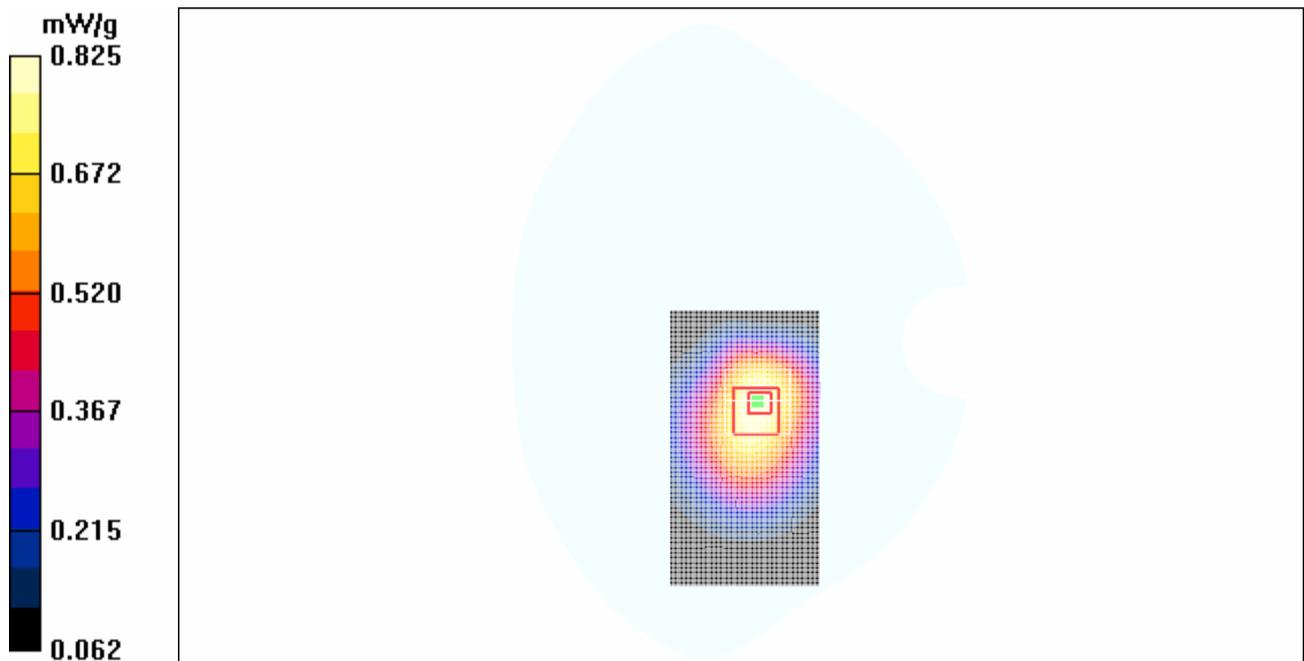


Figure 138 Body, Towards Ground, WCDMA Band V Channel 4182

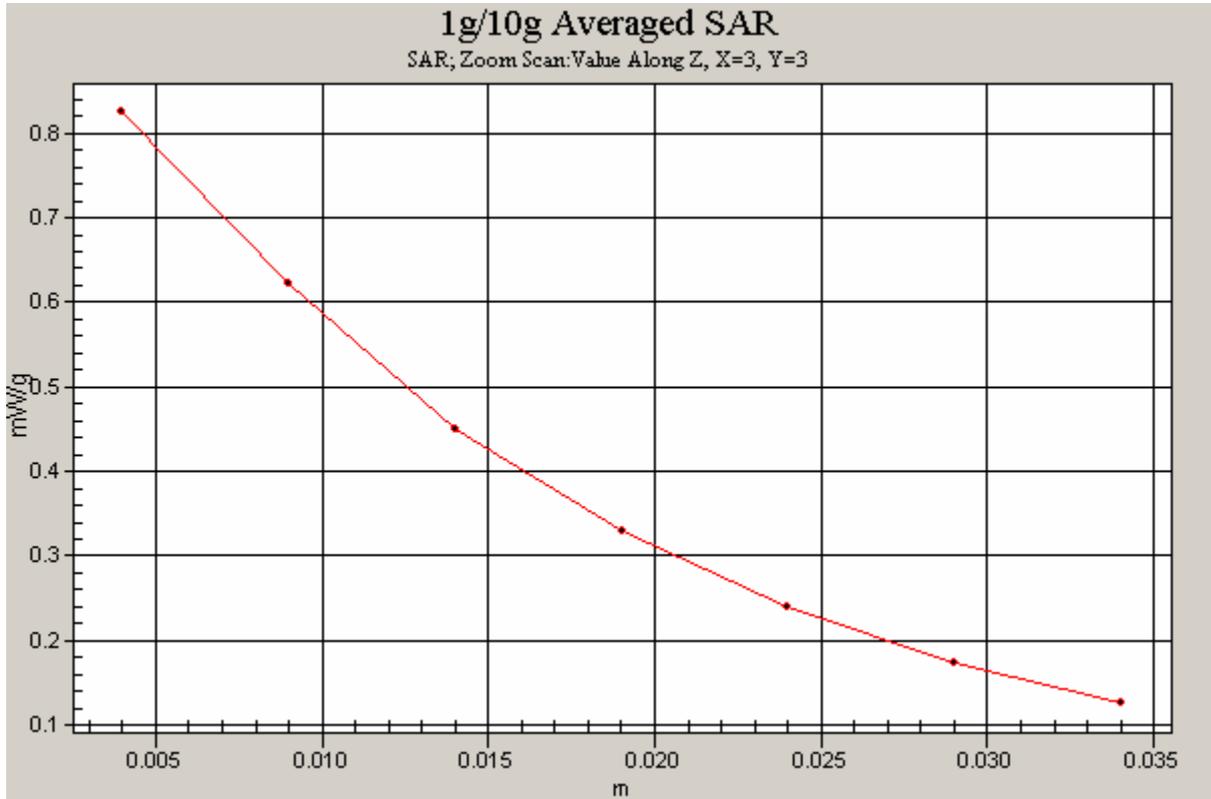


Figure 139 Z-Scan at power reference point (Body, Towards Ground, WCDMA Band V Channel 4182)

WCDMA Band V Towards Ground Low

Communication System: WCDMA Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.989$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE4 Sn679;

Towards ground,Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.956 mW/g

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

Reference Value = 19.3 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.875 mW/g; SAR(10 g) = 0.625 mW/g

Maximum value of SAR (measured) = 0.932 mW/g

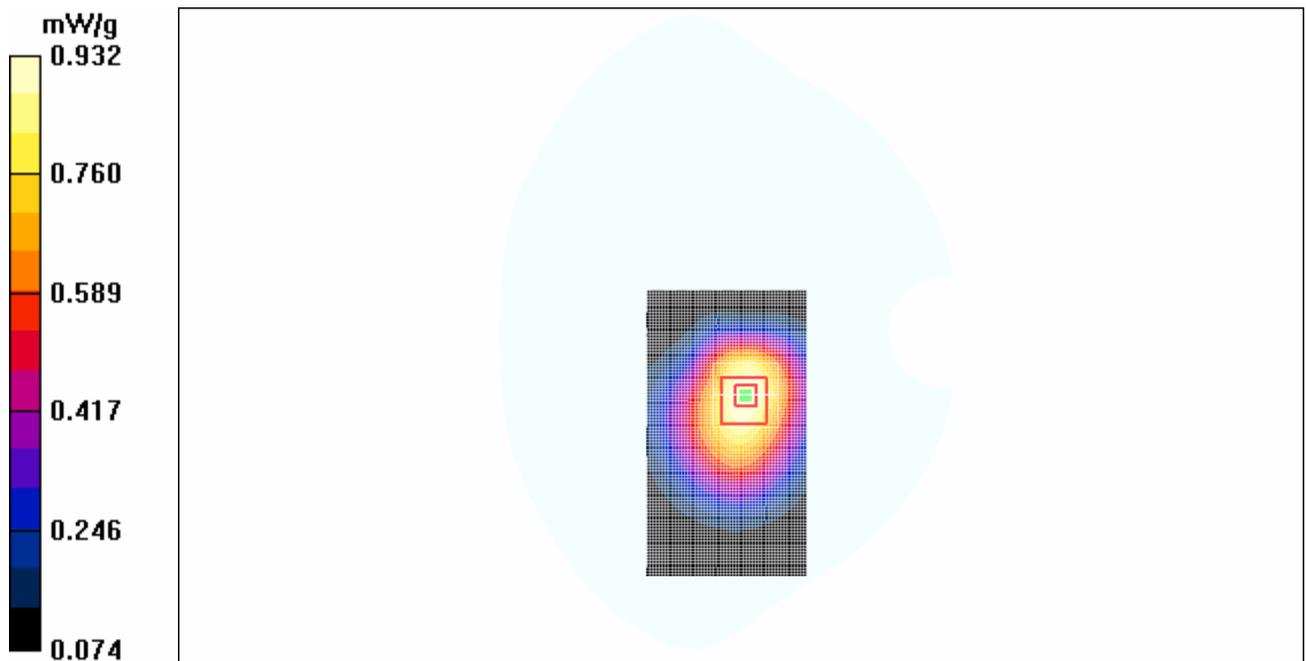


Figure 140 Body, Towards Ground, WCDMA Band V Channel 4132

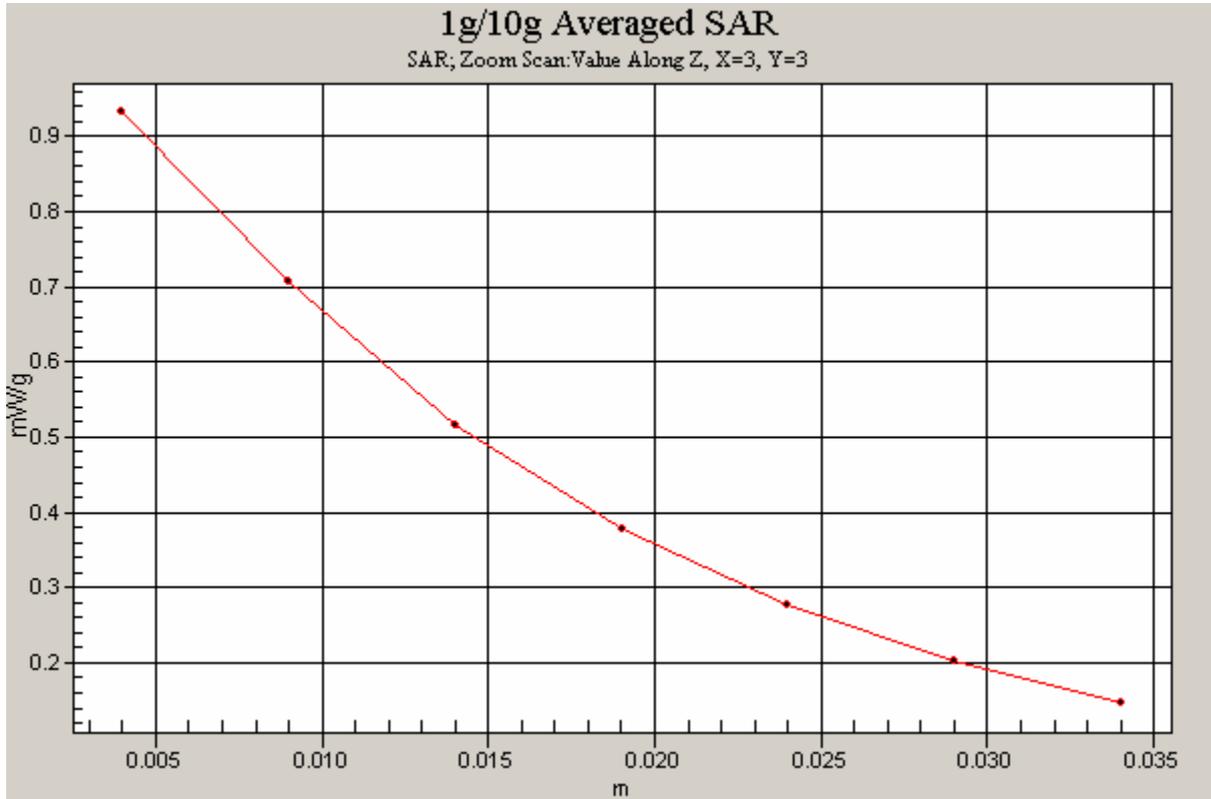


Figure 141 Z-Scan at power reference point (Body, Towards Ground, WCDMA Band V Channel 4132)

WCDMA Band V Towards Phantom High

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 847$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE4 Sn679;

Towards phantom, High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.544 mW/g

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

Reference Value = 18.8 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 0.633 W/kg

SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.365 mW/g

Maximum value of SAR (measured) = 0.538 mW/g

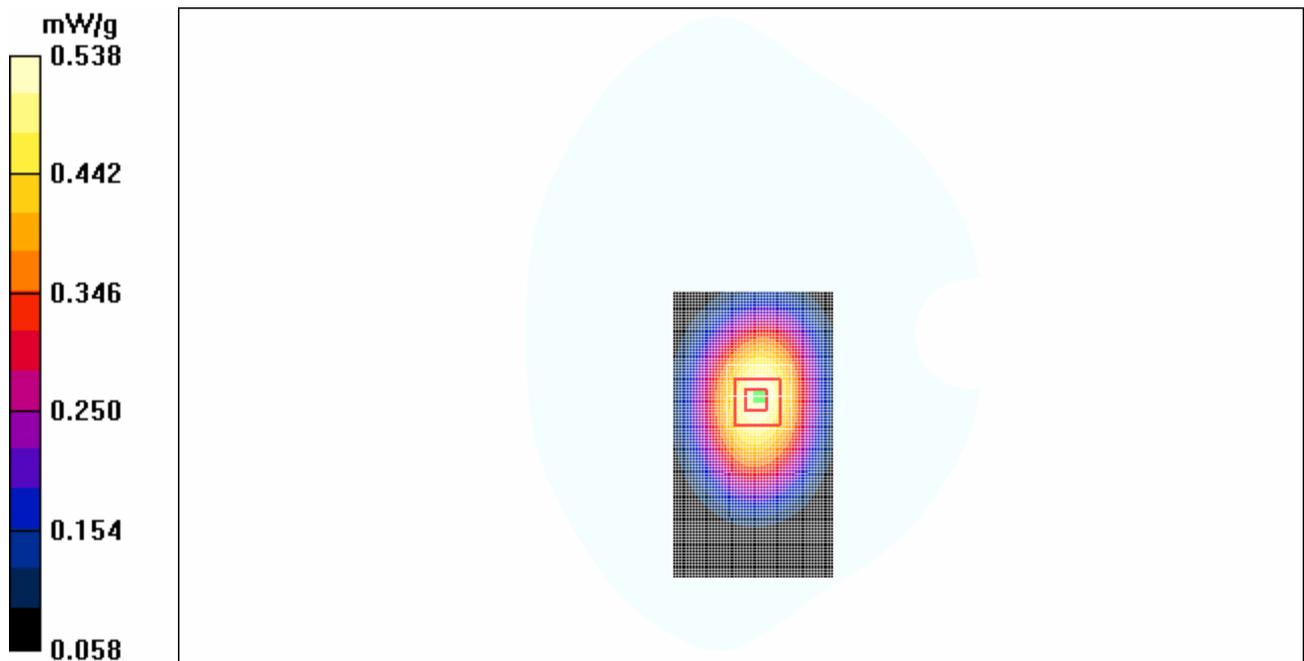


Figure 142 Body, Towards Phantom, WCDMA Band V Channel 4233

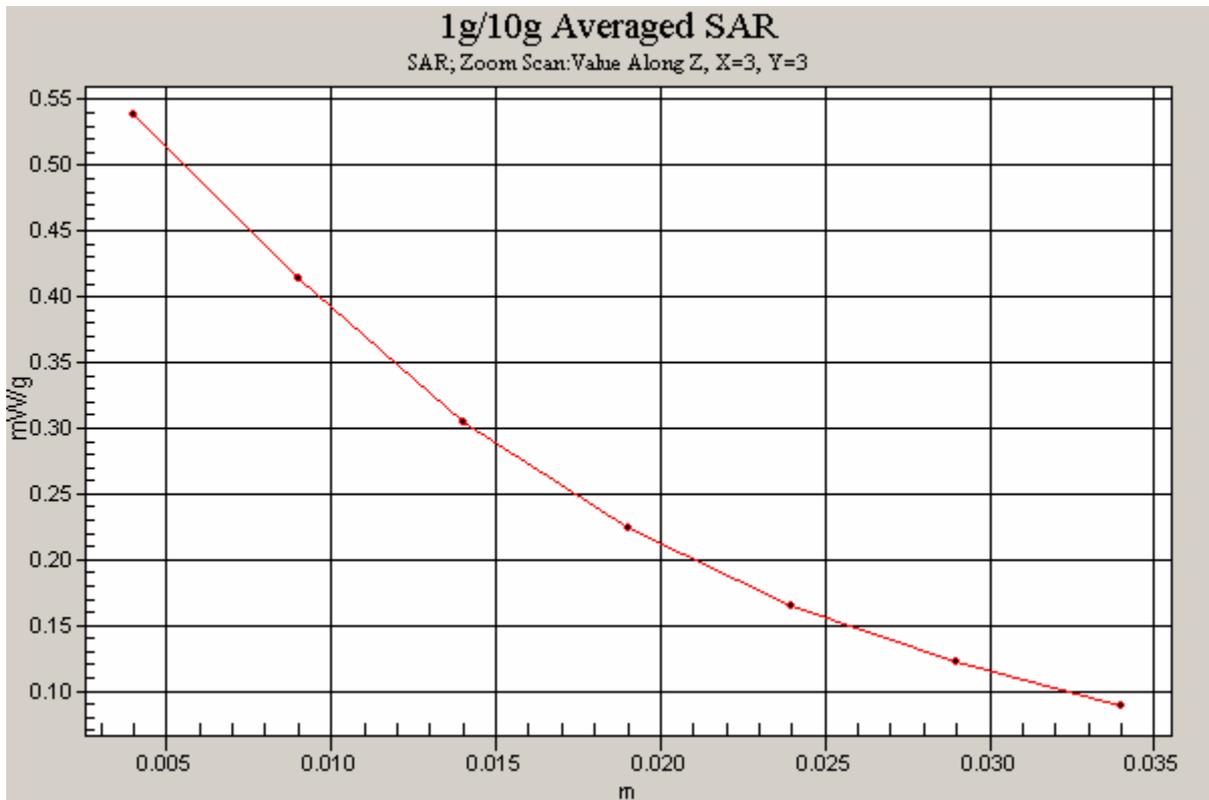


Figure 143 Z-Scan at power reference point (Body, Towards Phantom, WCDMA Band V Channel 4233)

WCDMA Band V Towards Phantom Middle

Communication System: WCDMA Band V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 54.6$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE4 Sn679;

Towards phantom, Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.464 mW/g

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

Reference Value = 17.5 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.537 W/kg

SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.311 mW/g

Maximum value of SAR (measured) = 0.459 mW/g

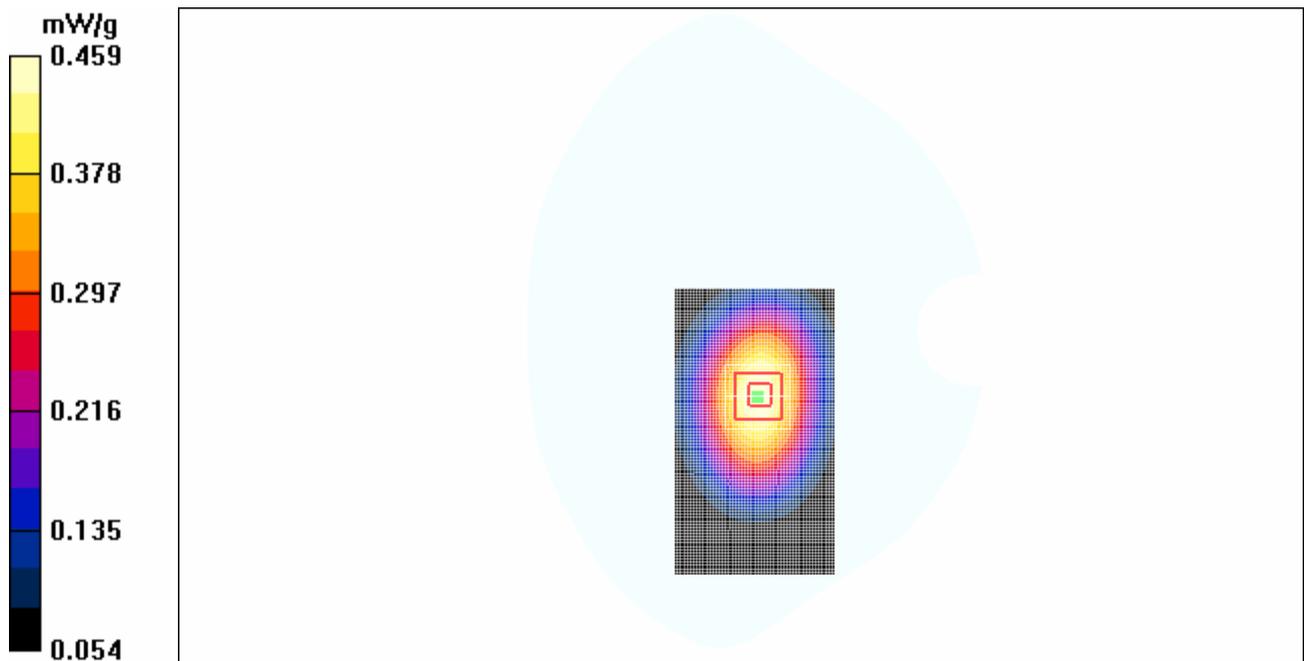


Figure 144 Body, Towards Phantom, WCDMA Band V Channel 4182

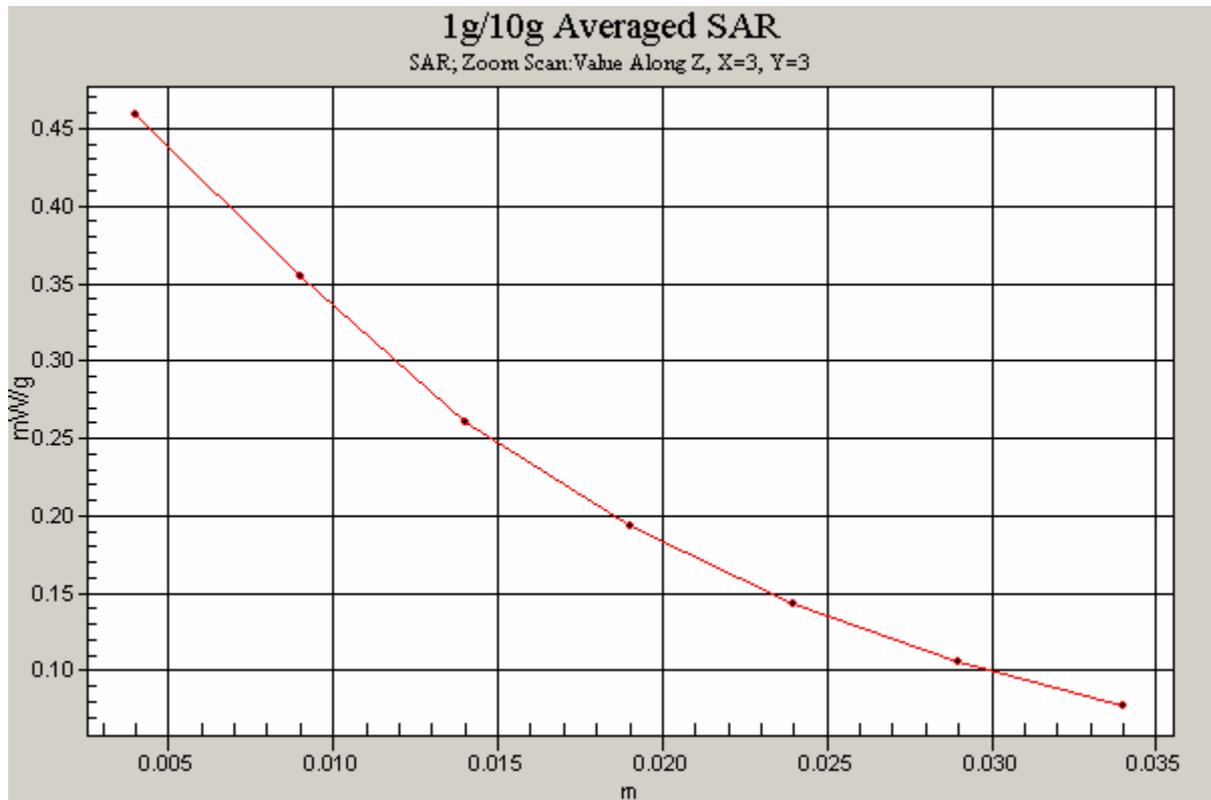


Figure 145 Z-Scan at power reference point (Body, Towards Phantom, WCDMA Band V Channel 4182)

WCDMA Band V Towards Phantom Low

Communication System: WCDMA Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.989$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE4 Sn679;

Towards phantom, Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.395 mW/g

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

Reference Value = 16.4 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.267 mW/g

Maximum value of SAR (measured) = 0.393 mW/g

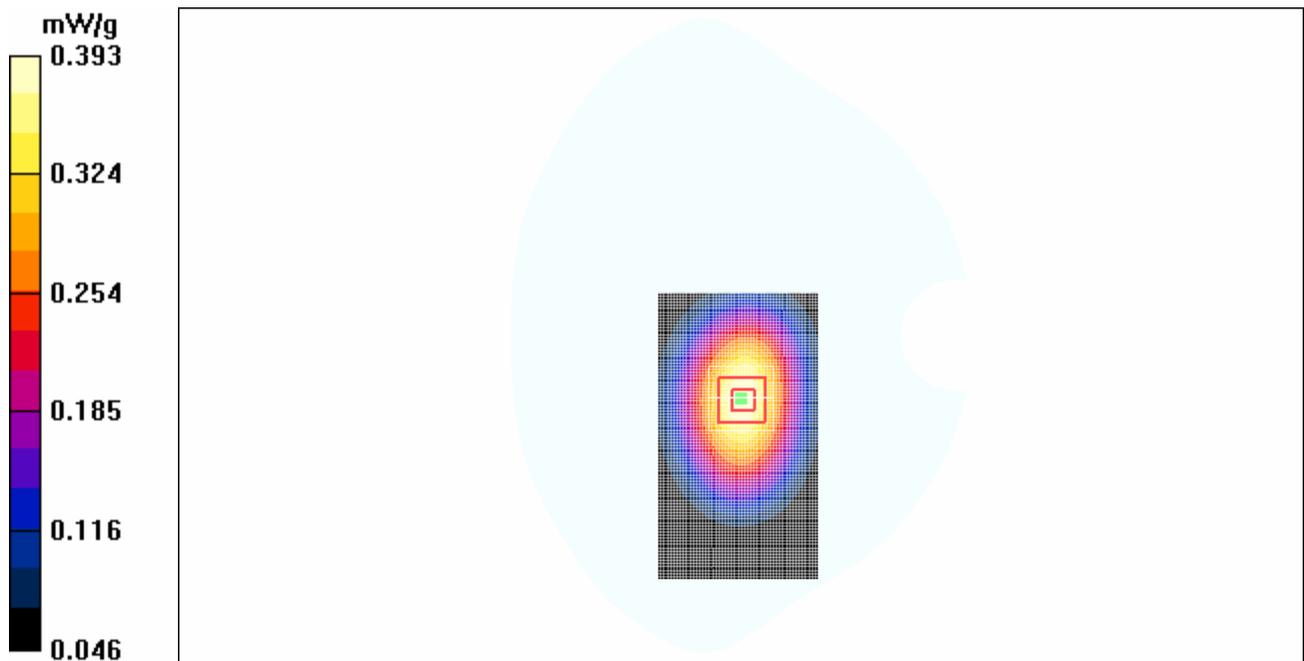


Figure 146 Body, Towards Phantom, WCDMA Band V Channel 4132

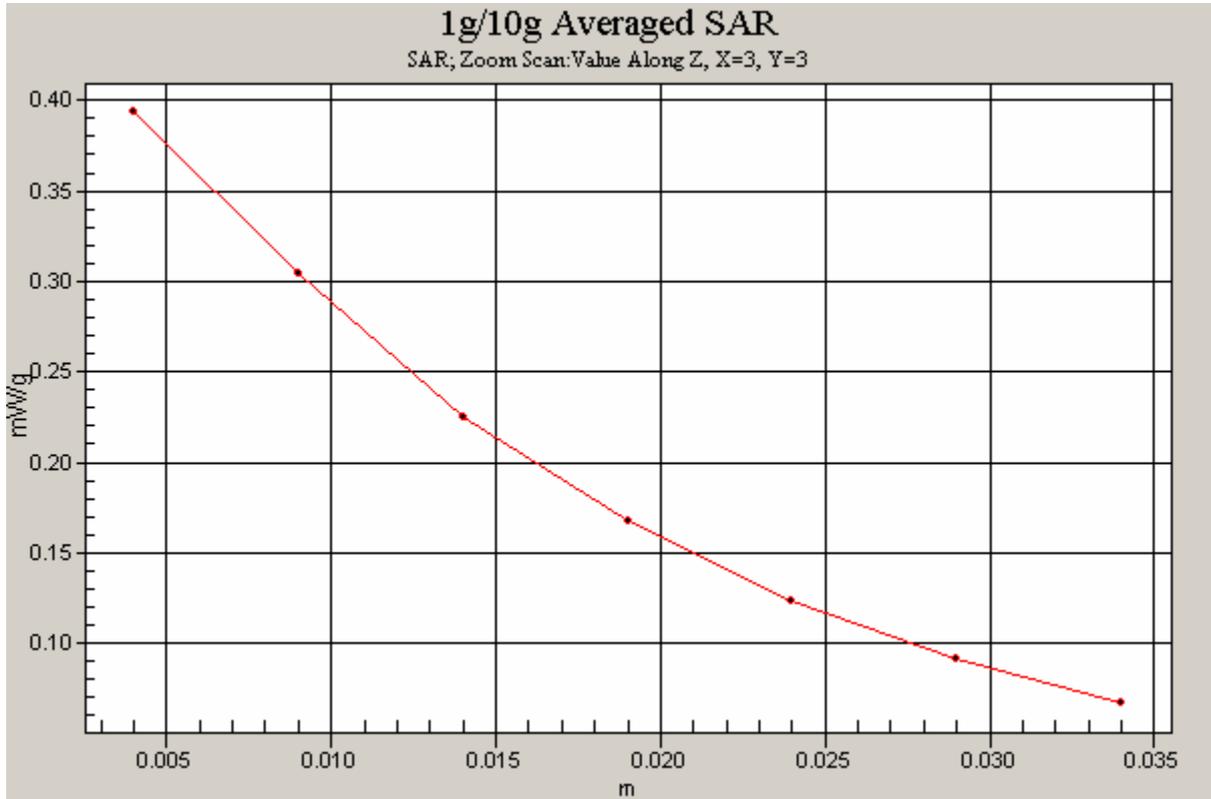


Figure 147 Z-Scan at power reference point (Body, Towards Phantom, WCDMA Band V Channel 4132)

WCDMA Band V Earphone Towards Ground Low

Communication System: WCDMA Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.989$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE4 Sn679;

Towards ground,Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.573 mW/g

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

Reference Value = 14.7 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.705 W/kg

SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.353 mW/g

Maximum value of SAR (measured) = 0.553 mW/g

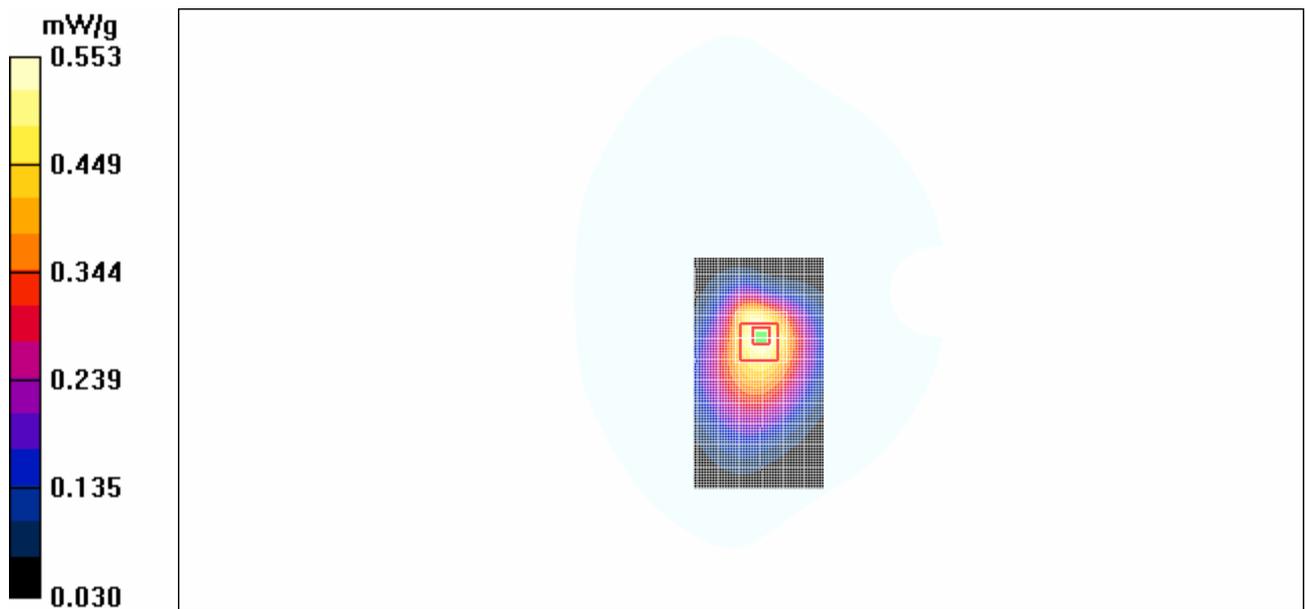


Figure 148 Body with Earphone, Towards Ground, WCDMA Band V, Channel 4132

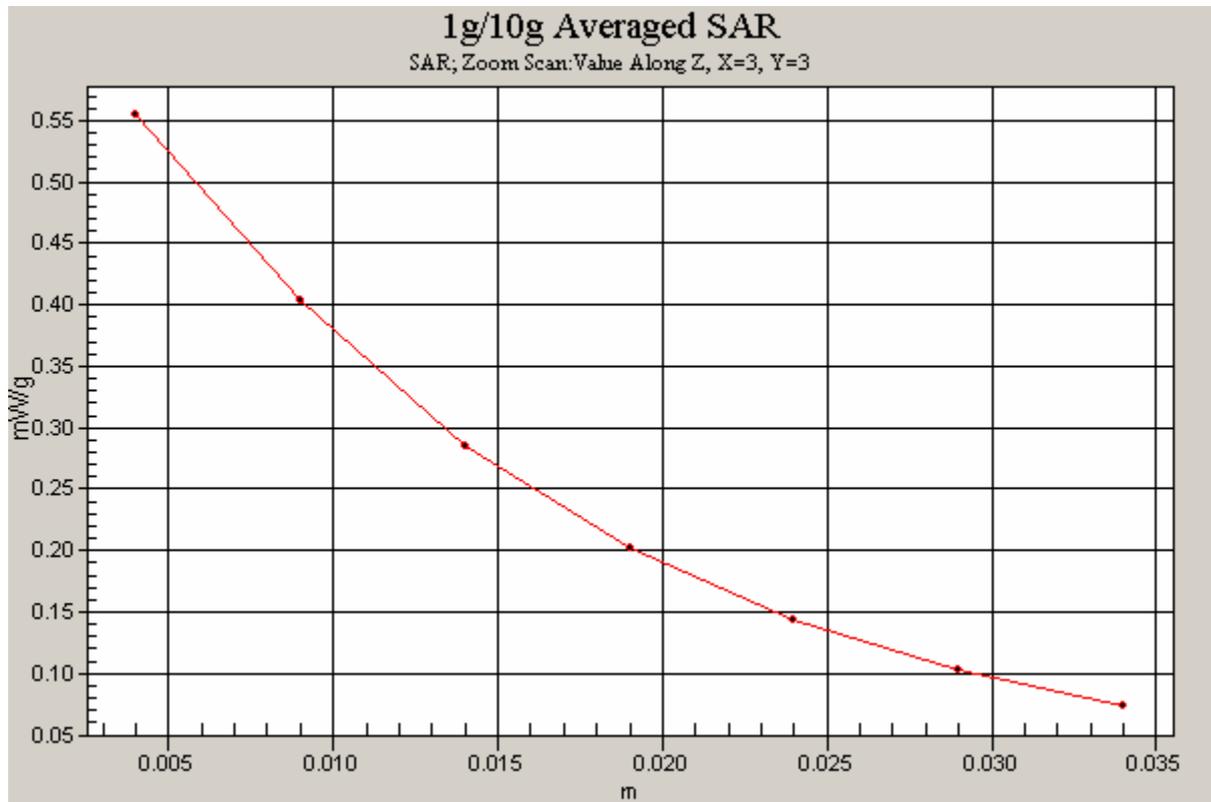


Figure 149 Z-Scan at power reference point (Body with Earphone, Towards Ground, WCDMA Band V, Channel 4132)

WCDMA Band V Bluetooth Earphone Towards Ground Low

Communication System: WCDMA Band V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.989$ mho/m; $\epsilon_r = 54.7$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(6.52, 6.52, 6.52);

Electronics: DAE4 Sn679;

Towards ground,Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.940 mW/g

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

Reference Value = 21.8 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.849 mW/g; SAR(10 g) = 0.611 mW/g

Maximum value of SAR (measured) = 0.900 mW/g

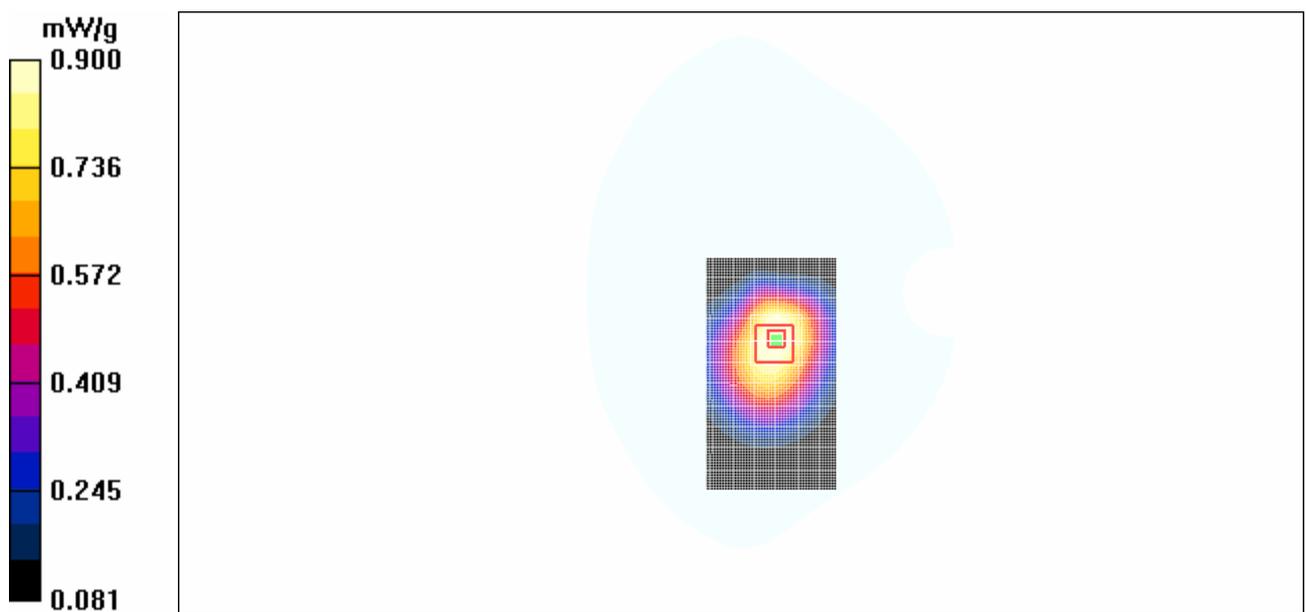


Figure 150 Body with Bluetooth earphone, Towards Ground, WCDMA Band V, Channel 4132

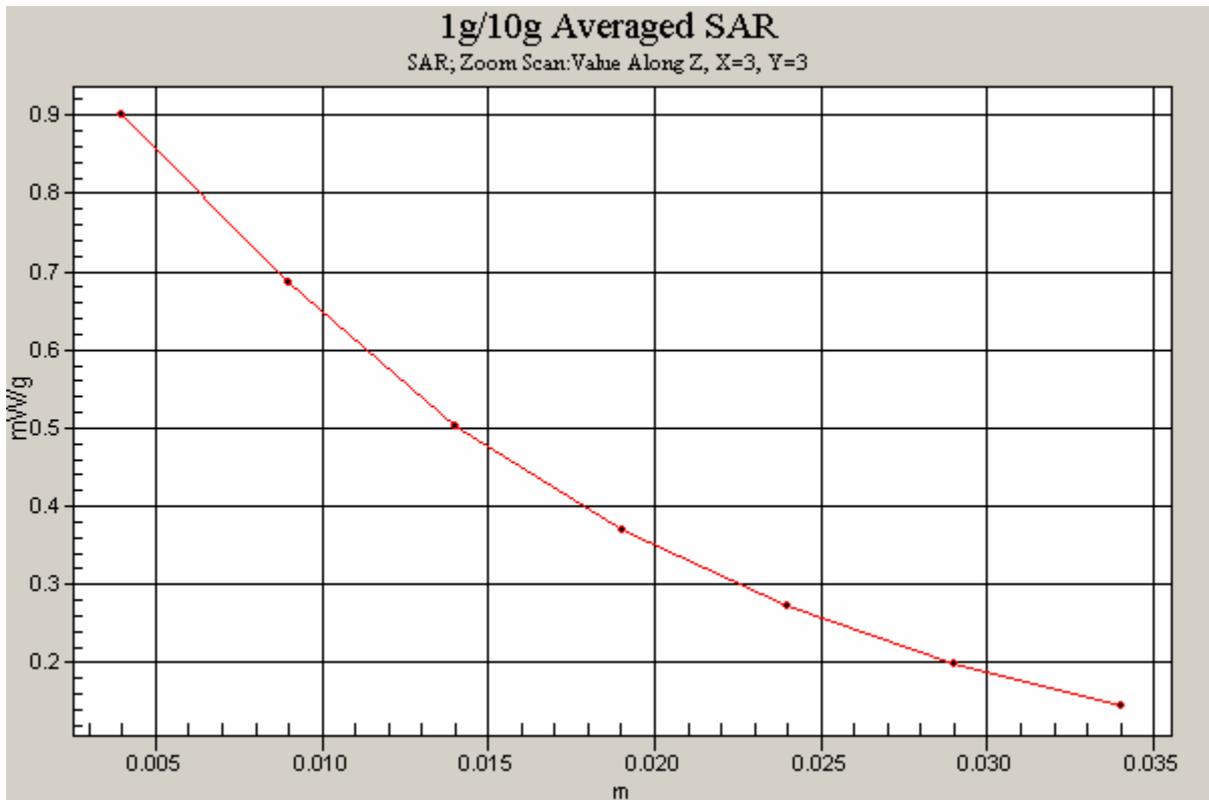


Figure 151 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, WCDMA Band V, Channel 4132)

ANNEX D: SYSTEM VALIDATION RESULTS

System Performance Check at 835 MHz

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 443

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

Medium: Head 835MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.94$ mho/m; $\epsilon_r = 42.44$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);

- Electronics: DAE4 Sn679;

d=15mm, Pin=250mW/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.54 mW/g

d=15mm, Pin=250mW/Zoom Scan (7x7x7) /Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.0 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 2.34 mW/g; SAR(10 g) = 1.53 mW/g

Maximum value of SAR (measured) = 2.52 mW/g

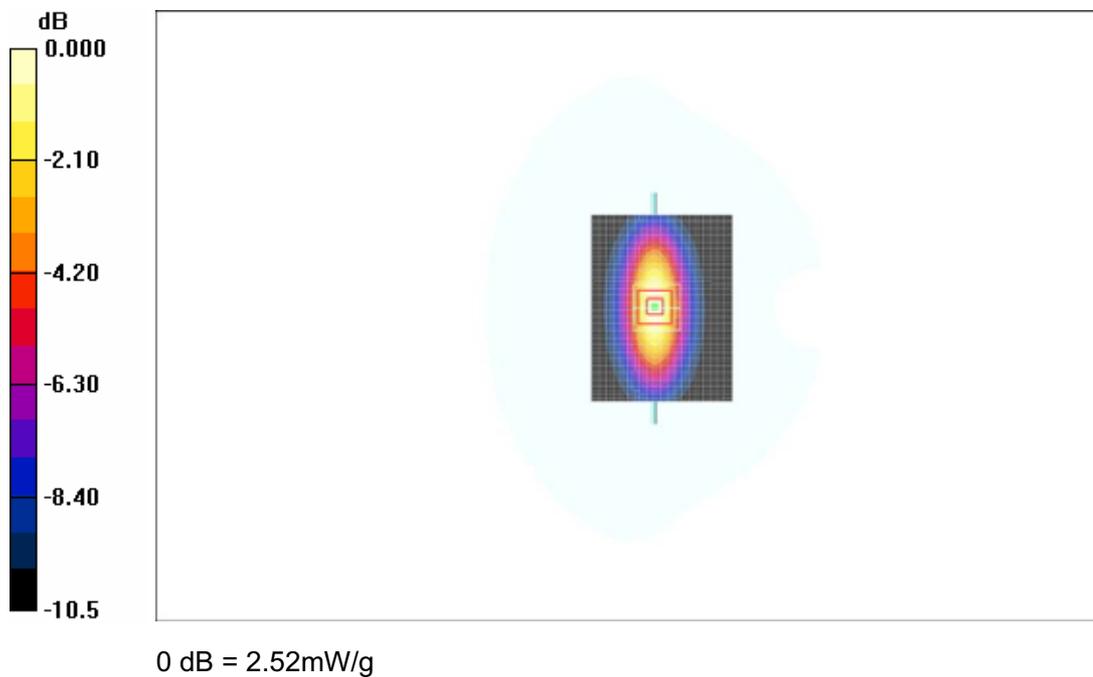


Figure 152 System Performance Check 835MHz 250mW

System Performance Check at 1900 MHz

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d018

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.87$; $\rho = 1000$ kg/m³

Probe: ET3DV6 - SN1531; ConvF(5.15, 5.15, 5.15);

Electronics: DAE4 Sn679;

d=10mm, Pin=250mW /Area Scan (101x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.8 mW/g

d=10mm, Pin=250Mw /Zoom Scan (7x7x7) /Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.8 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 9.36 mW/g; SAR(10 g) = 4.93 mW/g

Maximum value of SAR (measured) = 10.7 mW/g

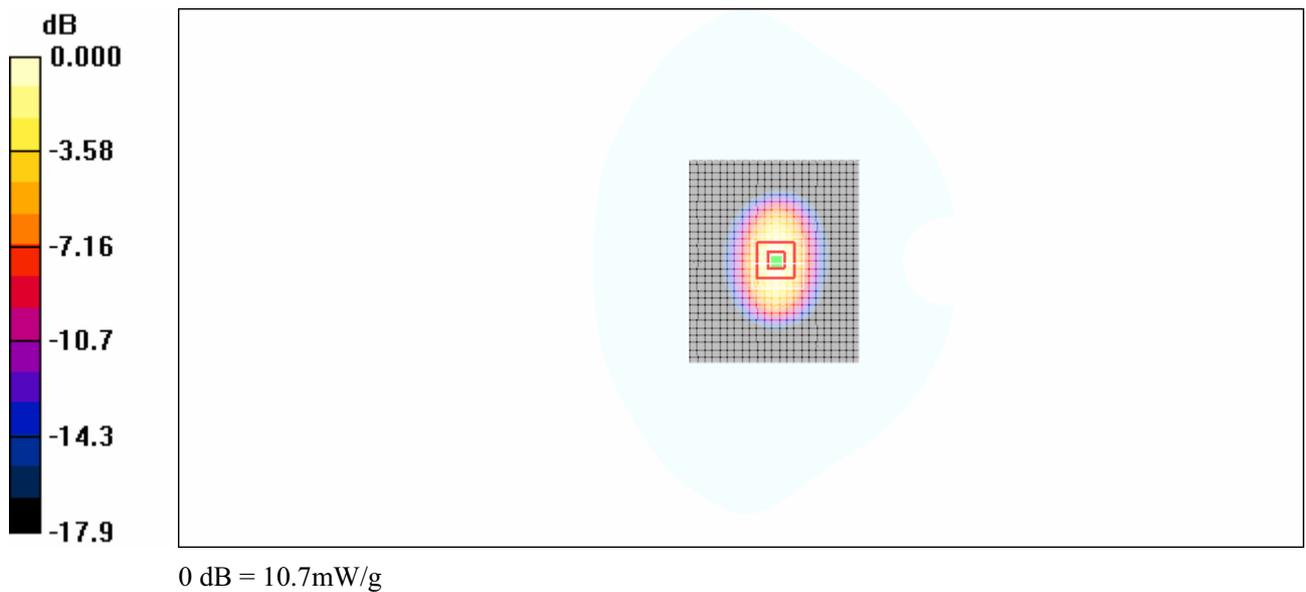


Figure 153 System Performance Check 1900MHz 250mW

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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 Accreditation Service (SAS)
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 **ATL (Auden)**

Certificate No: **ET3-1531_Jan08**

CALIBRATION CERTIFICATE

Object: **ET3DV6 - SN:1531**

Calibration procedure(s): **QA CAL-01.v8 and QA CAL-12.v5
Calibration procedure for dosimetric E-field probes**

Calibration date: **January 29, 2008**

Condition of the calibrated item: **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&PE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41496277	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Power sensor E4412A	MY41498067	29-Mar-07 (METAS, No. 217-00670)	Mar-08
Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (METAS, No. 217-00719)	Aug-08
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-07 (METAS, No. 217-00671)	Mar-08
Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (METAS, No. 217-00720)	Aug-08
Reference Probe ES3DV2	SN: 3013	2-Jan-08 (SPEAG, No. ES3-3013_Jan08)	Jan-09
DAE4	SN: 654	20-Apr-07 (SPEAG, No. DAE4-654_Apr07)	Apr-08
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390565	18-Oct-01 (SPEAG, in house check Oct-07)	In house check: Oct-08

	Name	Function	Signature
Calibrated by:	Kolja Pokovic	Technical Manager	
Approved by:	Nils Kuster	Quality Manager	

Issued: January 29, 2008

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

TA Technology (Shanghai) Co., Ltd.

Test Report

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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 Accreditation Service (SAS)
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 _{x,y,z}	sensitivity in free space
ConF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ 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
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E²-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * 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_{x,y,z}**: 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_{x,y,z} * *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 ± 50 MHz to ± 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.