

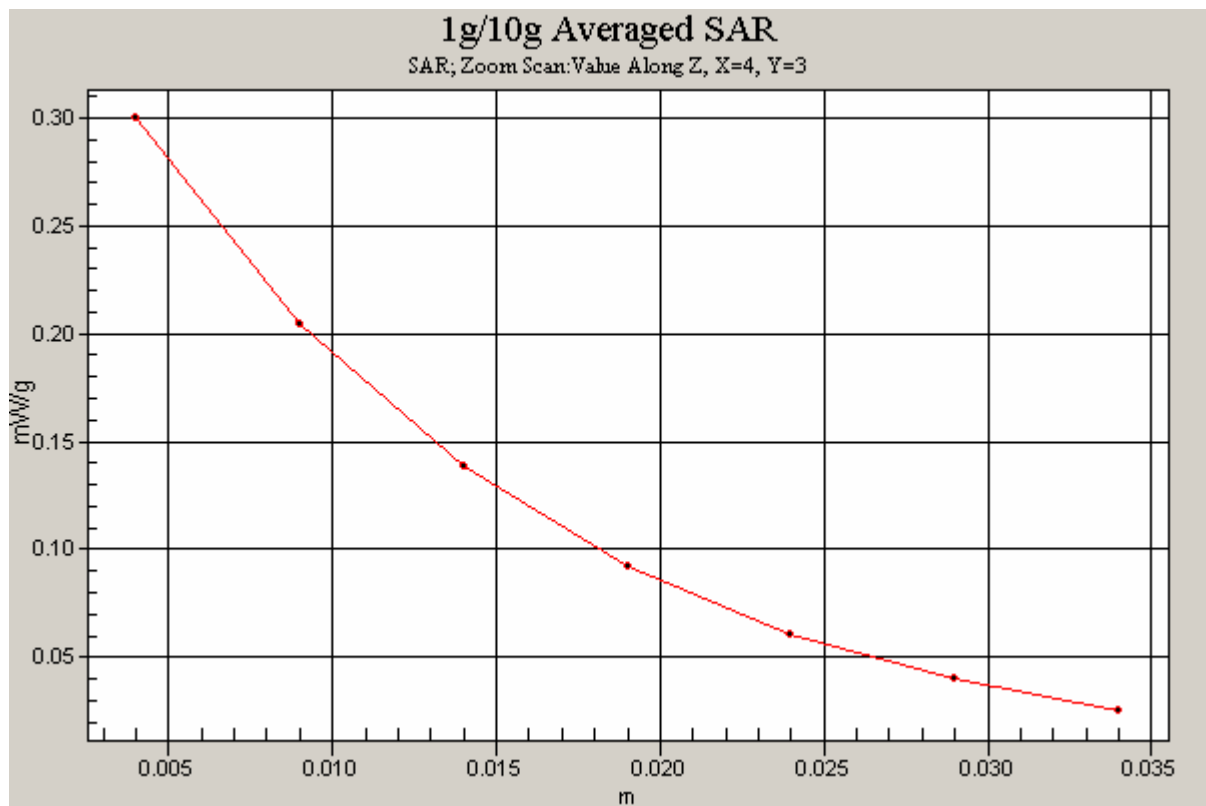


Figure 165 Z-Scan at power reference point (Body, Towards Phantom, Open GSM 1900 GPRS Channel 661)

GSM 1900 GPRS Towards Phantom Low Open

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Phantom Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.385 mW/g

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

Reference Value = 11.1 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.228 mW/g

Maximum value of SAR (measured) = 0.373 mW/g

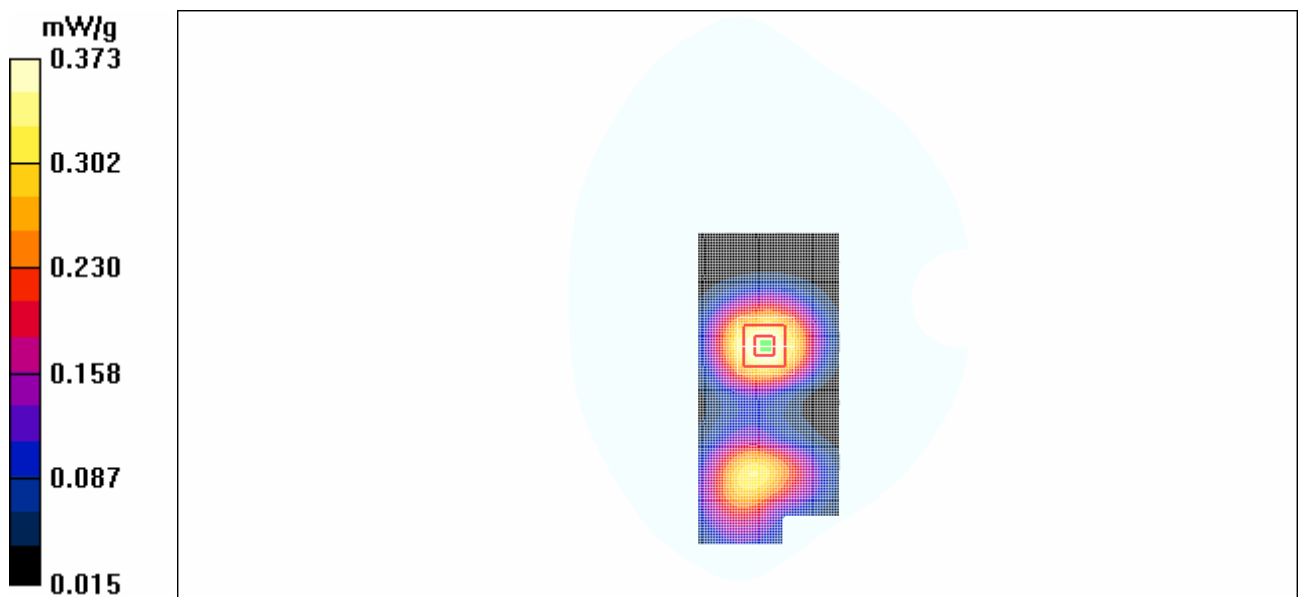


Figure 166 Body, Towards Phantom, Open GSM 1900 GPRS Channel 512

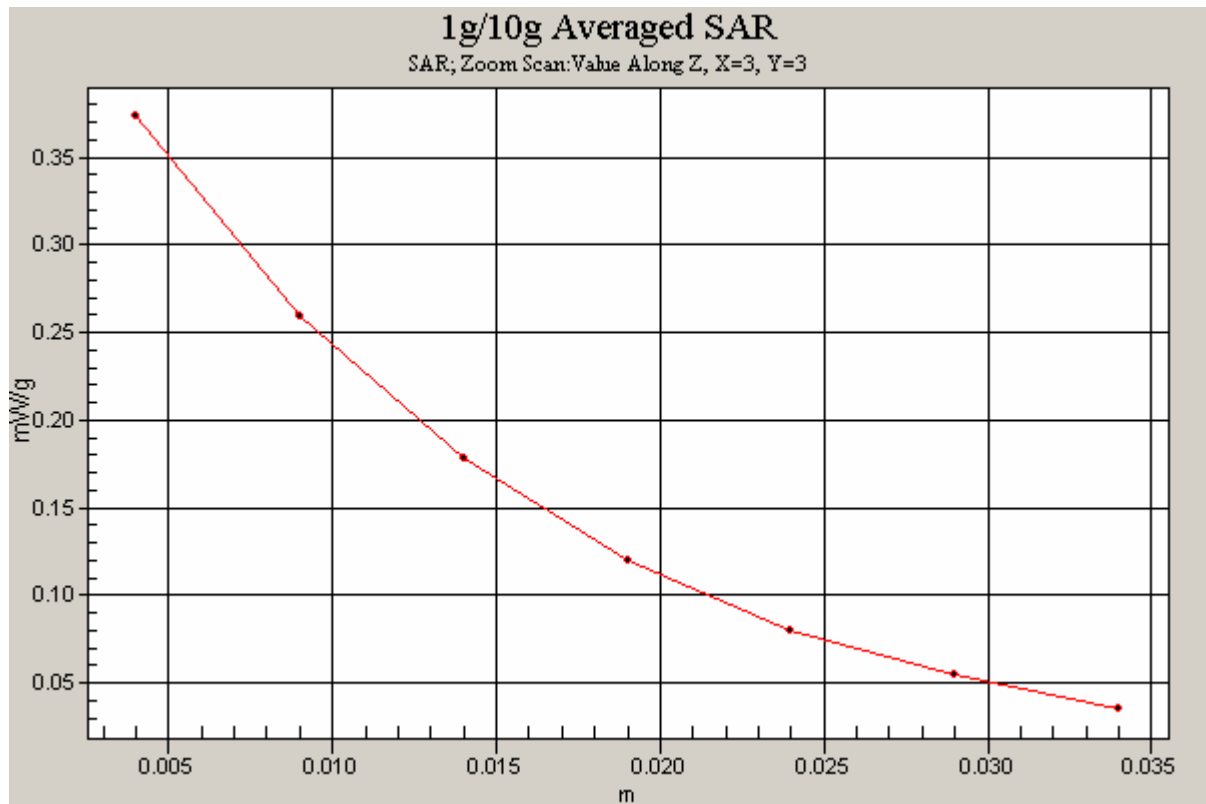


Figure 167 Z-Scan at power reference point (Body, Towards Phantom, Open GSM 1900 GPRS Channel 512)

GSM 1900 EGPRS Towards Ground Low Open

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Ground Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.308 mW/g

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

Reference Value = 7.38 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 0.399 W/kg

SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.178 mW/g

Maximum value of SAR (measured) = 0.304 mW/g

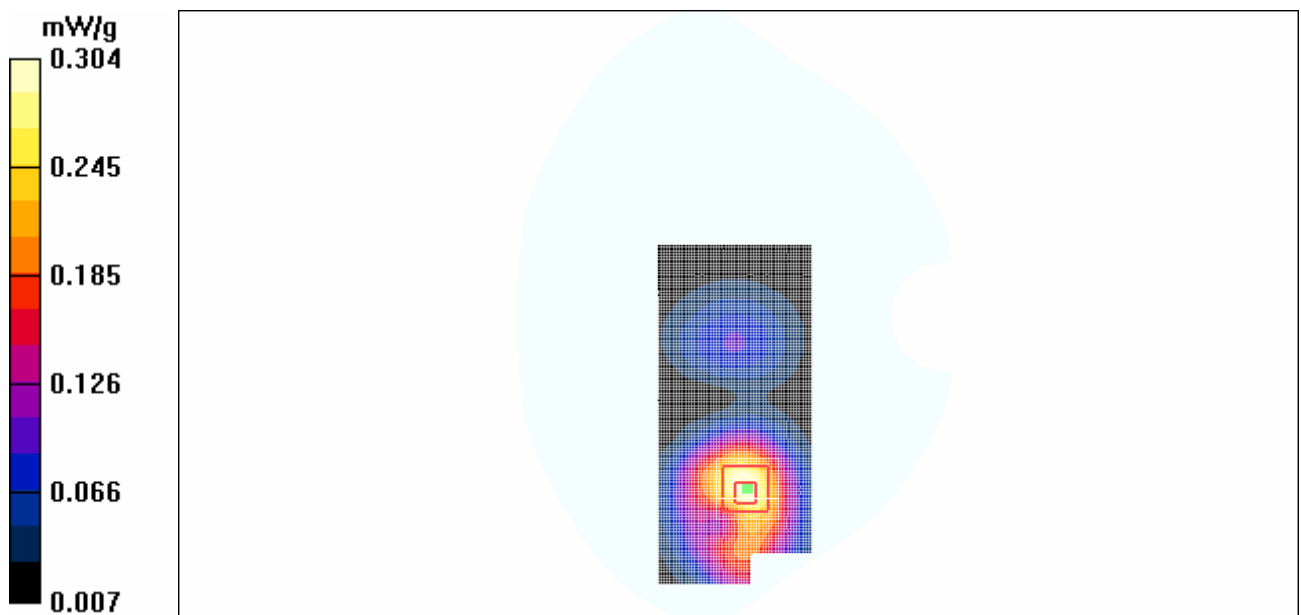


Figure 168 Body, Towards Ground, Open GSM 1900 EGPRS Channel 512

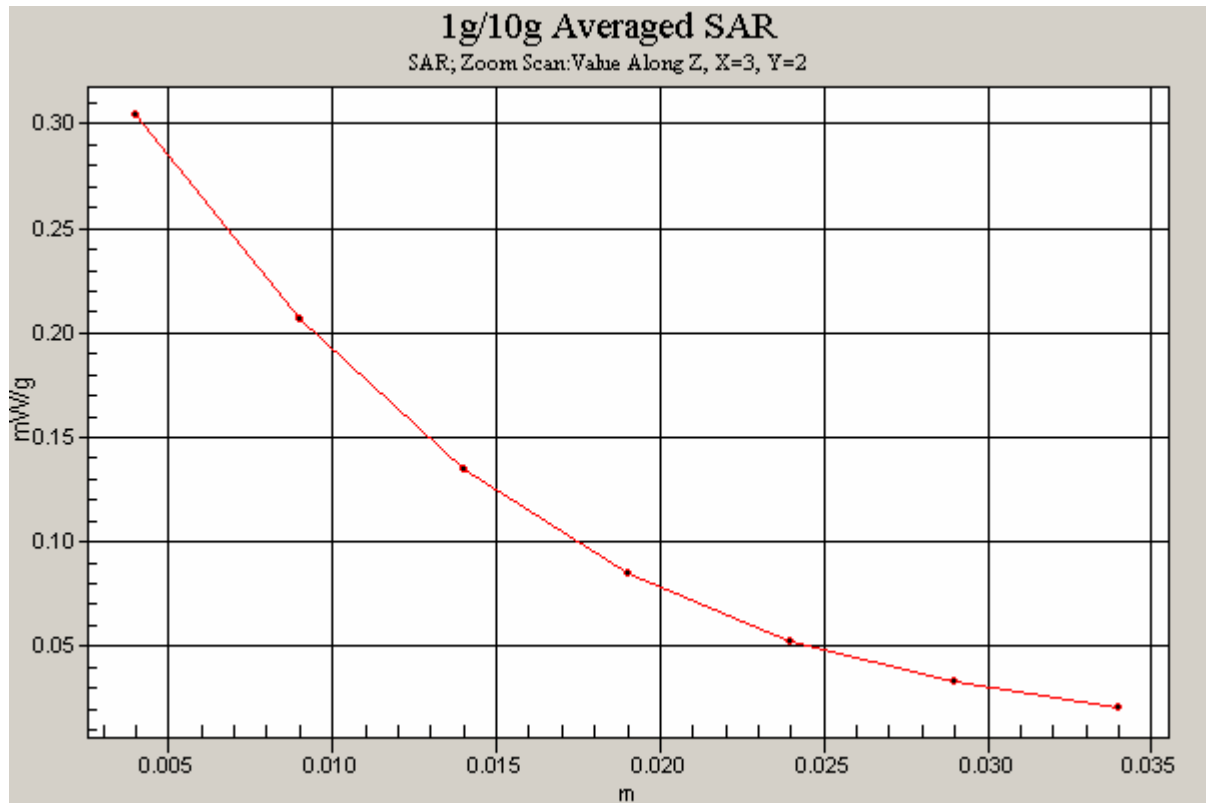


Figure 169 Z-Scan at power reference point (Body, Towards Ground, Open GSM 1900 EGPRS Channel 512)

GSM 1900 Left Cheek High Close

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

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

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

Reference Value = 6.17 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.204 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.165 mW/g

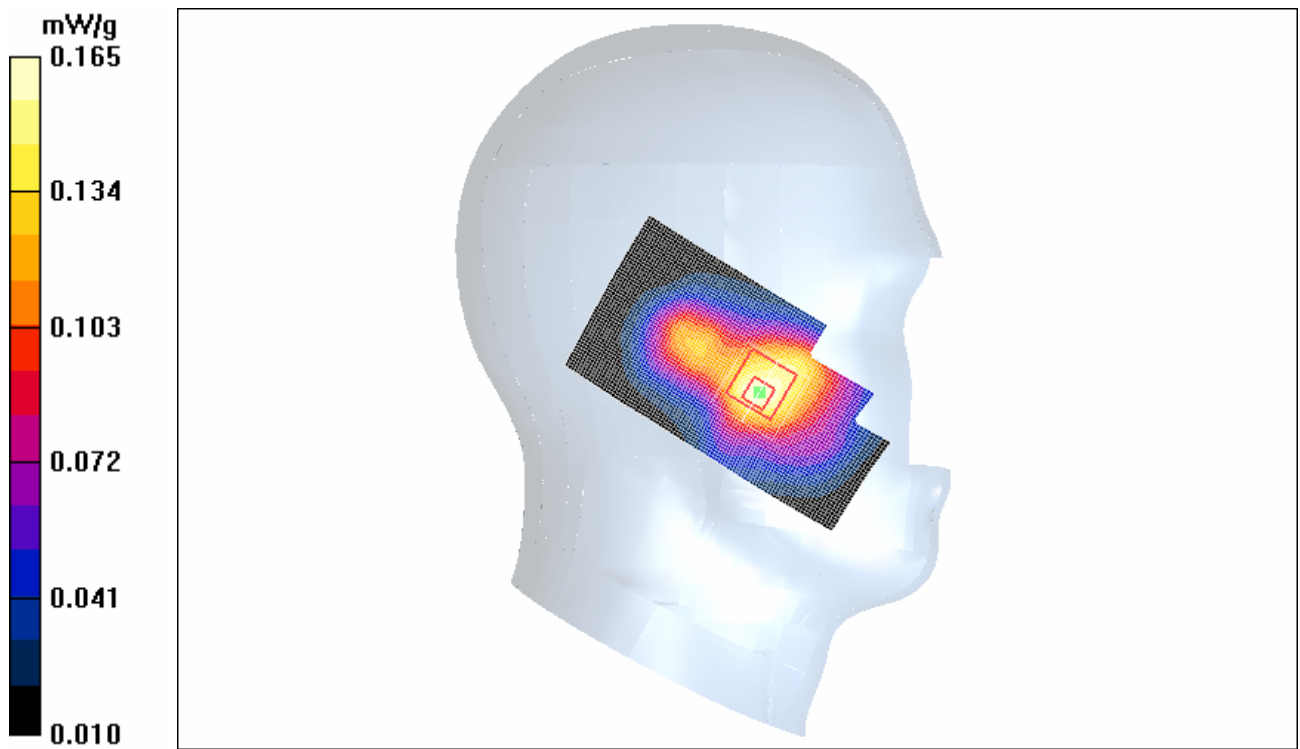


Figure 170 Left Hand Touch Cheek Close GSM 1900 Channel 810

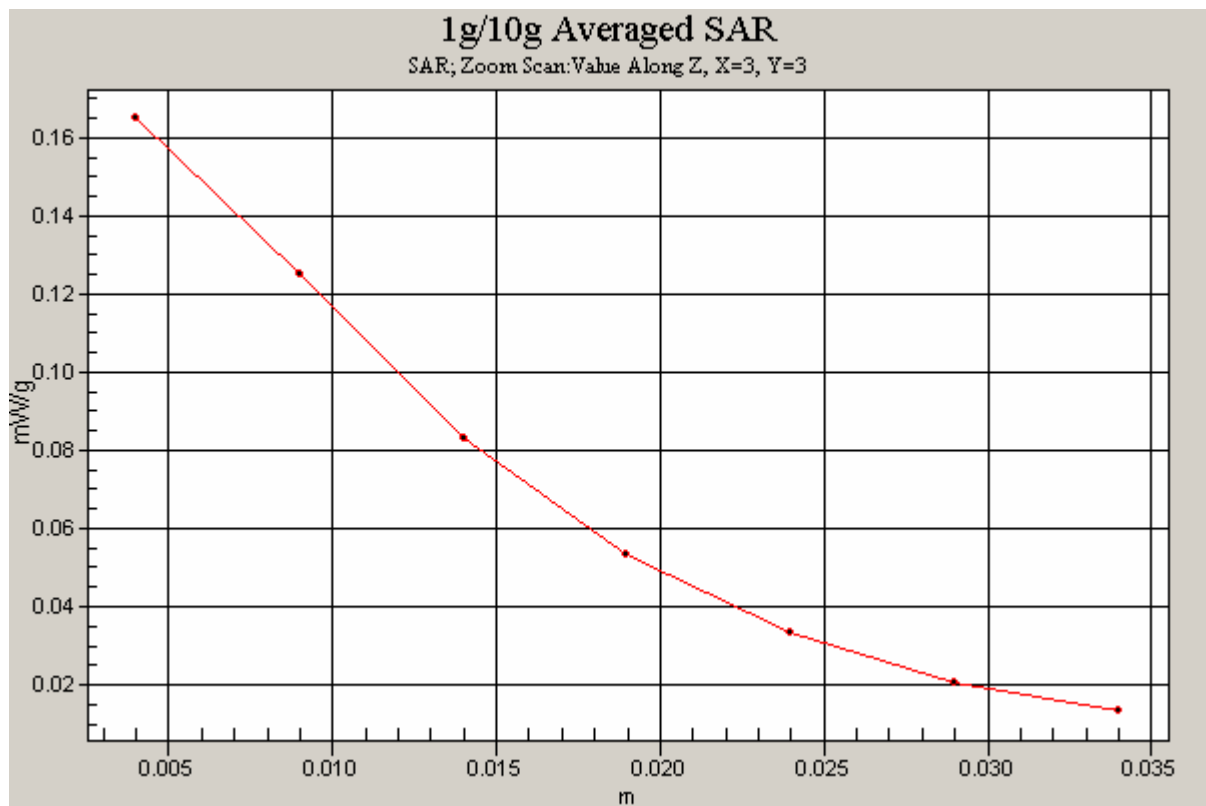


Figure 171 Z-Scan at power reference point (Left Hand Touch Cheek Close GSM 1900 Channel 810)

GSM 1900 Left Cheek Middle Close

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.205 mW/g

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

Reference Value = 6.87 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.195 mW/g

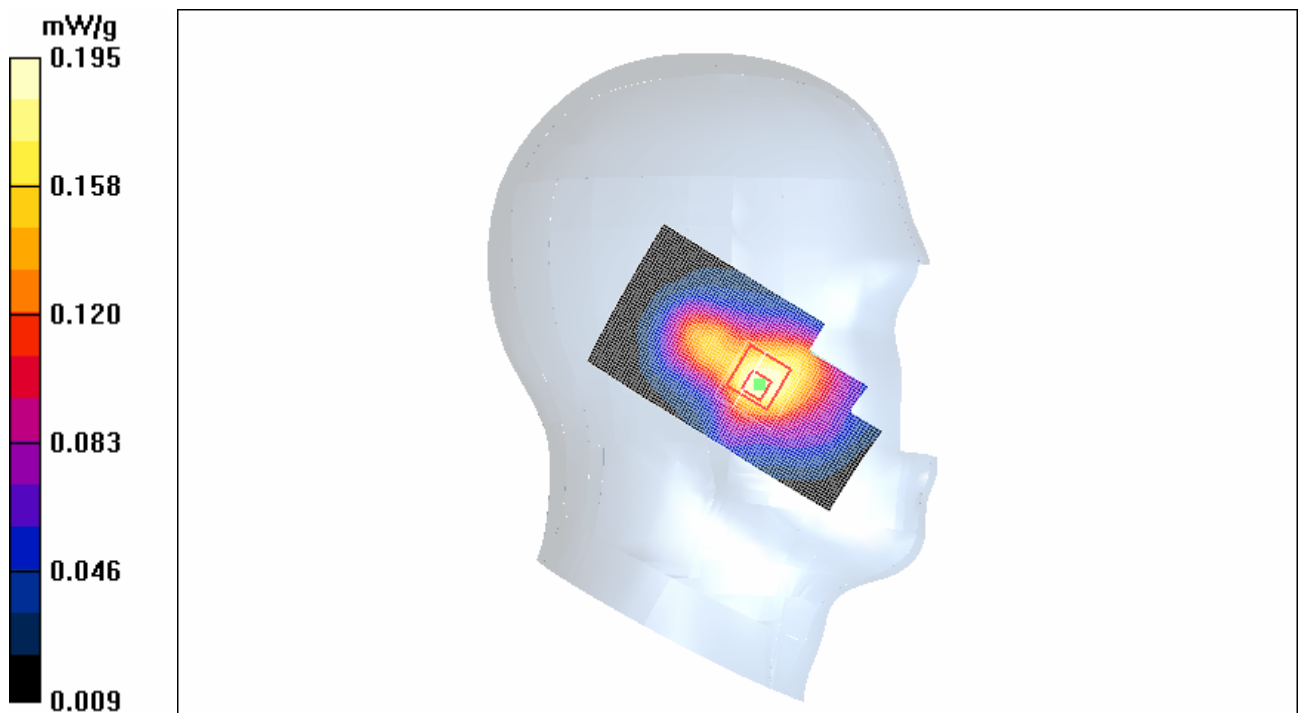


Figure 172 Left Hand Touch Cheek Close GSM 1900 Channel 661

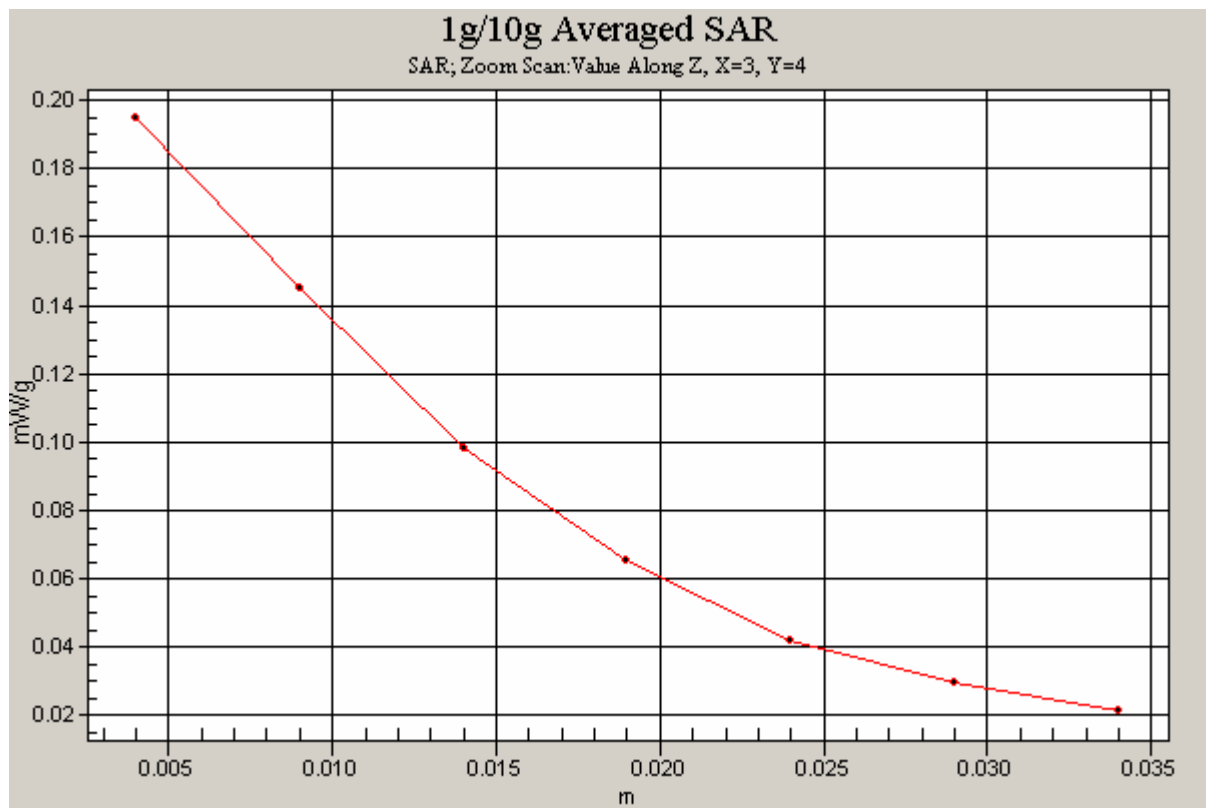


Figure 173 Z-Scan at power reference point (Left Hand Touch Cheek Close GSM 1900 Channel 661)

GSM 1900 Left Cheek Low Close

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; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.253 mW/g

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

Reference Value = 6.88 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 0.309 W/kg

SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.144 mW/g

Maximum value of SAR (measured) = 0.244 mW/g

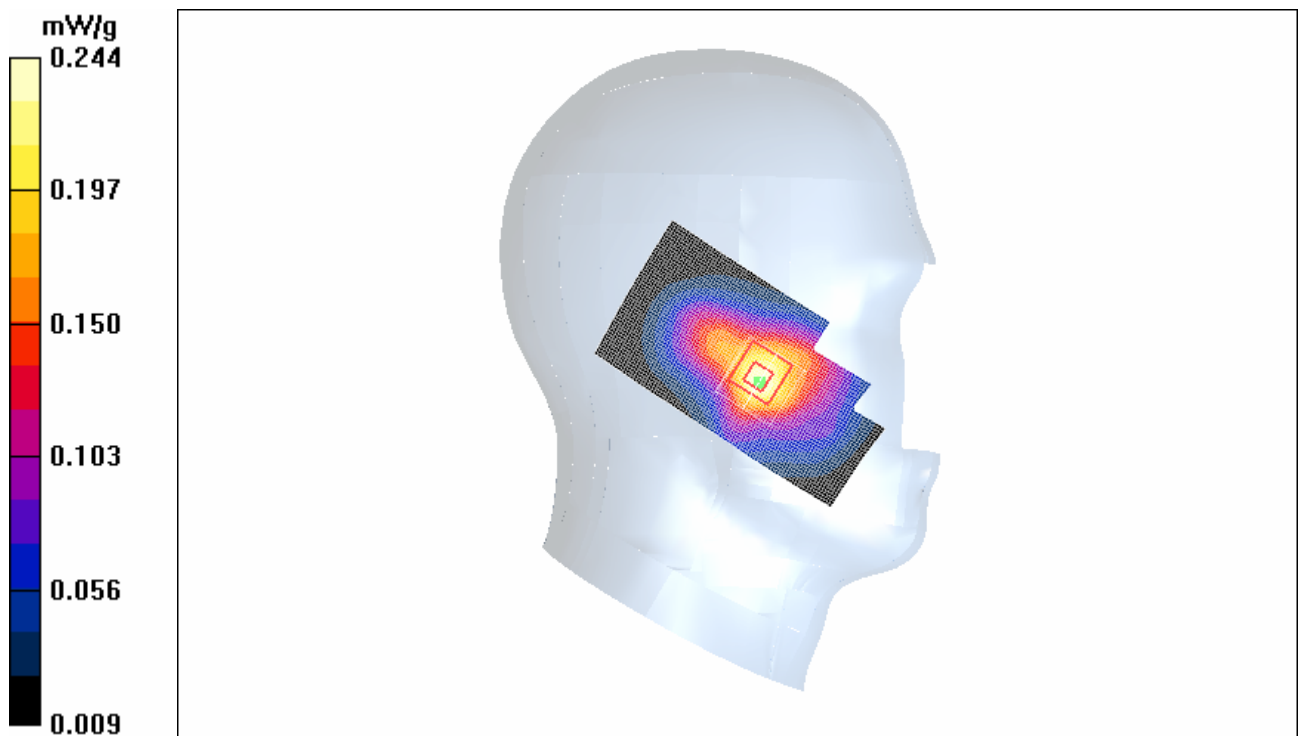


Figure 174 Left Hand Touch Cheek Close GSM 1900 Channel 512

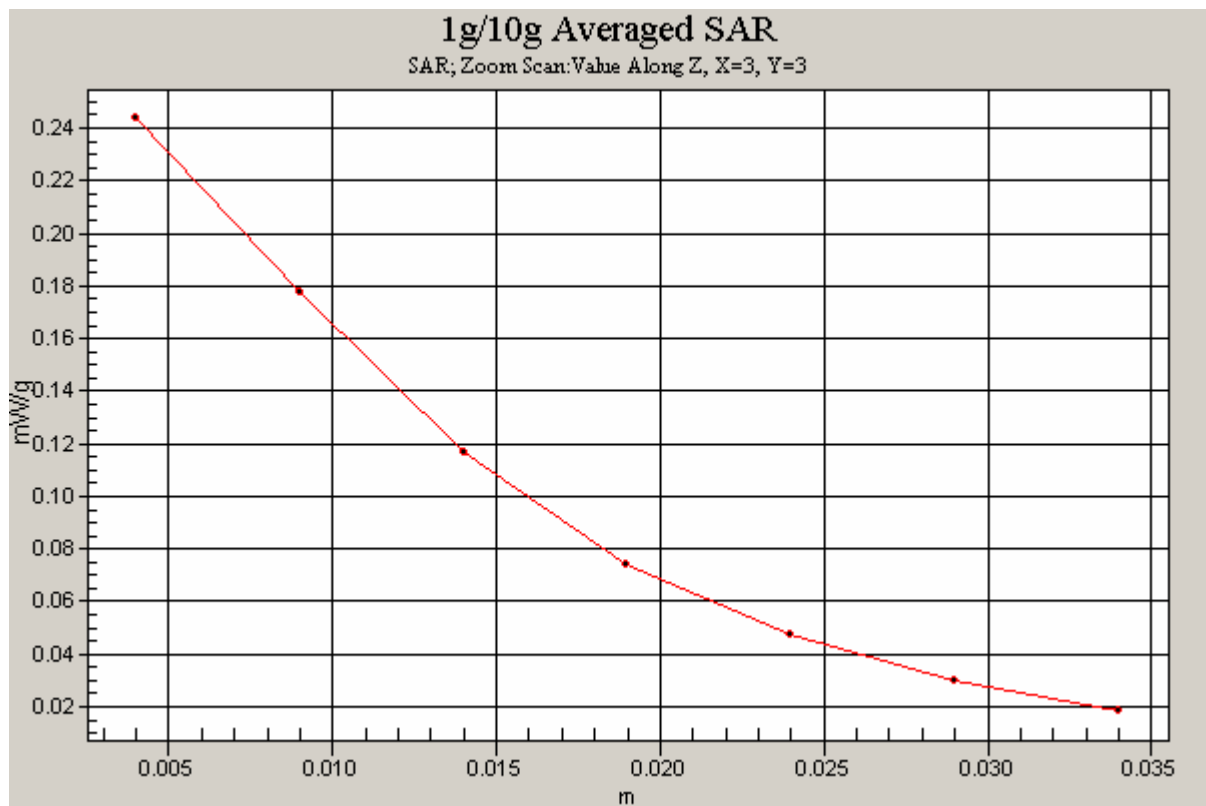


Figure 175 Z-Scan at power reference point (Left Hand Touch Cheek Close GSM 1900 Channel 512)

GSM 1900 Left Tilt High Close

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.127 mW/g

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

Reference Value = 8.79 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.070 mW/g

Maximum value of SAR (measured) = 0.117 mW/g

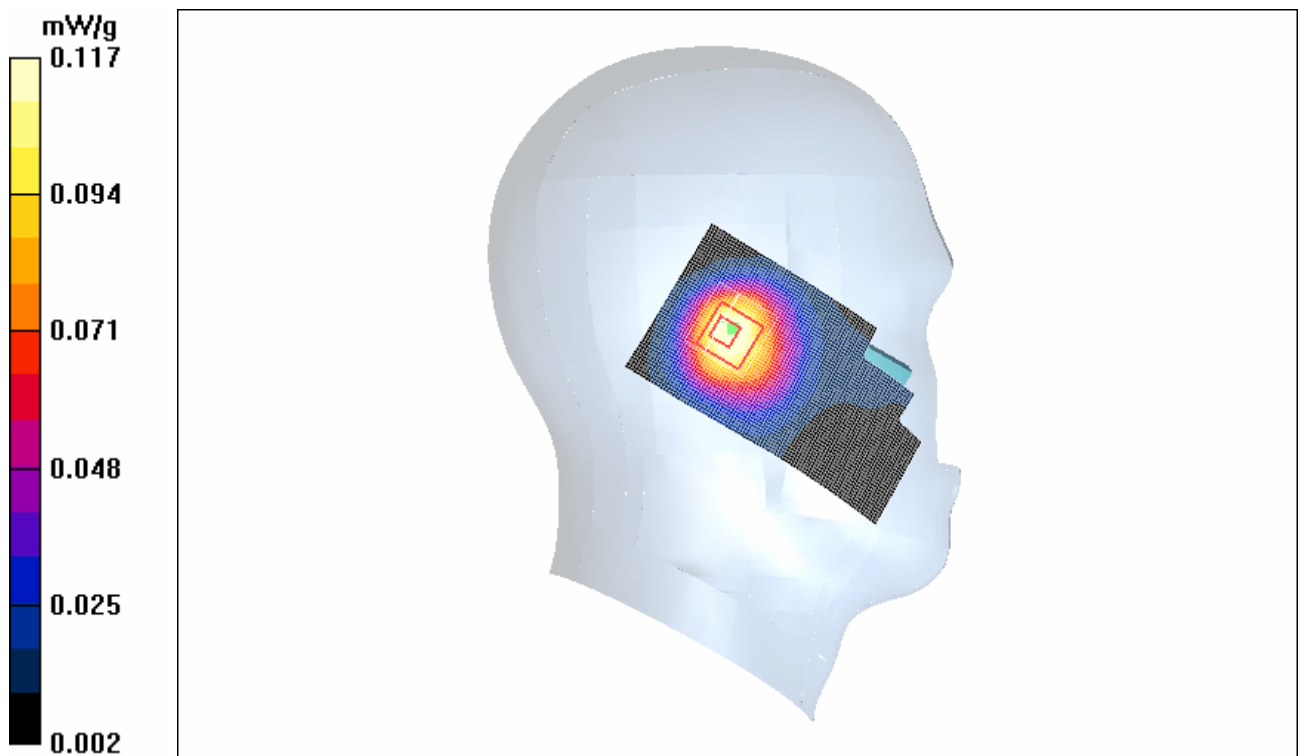


Figure 176 Left Hand Tilt 15°Close GSM 1900 Channel 810

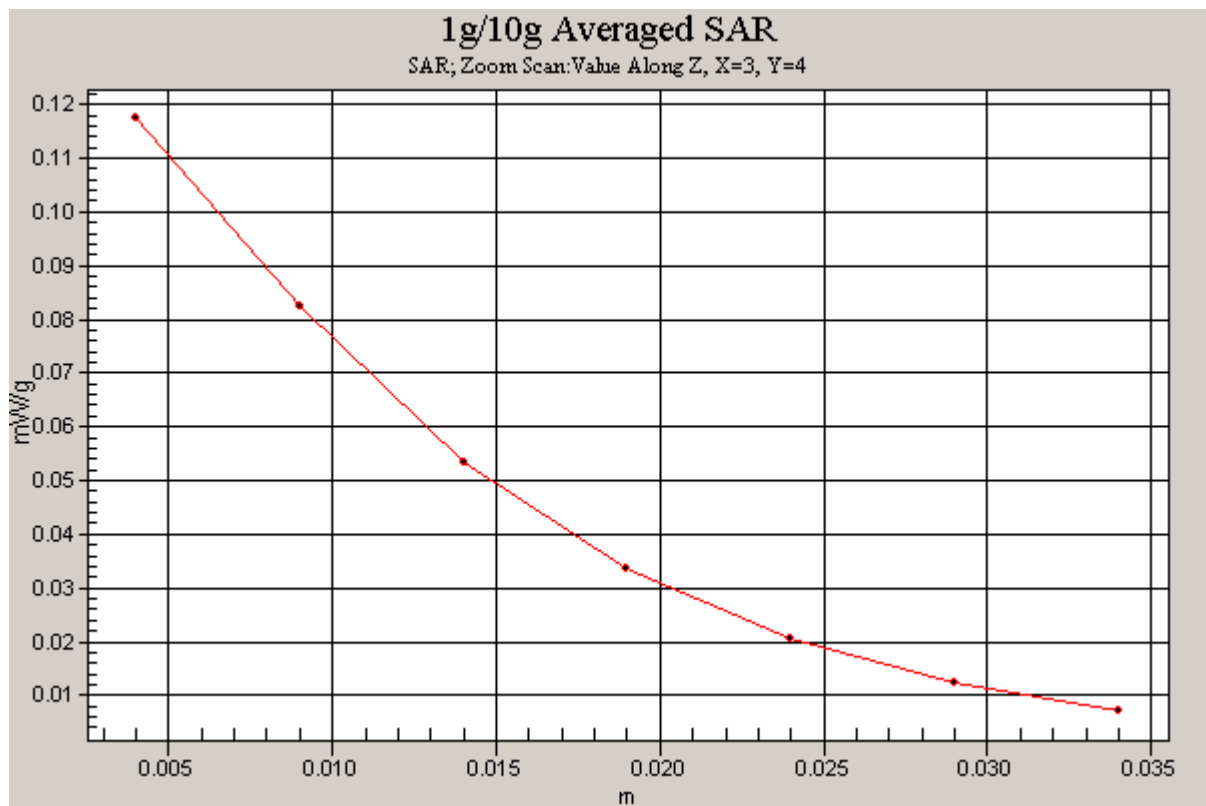


Figure 177 Z-Scan at power reference point (Left Hand Tilt 15° Close GSM 1900 Channel 810)

GSM 1900 Left Tilt Middle Close

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.128 mW/g

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

Reference Value = 9.07 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.157 W/kg

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.073 mW/g

Maximum value of SAR (measured) = 0.120 mW/g

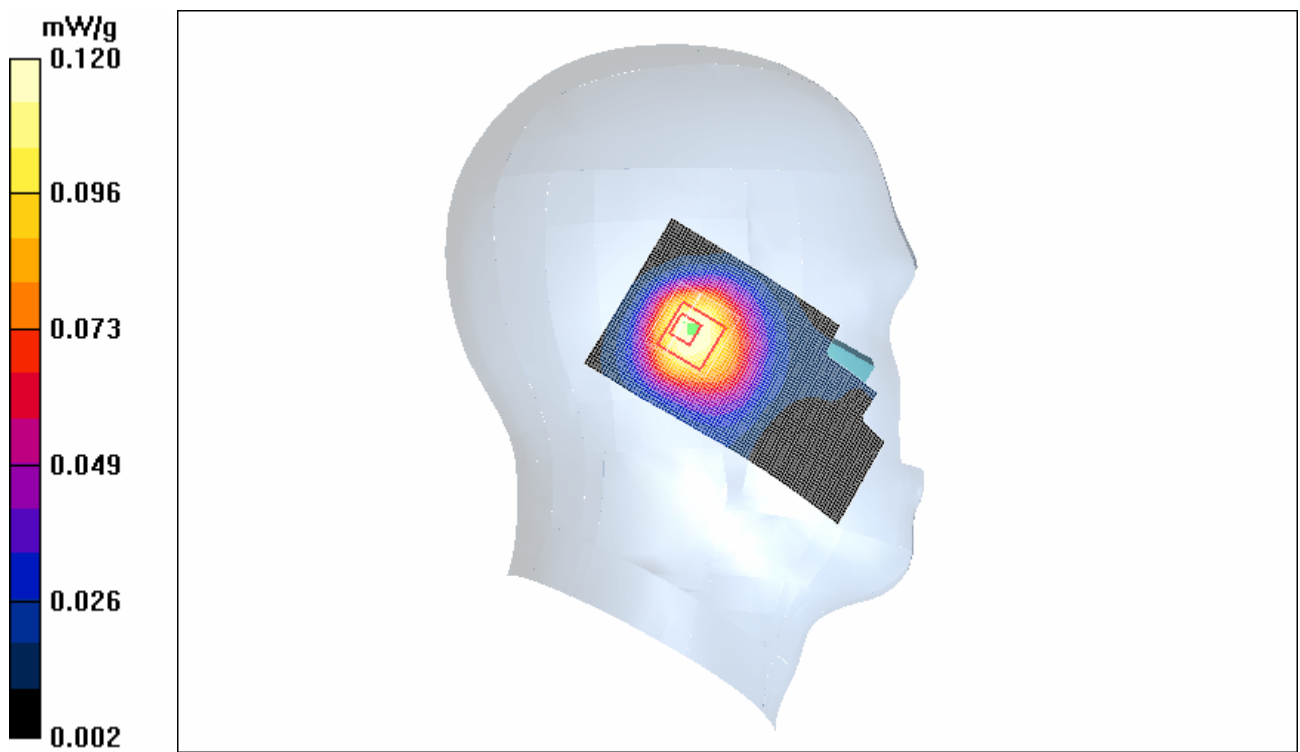


Figure 178 Left Hand Tilt 15° Close GSM 1900 Channel 661

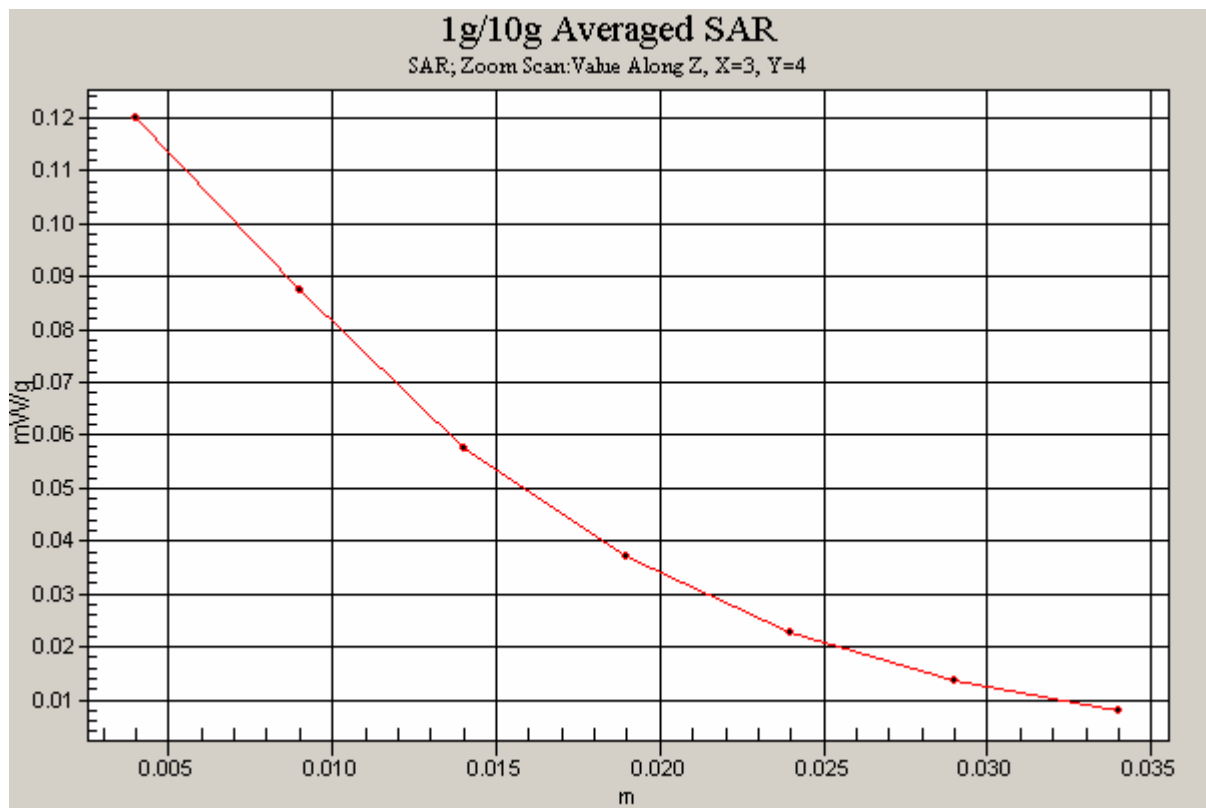


Figure 179 Z-Scan at power reference point (Left Hand Tilt 15° Close GSM 1900 Channel 661)

GSM 1900 Left Tilt Low Close

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; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.134 mW/g

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

Reference Value = 9.68 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 0.166 W/kg

SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.127 mW/g

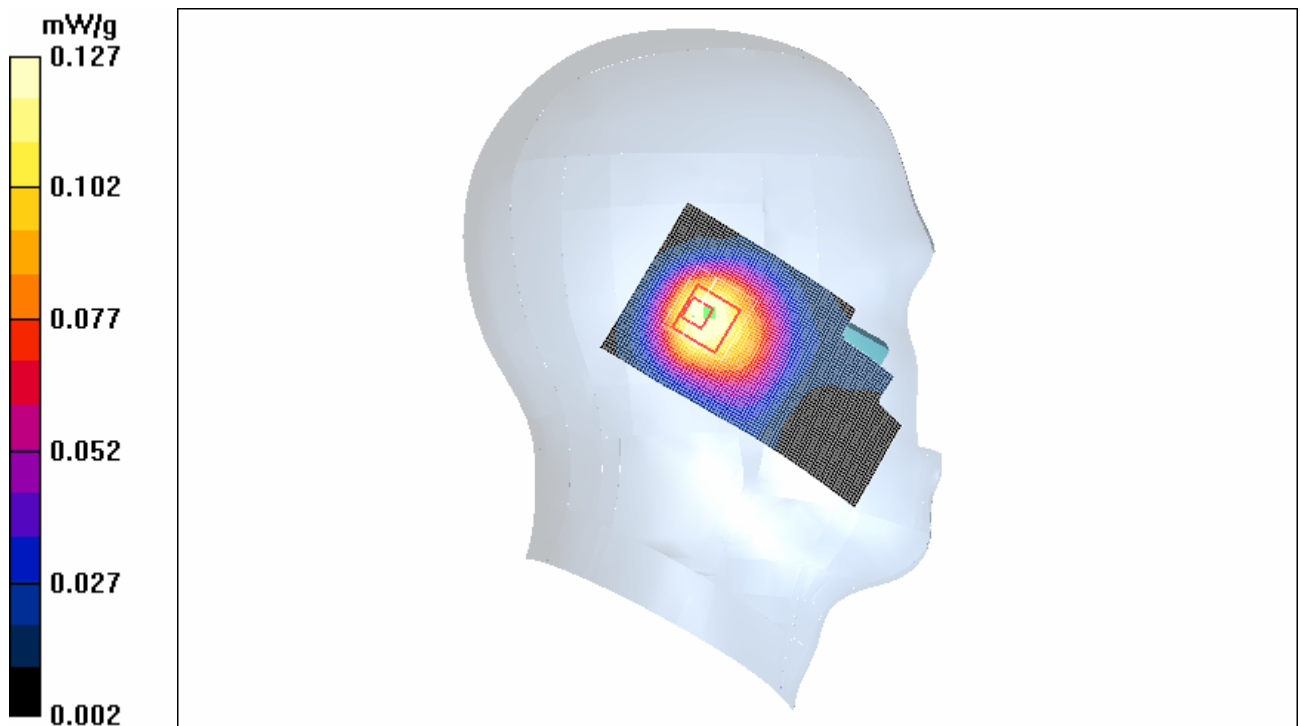


Figure 180 Left Hand Tilt 15° Close GSM 1900 Channel 512

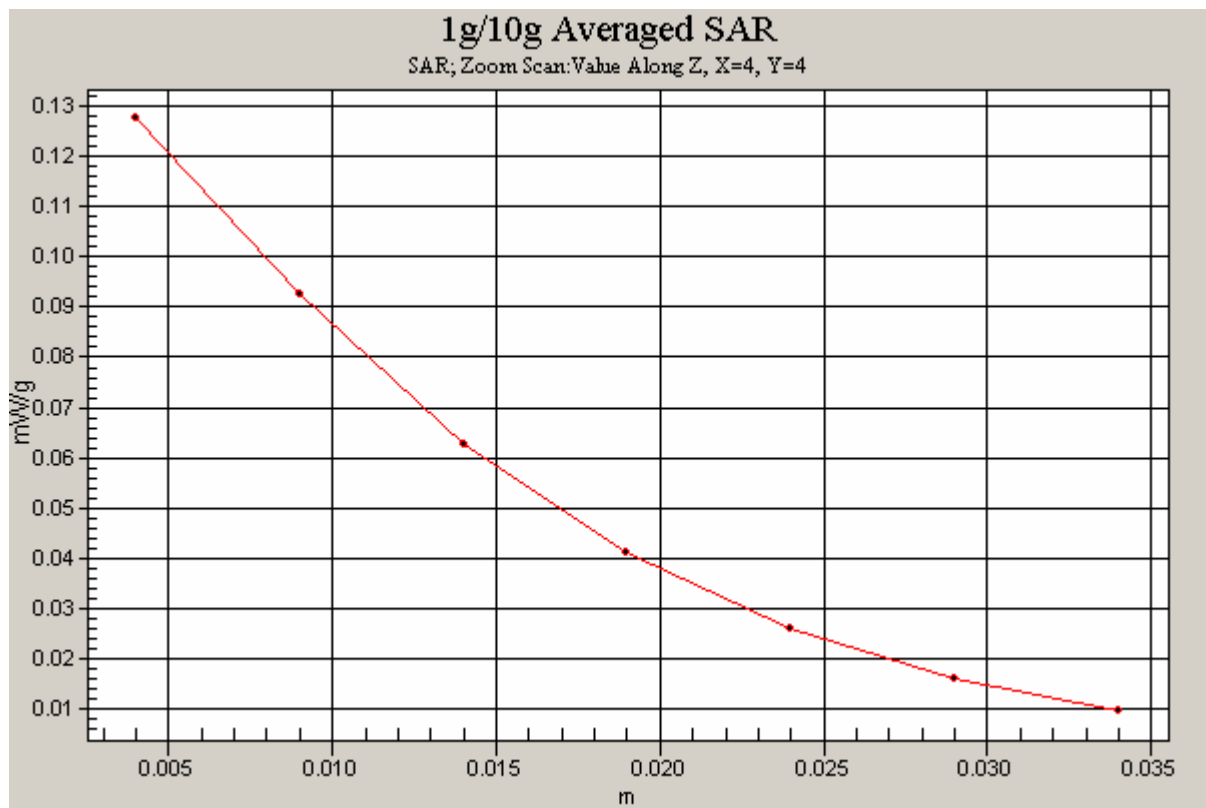


Figure 181 Z-Scan at power reference point (Left Hand Tilt 15° Close GSM 1900 Channel 512)

GSM 1900 Right Cheek High Close

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.175 mW/g

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

Reference Value = 5.16 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.270 W/kg

SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.088 mW/g

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

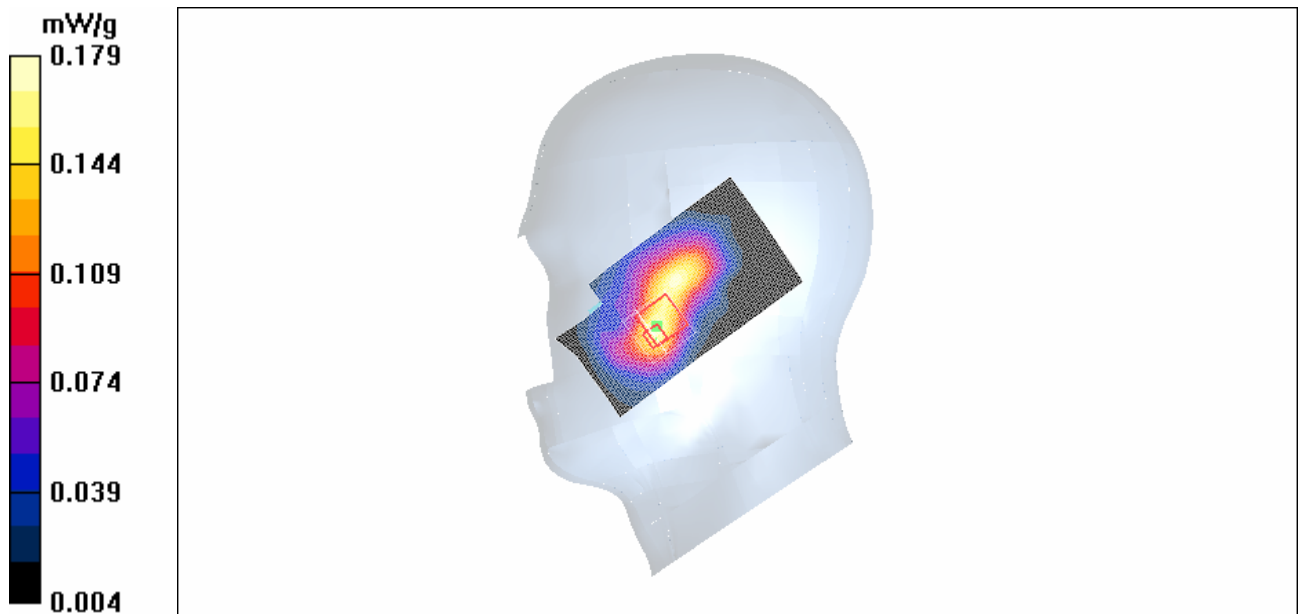


Figure 182 Right Hand Touch Cheek Close GSM 1900 Channel 810

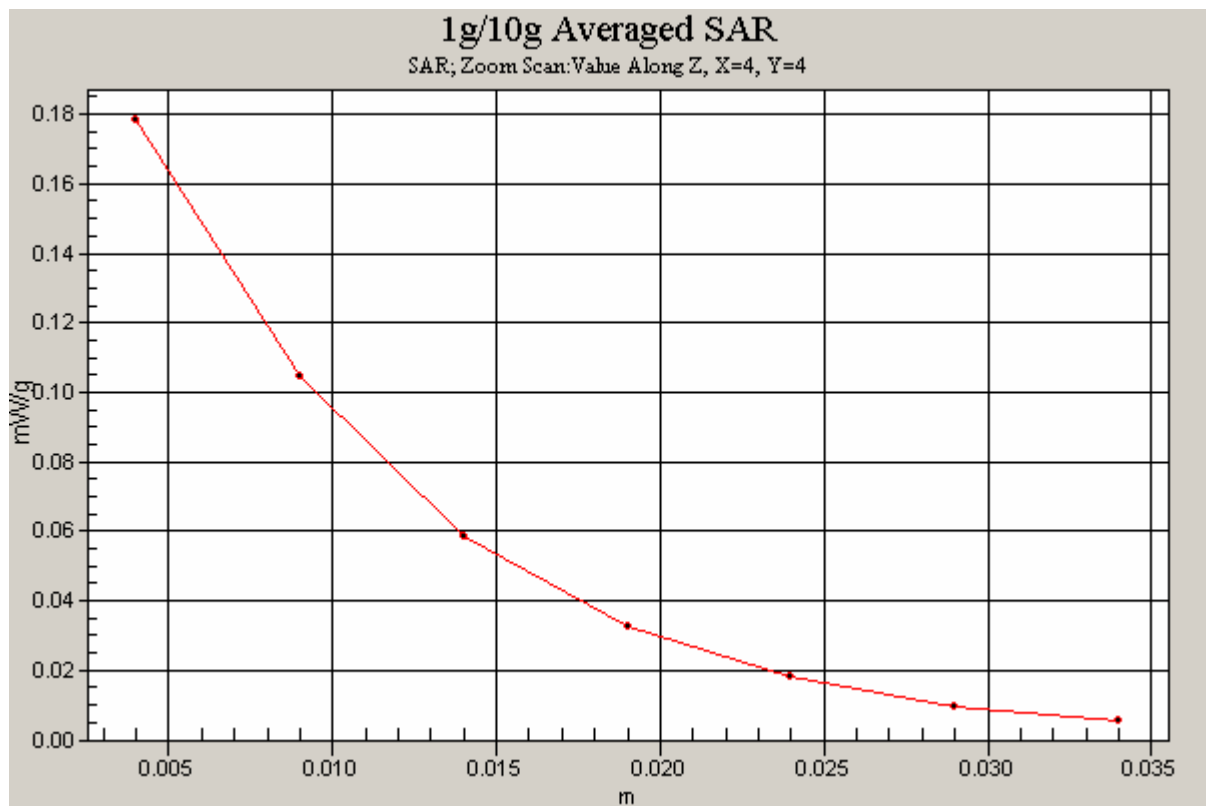


Figure 183 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 810)

GSM 1900 Right Cheek Middle Close

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.206 mW/g

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

Reference Value = 5.40 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 0.246 W/kg

SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.206 mW/g

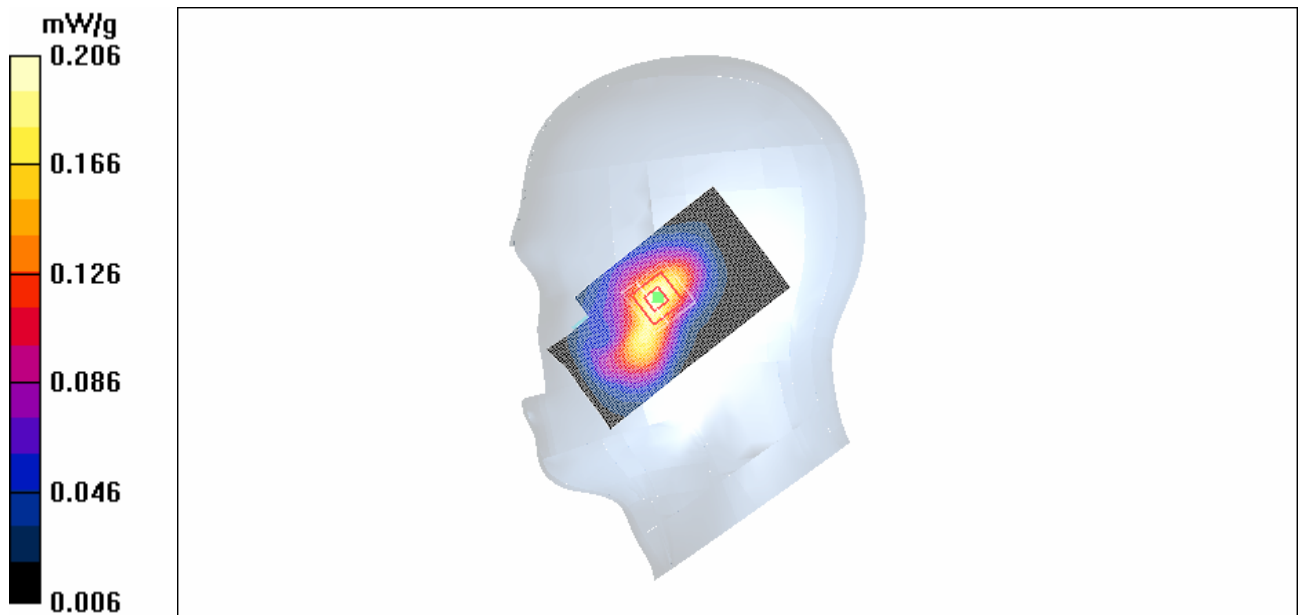


Figure 184 Right Hand Touch Cheek Close GSM 1900 Channel 661

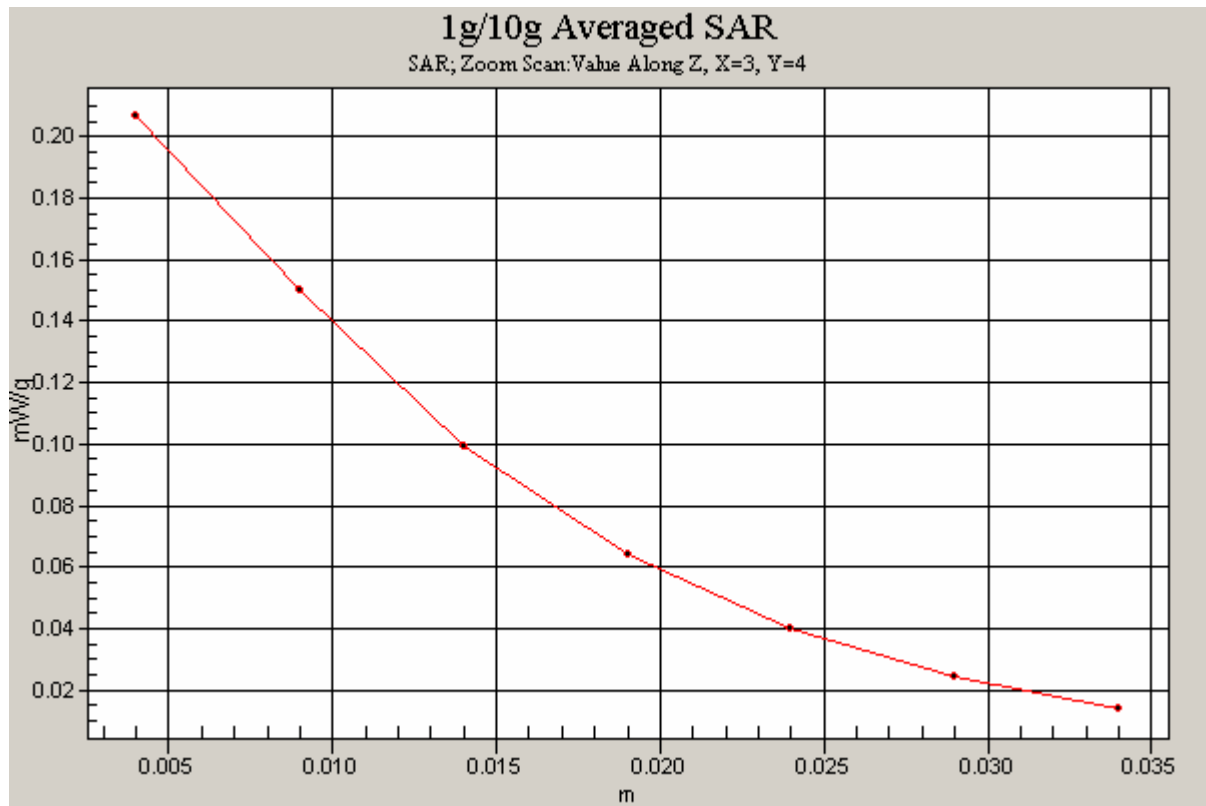


Figure 185 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 661)

GSM 1900 Right Cheek Low Close

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; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.240 mW/g

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

Reference Value = 5.89 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.142 mW/g

Maximum value of SAR (measured) = 0.248 mW/g

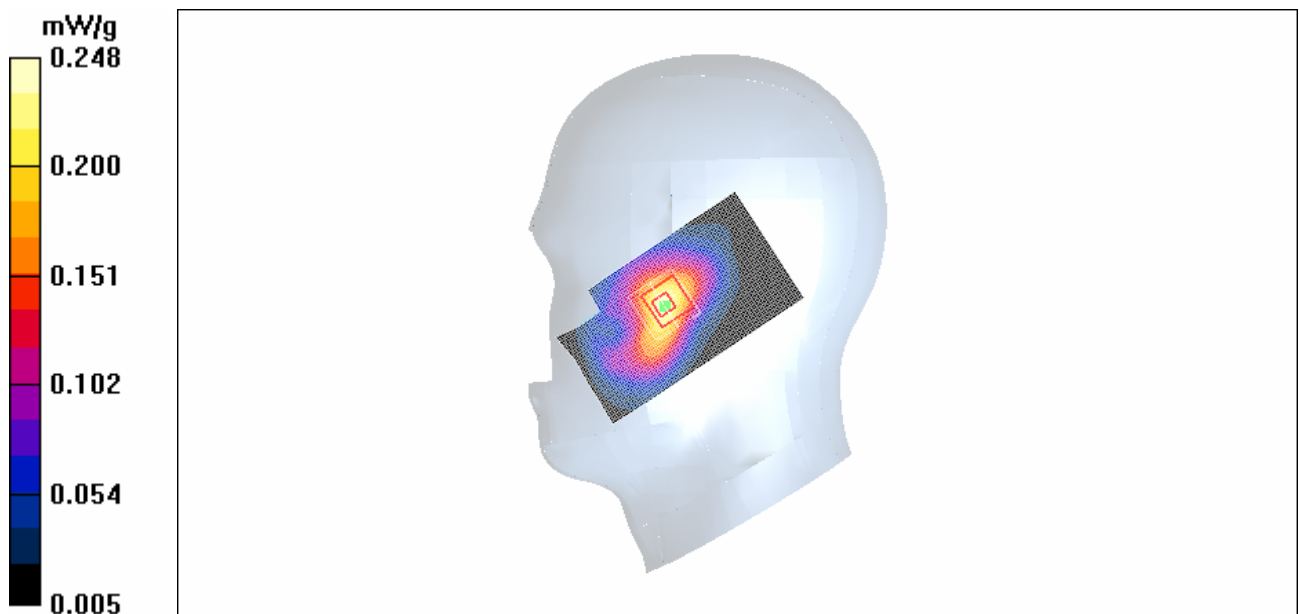


Figure 186 Right Hand Touch Cheek Close GSM 1900 Channel 512

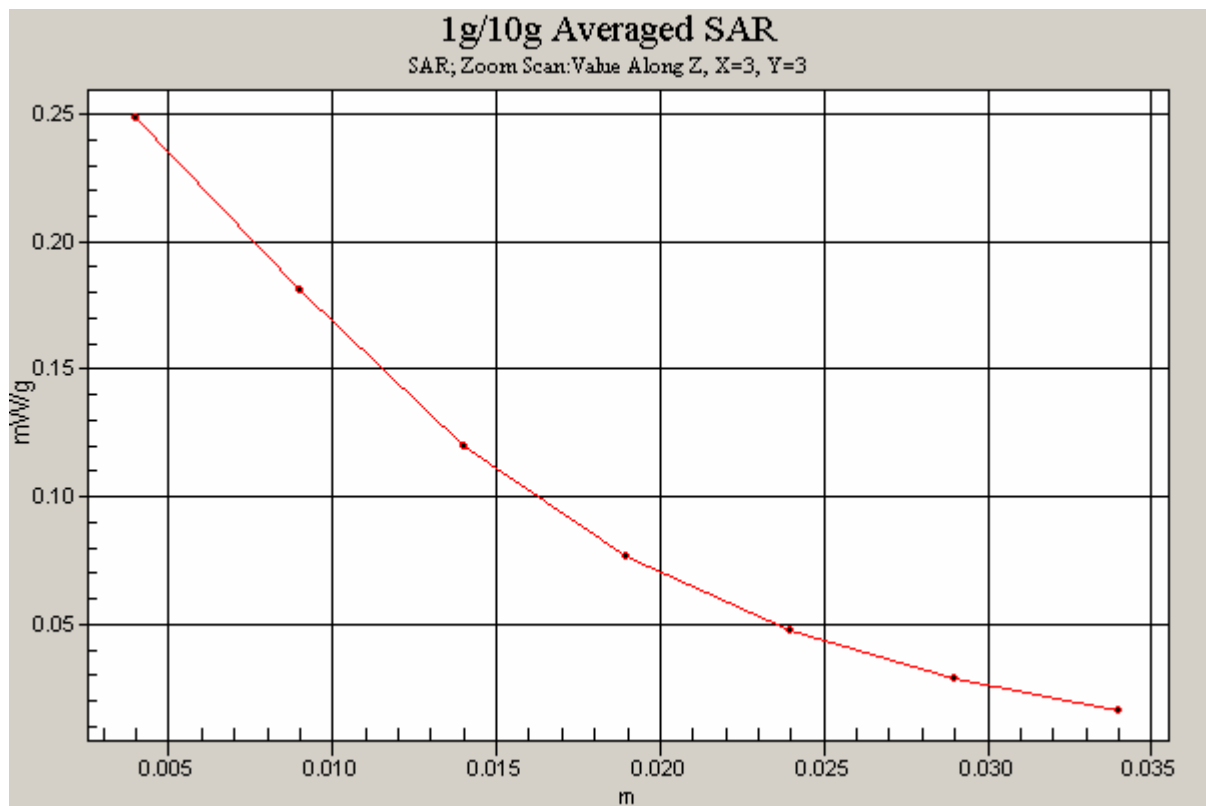


Figure 187 Z-Scan at power reference point (Right Hand Touch Cheek Close GSM 1900 Channel 512)

GSM 1900 Right Tilt High Close

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.154 mW/g

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

Reference Value = 8.71 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.195 W/kg

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.081 mW/g

Maximum value of SAR (measured) = 0.145 mW/g

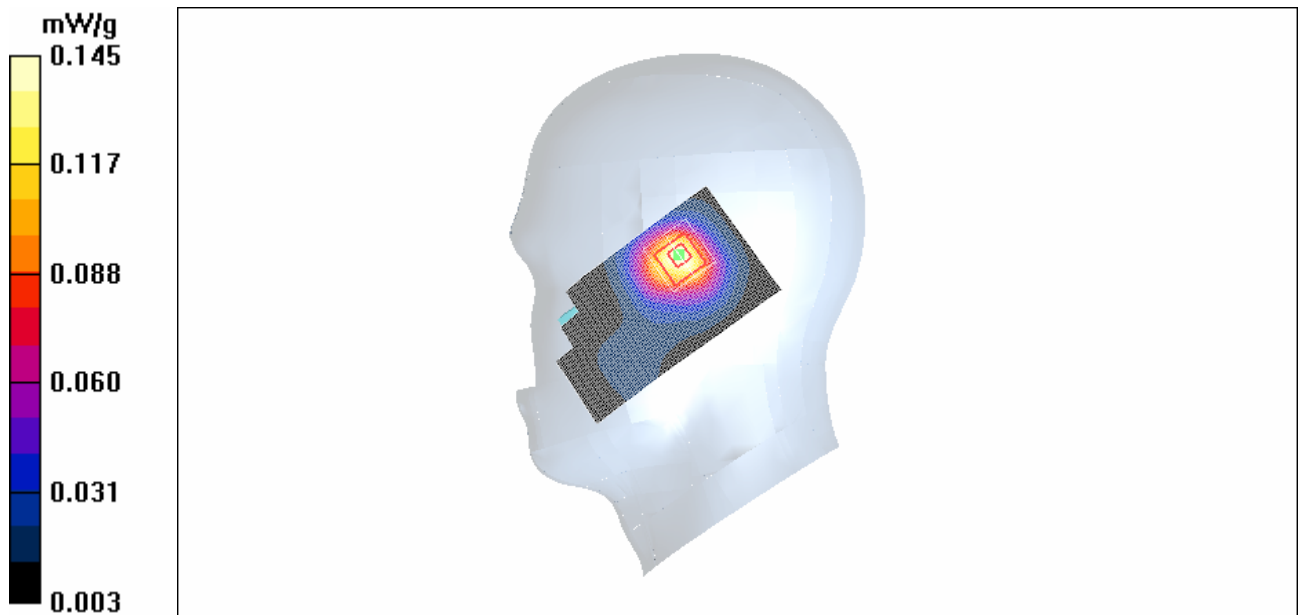


Figure 188 Right Hand Tilt 15° Close GSM 1900 Channel 810

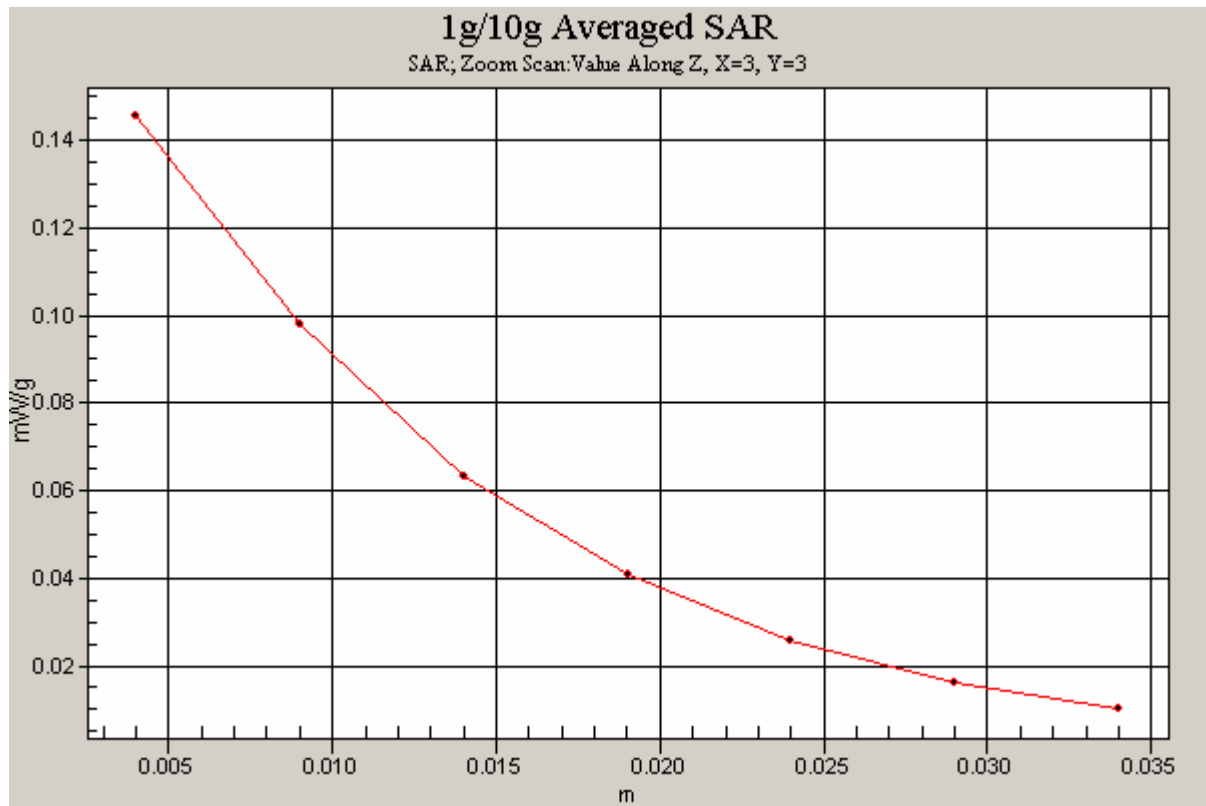


Figure 189 Z-Scan at power reference point (Right Hand Tilt 15° Close GSM 1900 Channel 810)

GSM 1900 Right Tilt Middle Close

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.184 mW/g

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

Reference Value = 9.78 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.235 W/kg

SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.097 mW/g

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

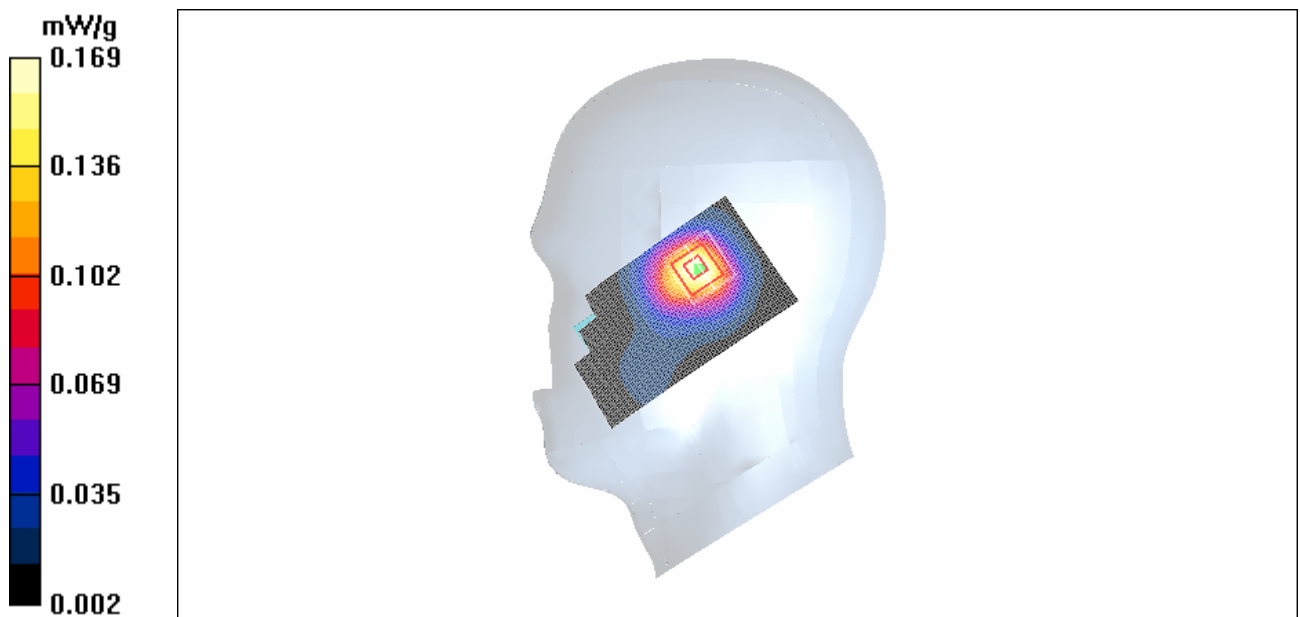


Figure 190 Right Hand Tilt 15° Close GSM 1900 Channel 661

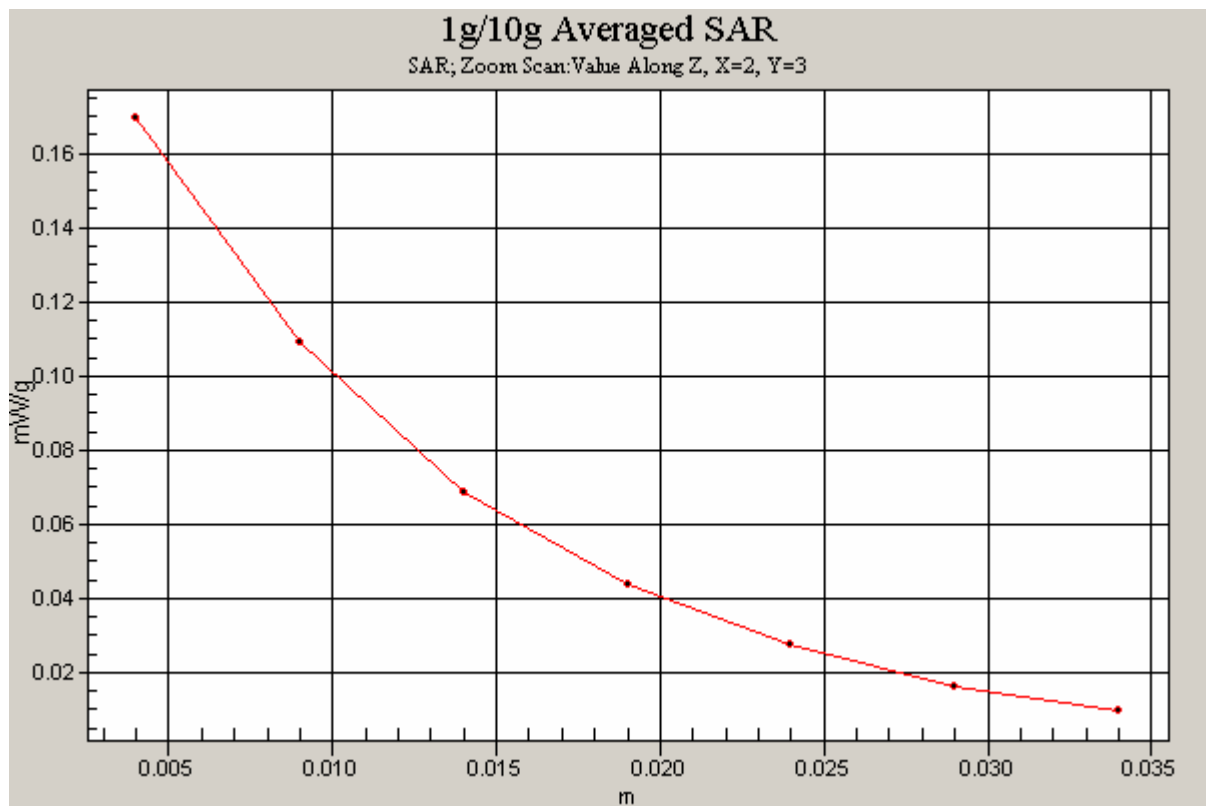


Figure 191 Z-Scan at power reference point (Right Hand Tilt 15° Close GSM 1900 Channel 661)

GSM 1900 Right Tilt Low Close

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; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.207 mW/g

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

Reference Value = 10.7 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 0.256 W/kg

SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.188 mW/g

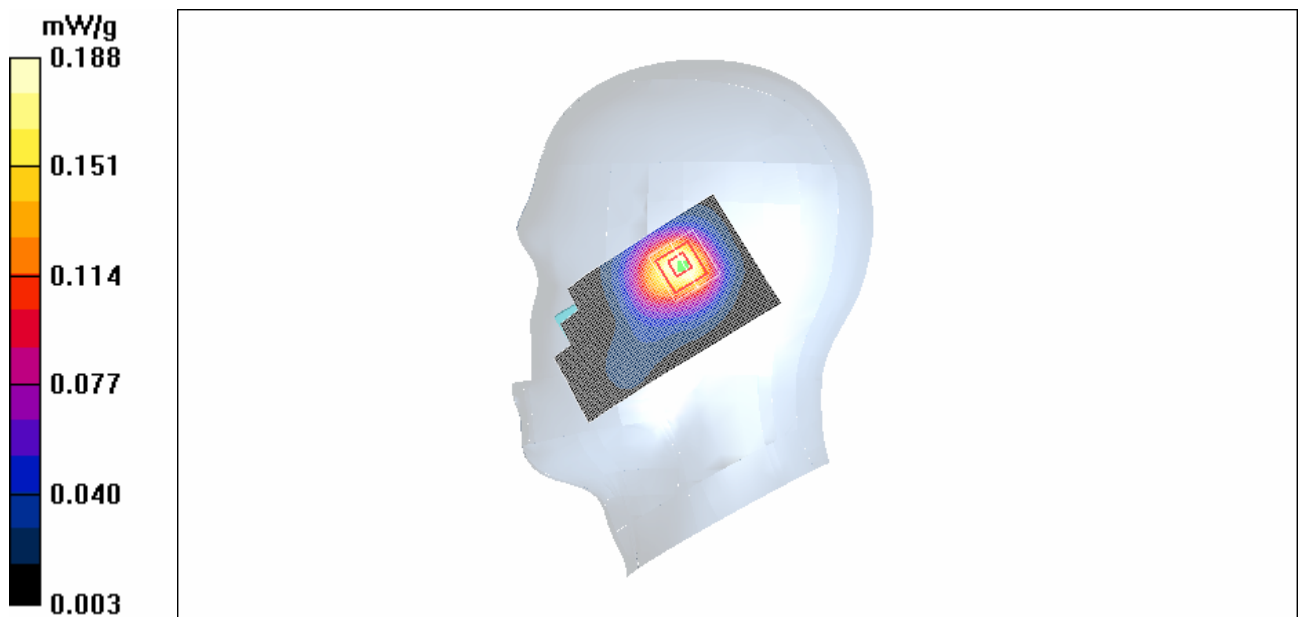


Figure 192 Right Hand Tilt 15° Close GSM 1900 Channel 512

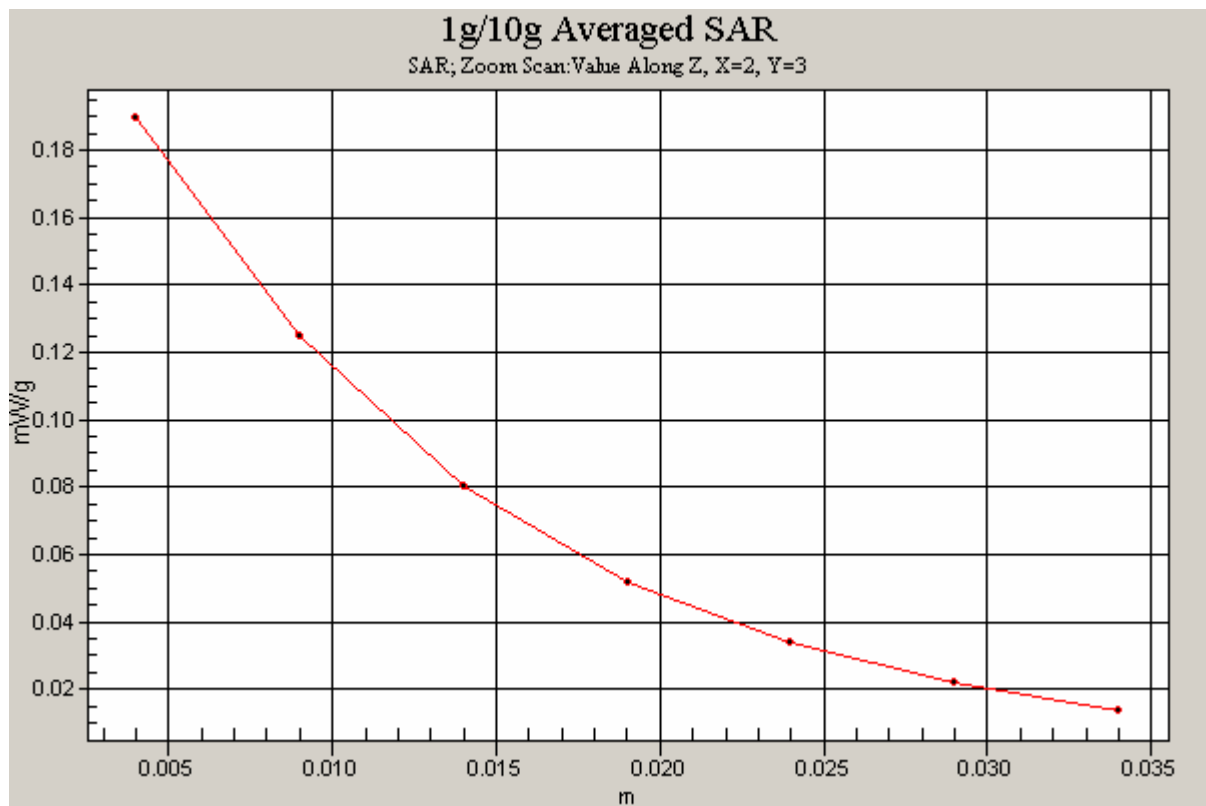


Figure 193 Z-Scan at power reference point (Right Hand Tilt 15° Close GSM 1900 Channel 512)

GSM 1900 Towards Ground High Close

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.244 mW/g

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

Reference Value = 6.86 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.384 W/kg

SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.117 mW/g

Maximum value of SAR (measured) = 0.240 mW/g

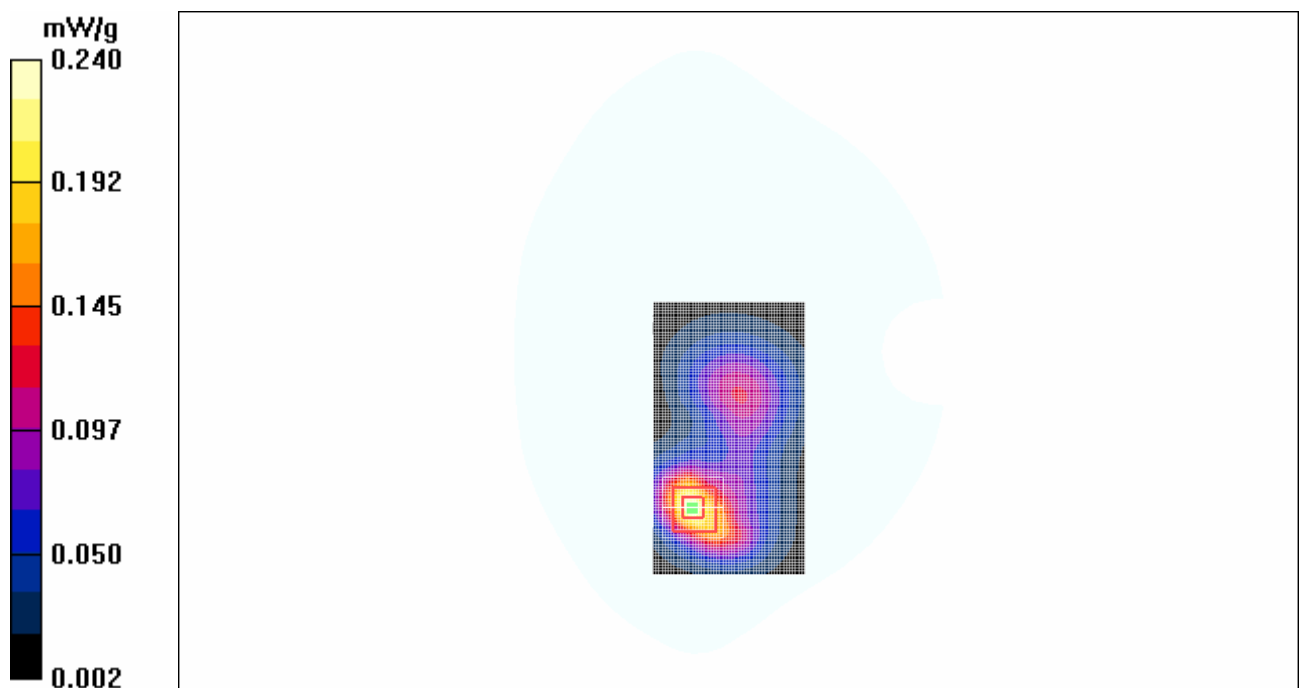


Figure 194 Body, Towards Ground, Close GSM 1900 Channel 810

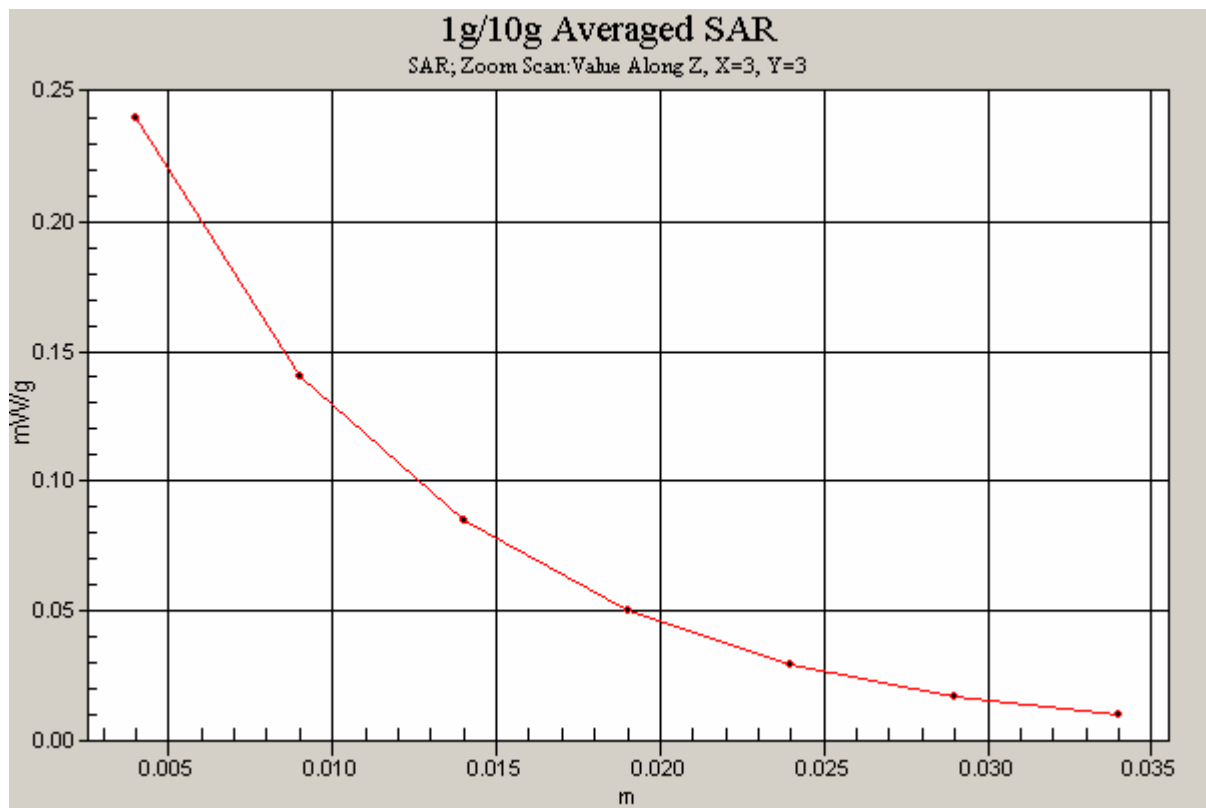


Figure 195 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 Channel 810)

GSM 1900 Towards Ground Middle Close

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.285 mW/g

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

Reference Value = 7.60 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 0.434 W/kg

SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.137 mW/g

Maximum value of SAR (measured) = 0.274 mW/g

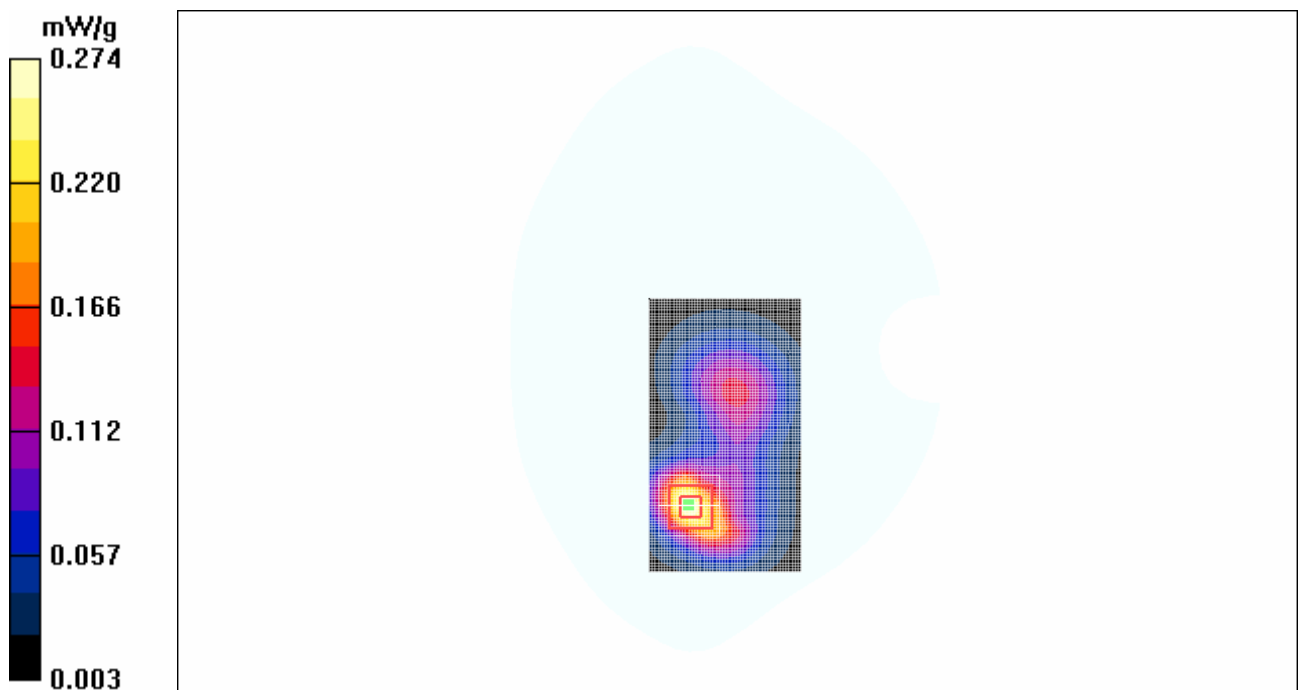


Figure 196 Body, Towards Ground, Close GSM 1900 Channel 661

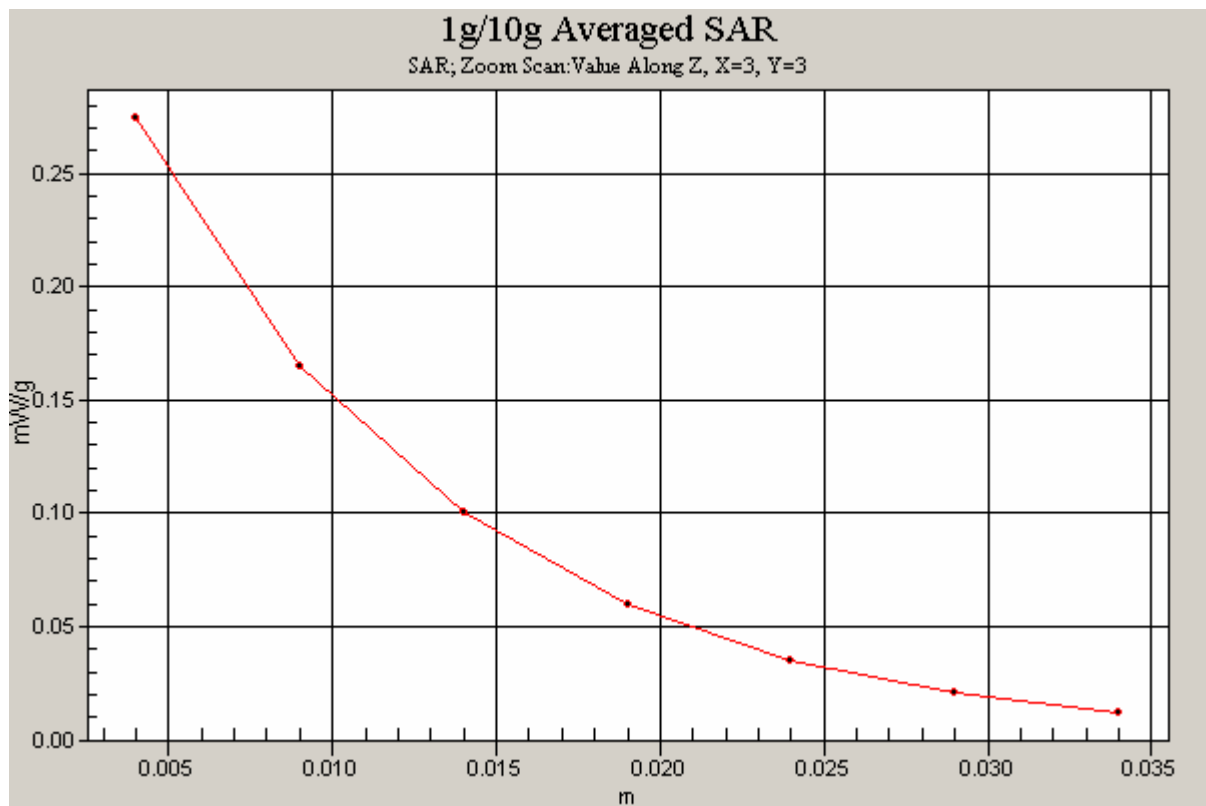


Figure 197 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 Channel 661)

GSM 1900 Towards Ground Low Close

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.331 mW/g

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

Reference Value = 8.20 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.514 W/kg

SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.332 mW/g

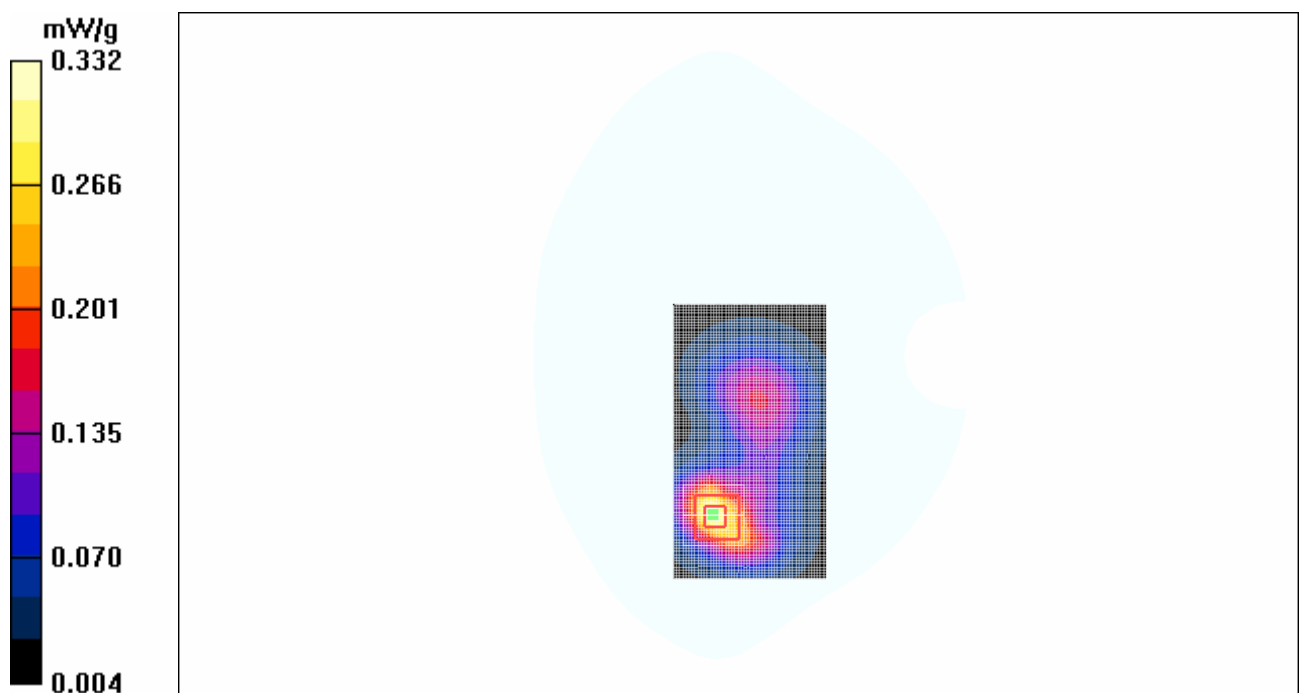


Figure 198 Body, Towards Ground, Close GSM 1900 Channel 512

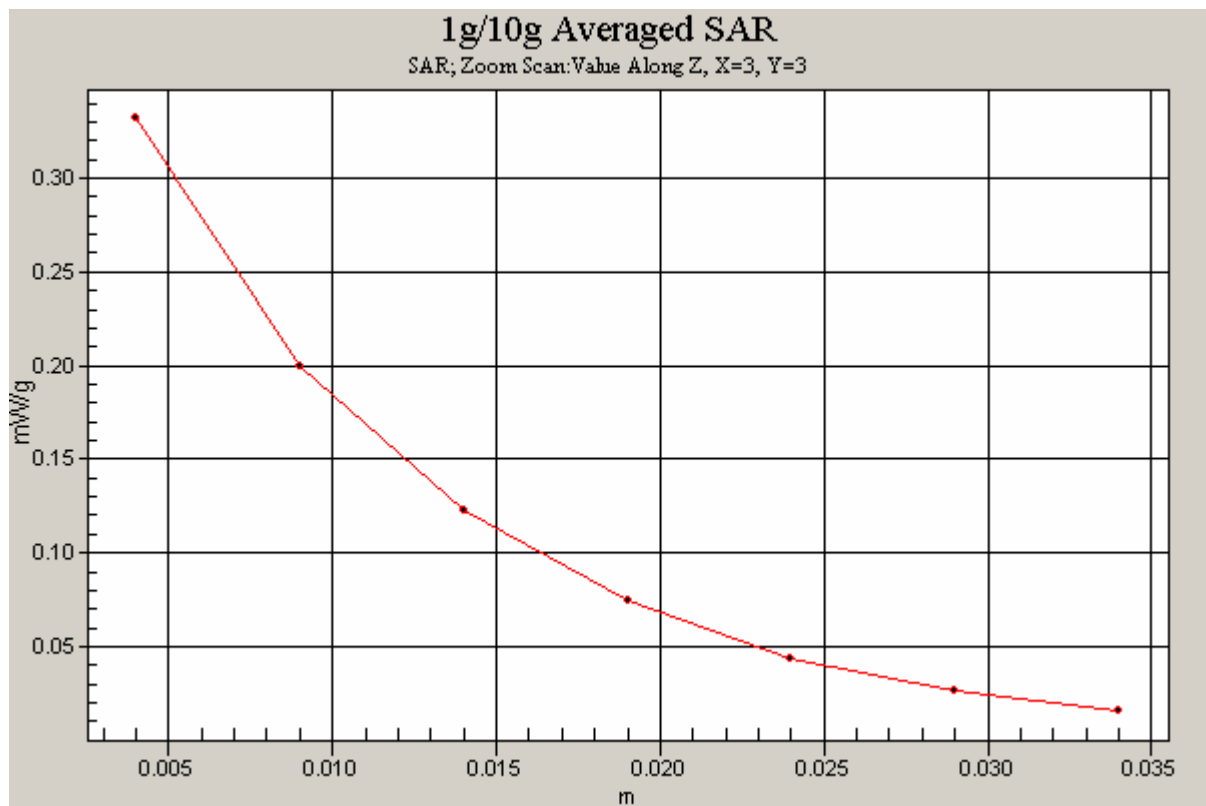


Figure 199 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 Channel 512)

GSM 1900 Towards Phantom High Close

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

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.059 mW/g

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

Reference Value = 5.10 V/m; Power Drift = -0.090 dB

Peak SAR (extrapolated) = 0.087 W/kg

SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.034 mW/g

Maximum value of SAR (measured) = 0.059 mW/g

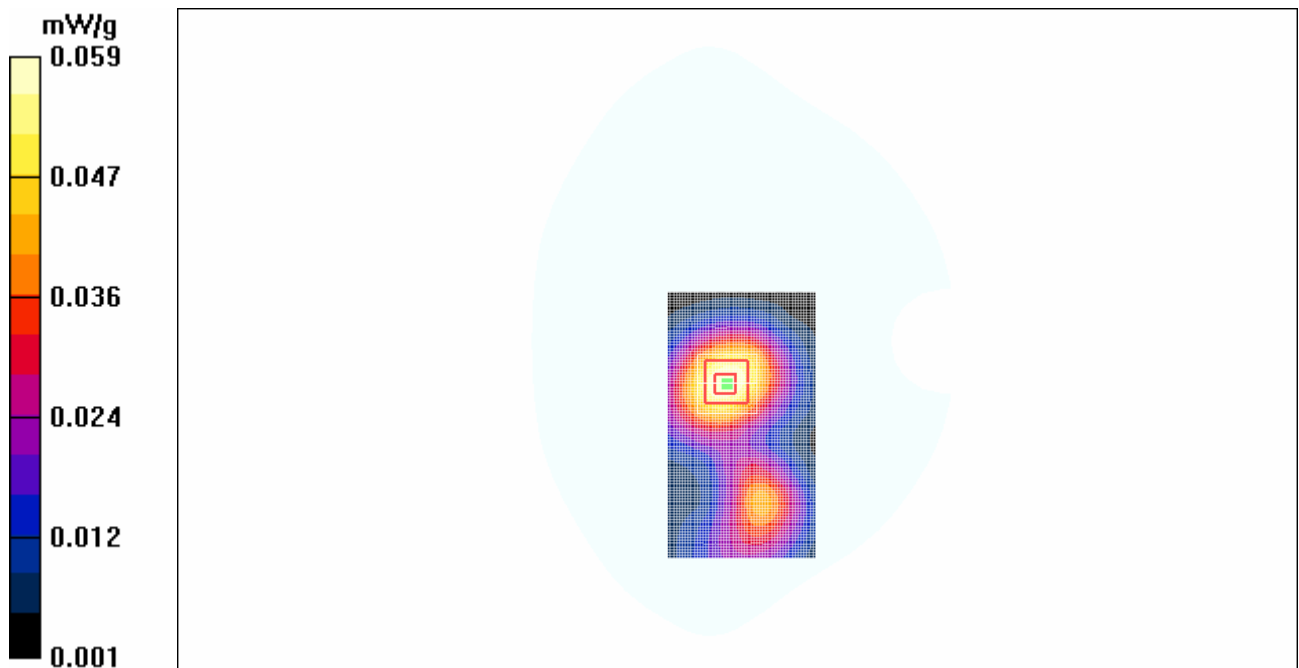


Figure 200 Body, Towards Phantom, Close GSM 1900 Channel 810

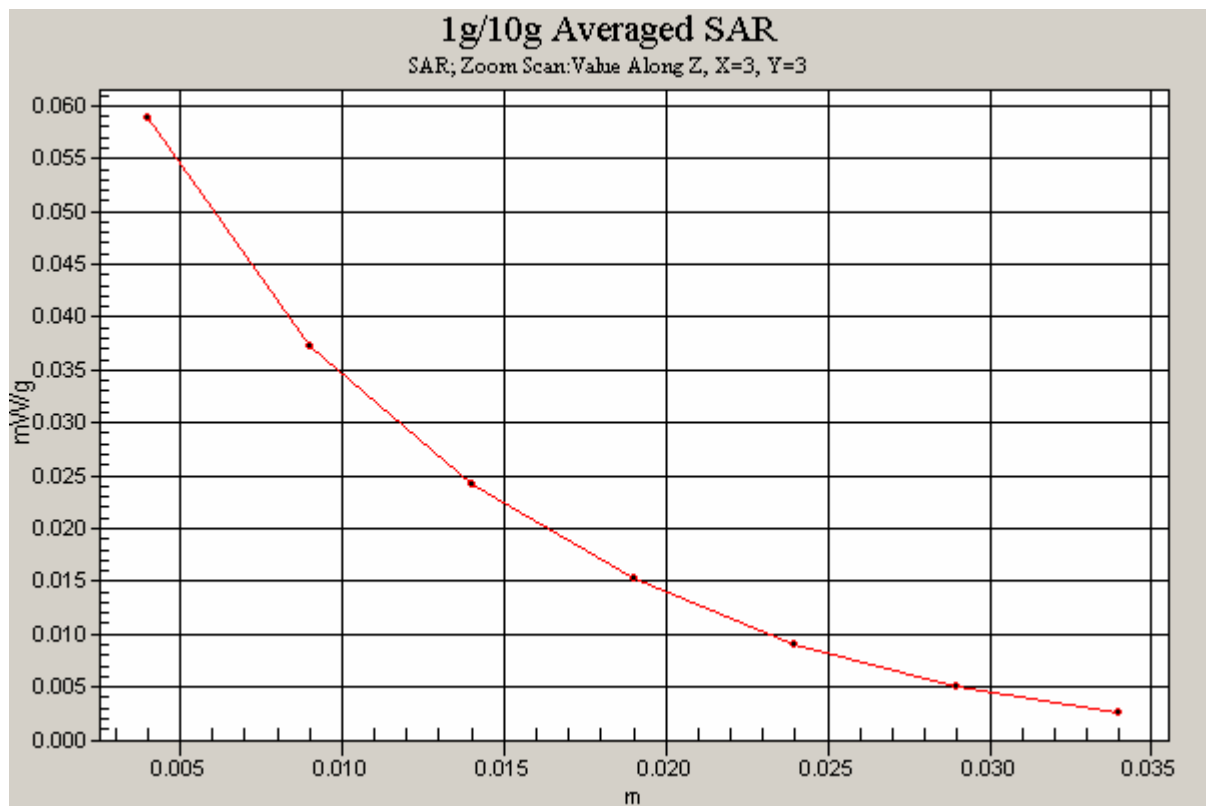


Figure 201 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 Channel 810)

GSM 1900 Towards Phantom Middle Close

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.065 mW/g

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

Reference Value = 5.28 V/m; Power Drift = -0.040 dB

Peak SAR (extrapolated) = 0.094 W/kg

SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.064 mW/g

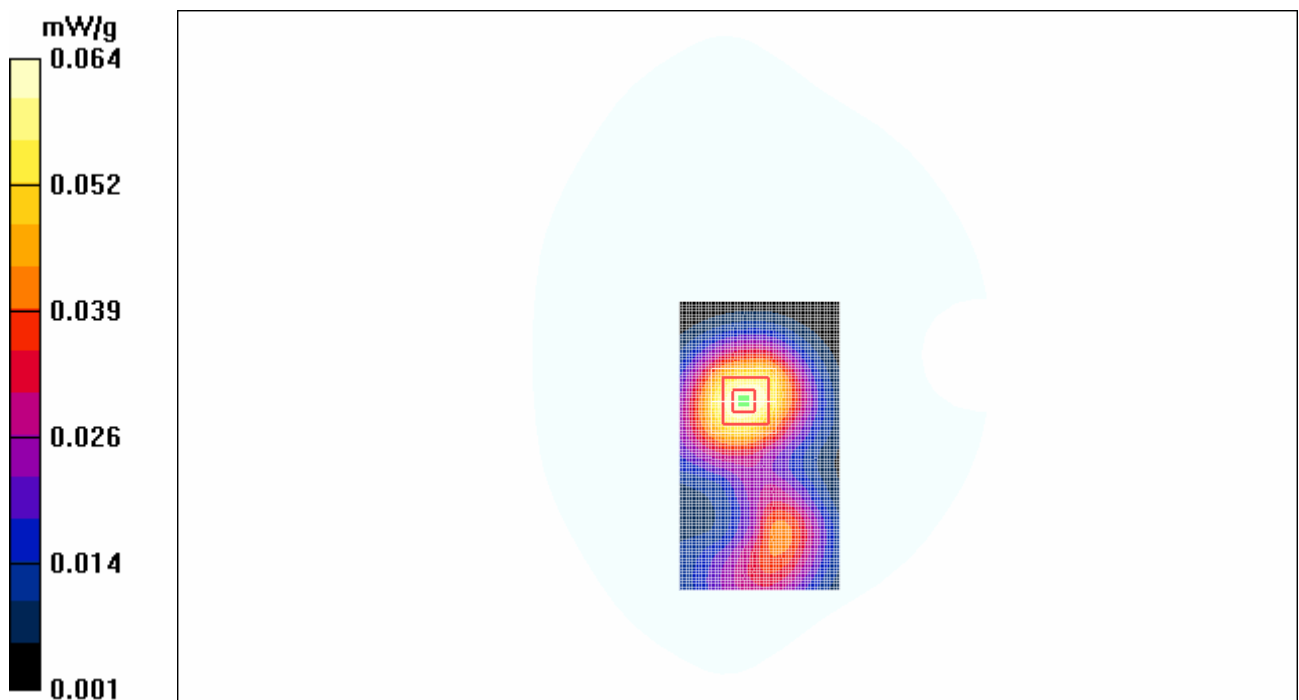


Figure 202 Body, Towards Phantom, Close GSM 1900 Channel 661

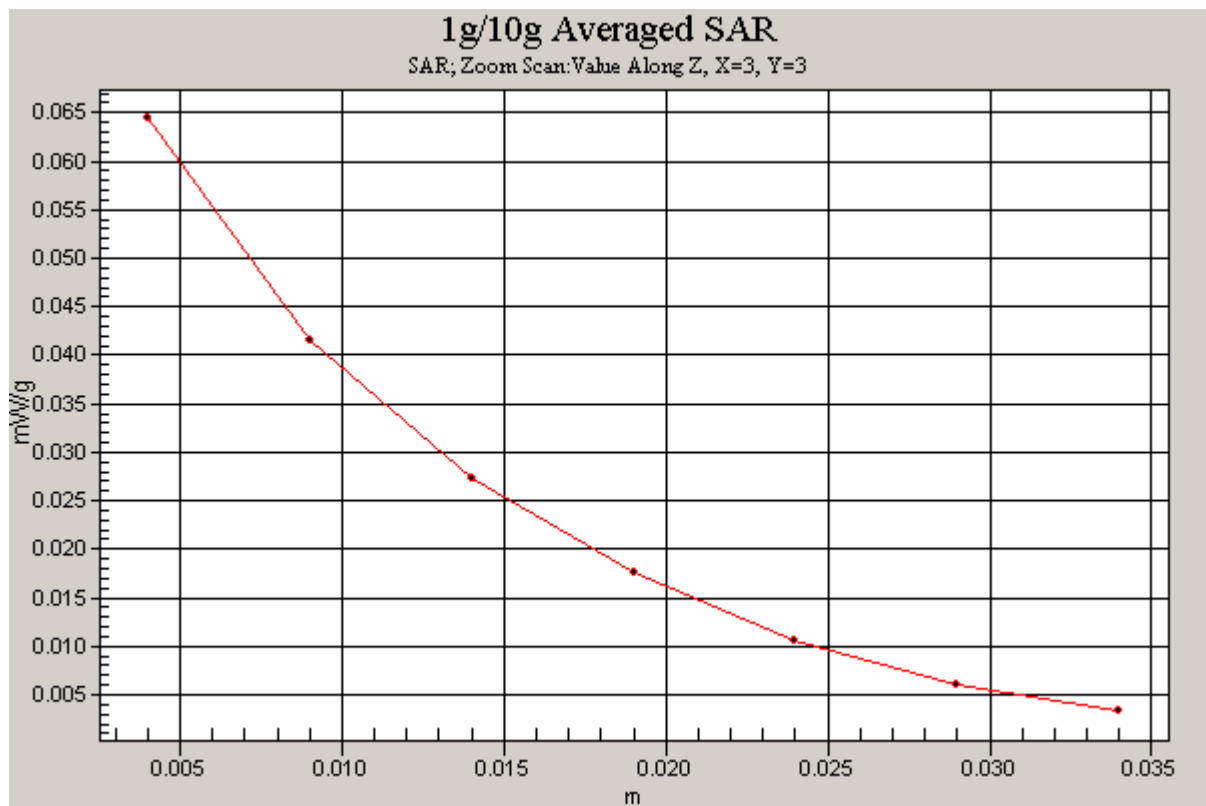


Figure 203 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 Channel 661)

GSM 1900 Towards Phantom Low Close

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

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

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

Reference Value = 5.64 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 0.111 W/kg

SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.047 mW/g

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

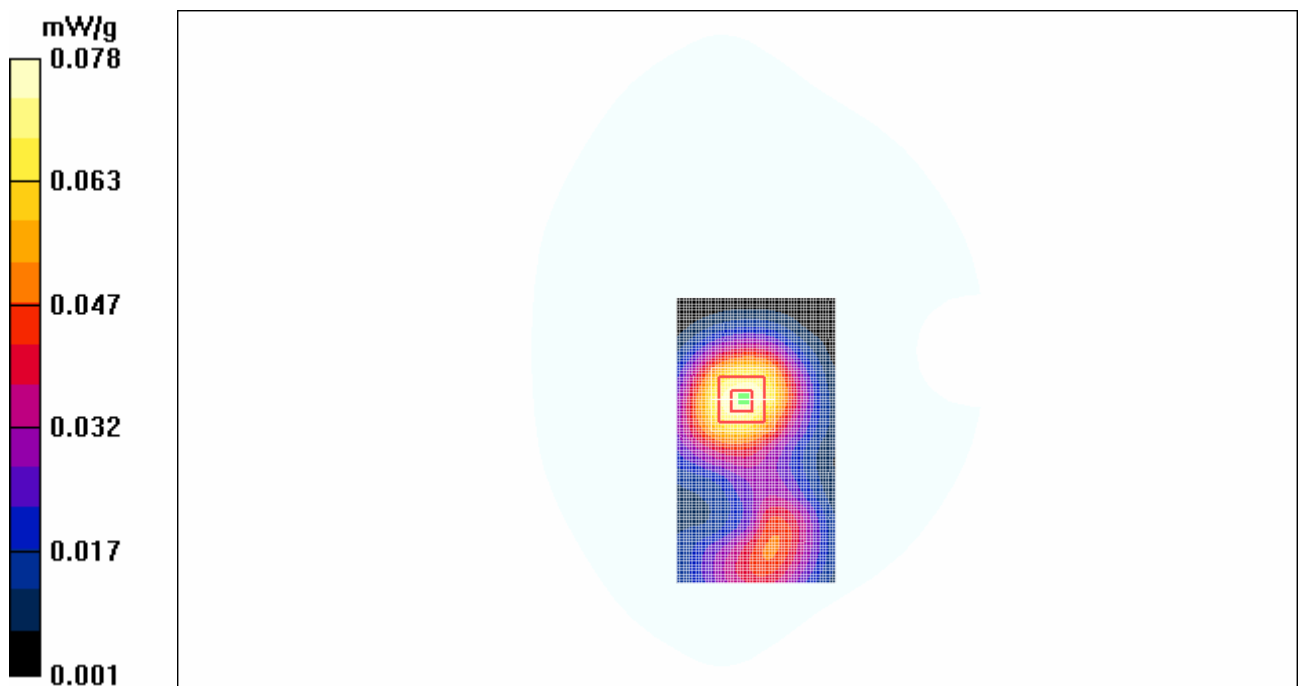


Figure 204 Body, Towards Phantom, Close GSM 1900 Channel 512

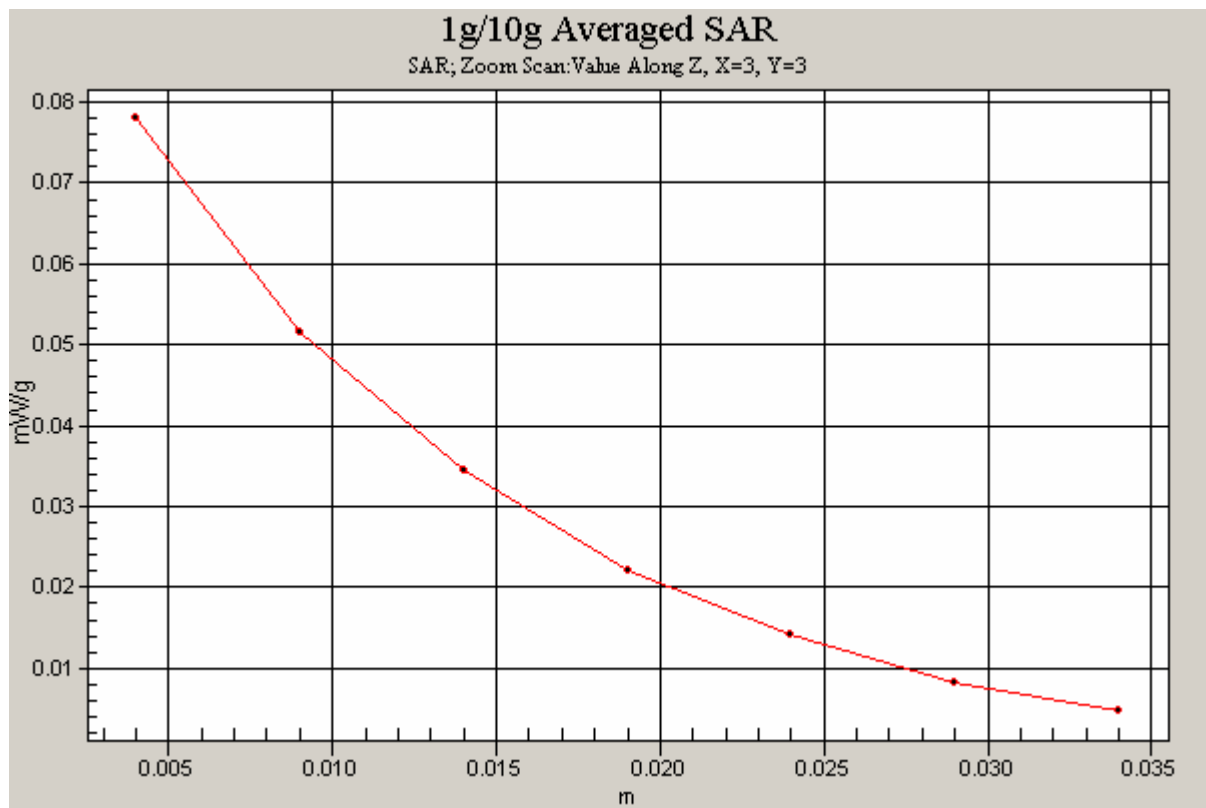


Figure 205 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 Channel 512)

GSM 1900 Earphone Towards Ground Low Close

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.441 mW/g

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

Reference Value = 7.95 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 0.699 W/kg

SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.210 mW/g

Maximum value of SAR (measured) = 0.434 mW/g

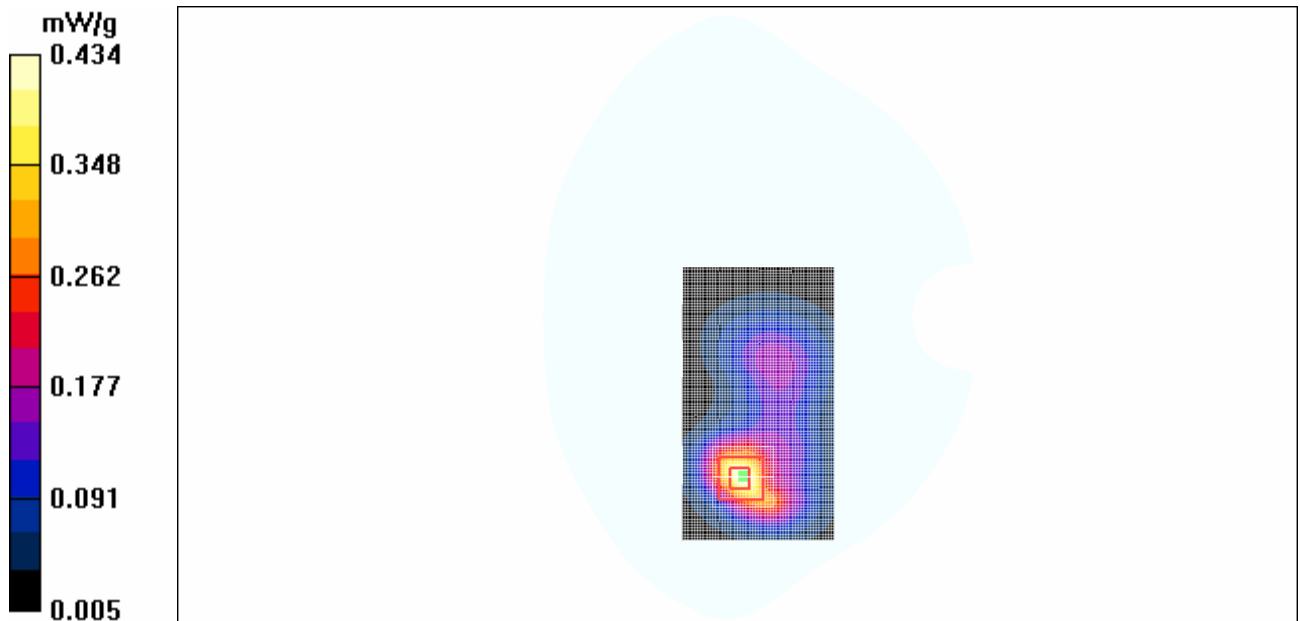


Figure 206 Body with Earphone, Towards Ground, Close GSM 1900, Channel 512

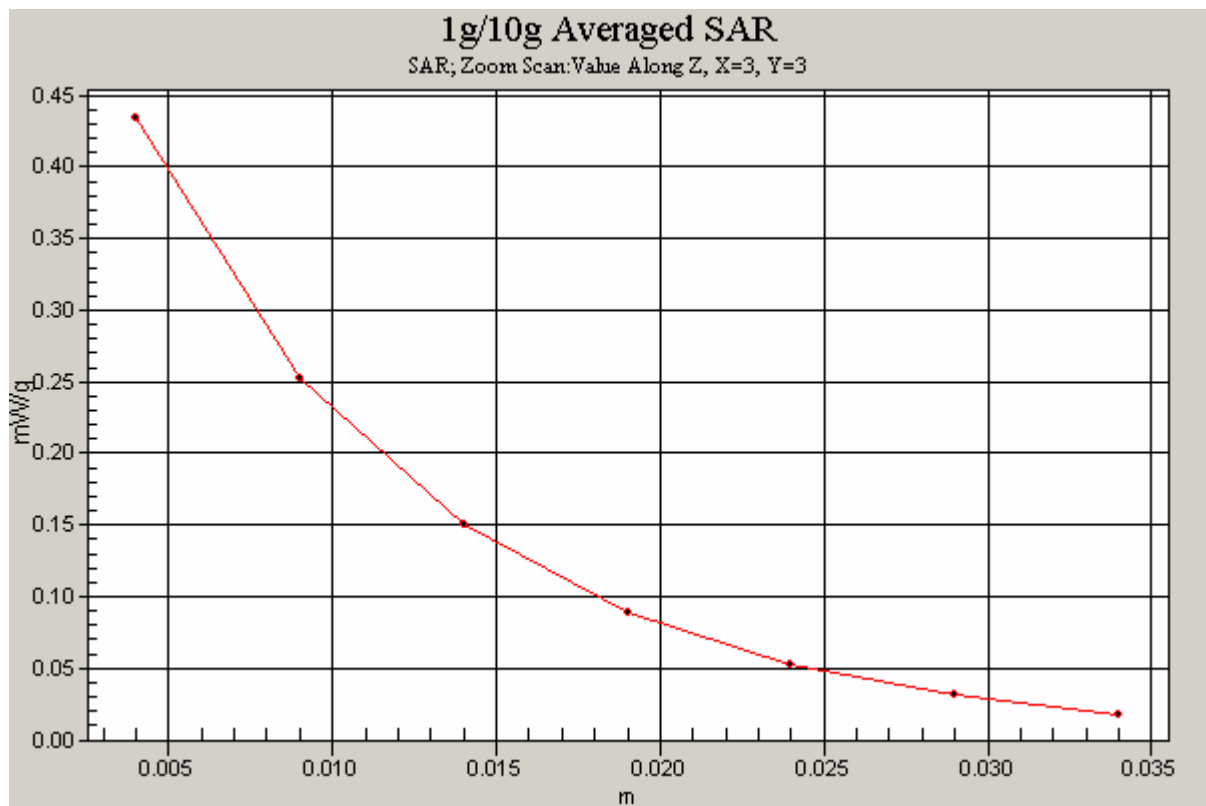


Figure 207 Z-Scan at power reference point (Body with Earphone, Towards Ground, Close GSM 1900, Channel 512)

GSM 1900 Bluetooth Earphone Towards Ground Low Close

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.305 mW/g

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

Reference Value = 8.21 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.151 mW/g

Maximum value of SAR (measured) = 0.297 mW/g

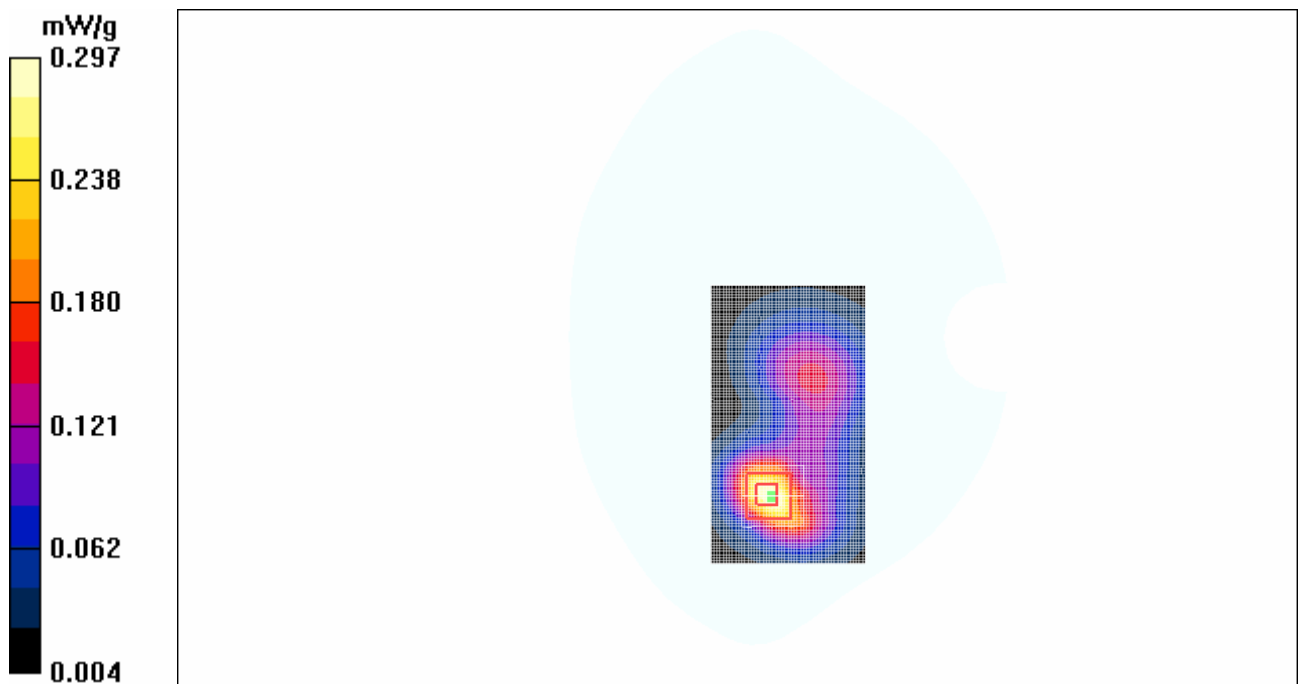


Figure 208 Body with Bluetooth earphone, Towards Ground, Close GSM 1900, Channel 512

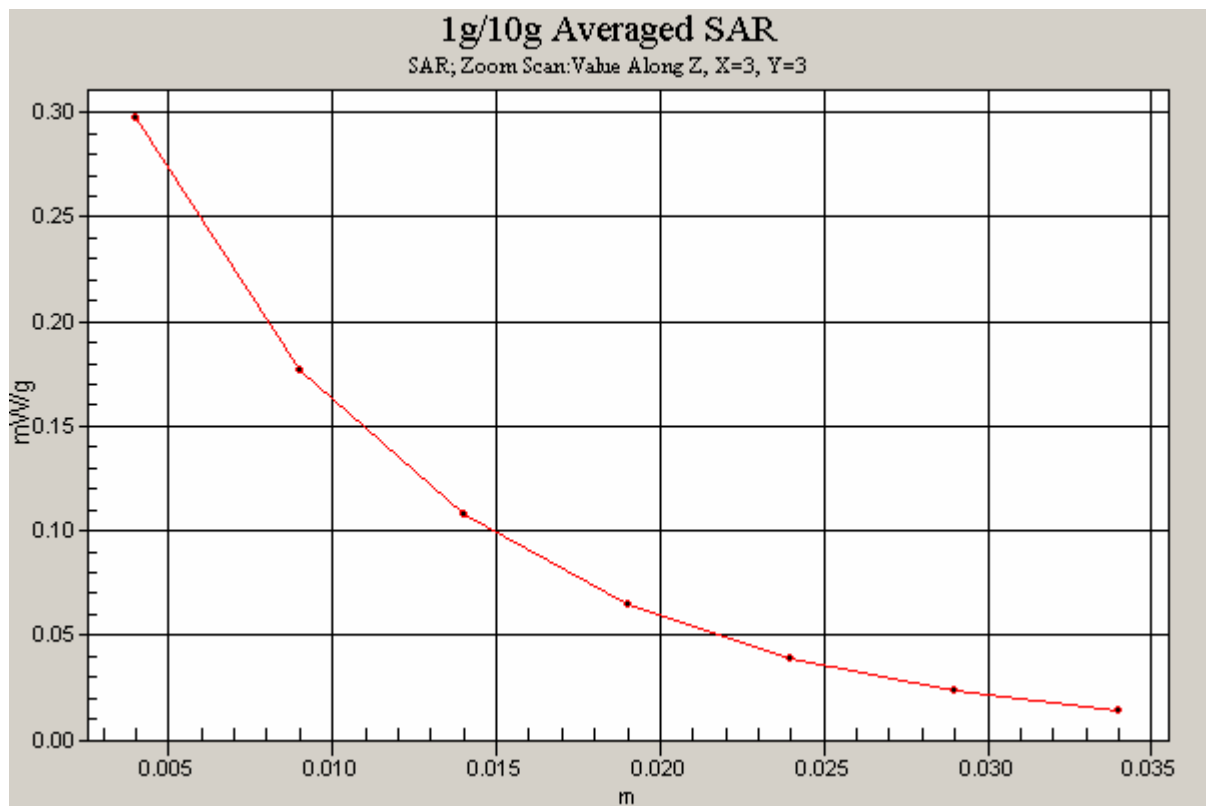


Figure 209 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, Close GSM 1900, Channel 512)

GSM 1900 GPRS Towards Ground High Close

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; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.344 mW/g

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

Reference Value = 9.13 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.169 mW/g

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

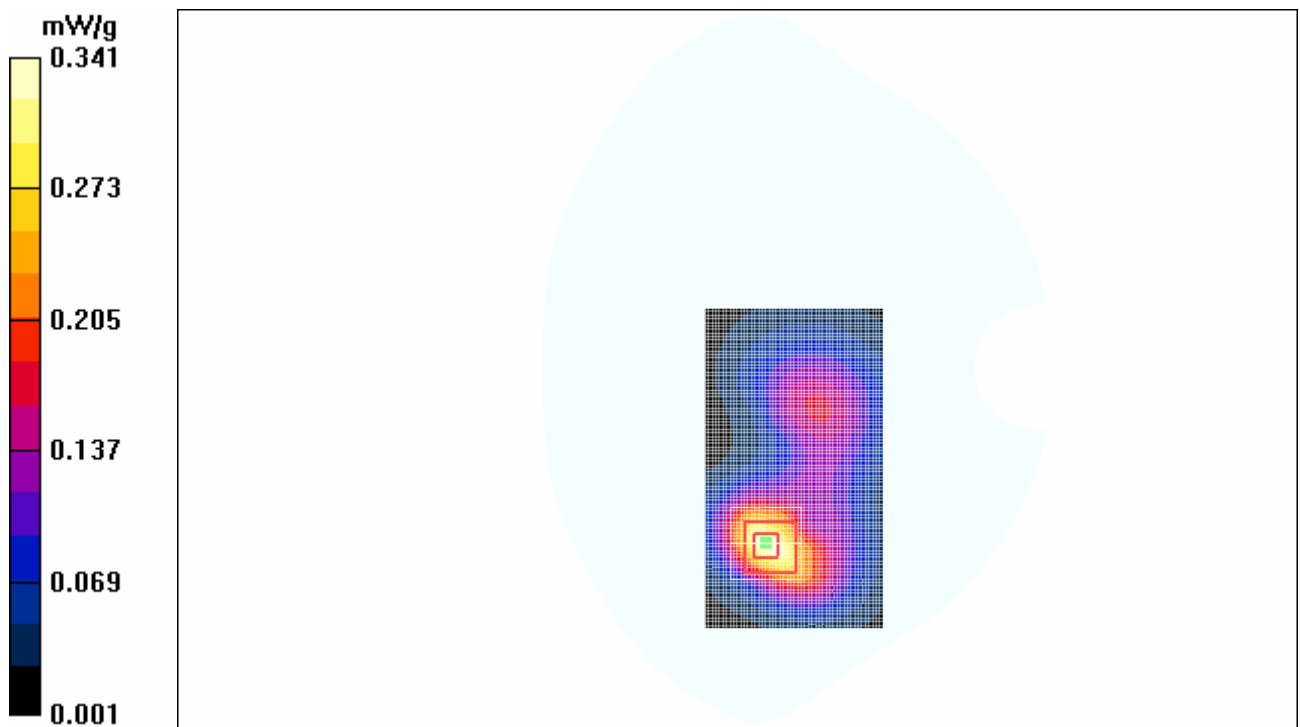


Figure 210 Body, Towards Ground, Close GSM 1900 GPRS, Channel 810

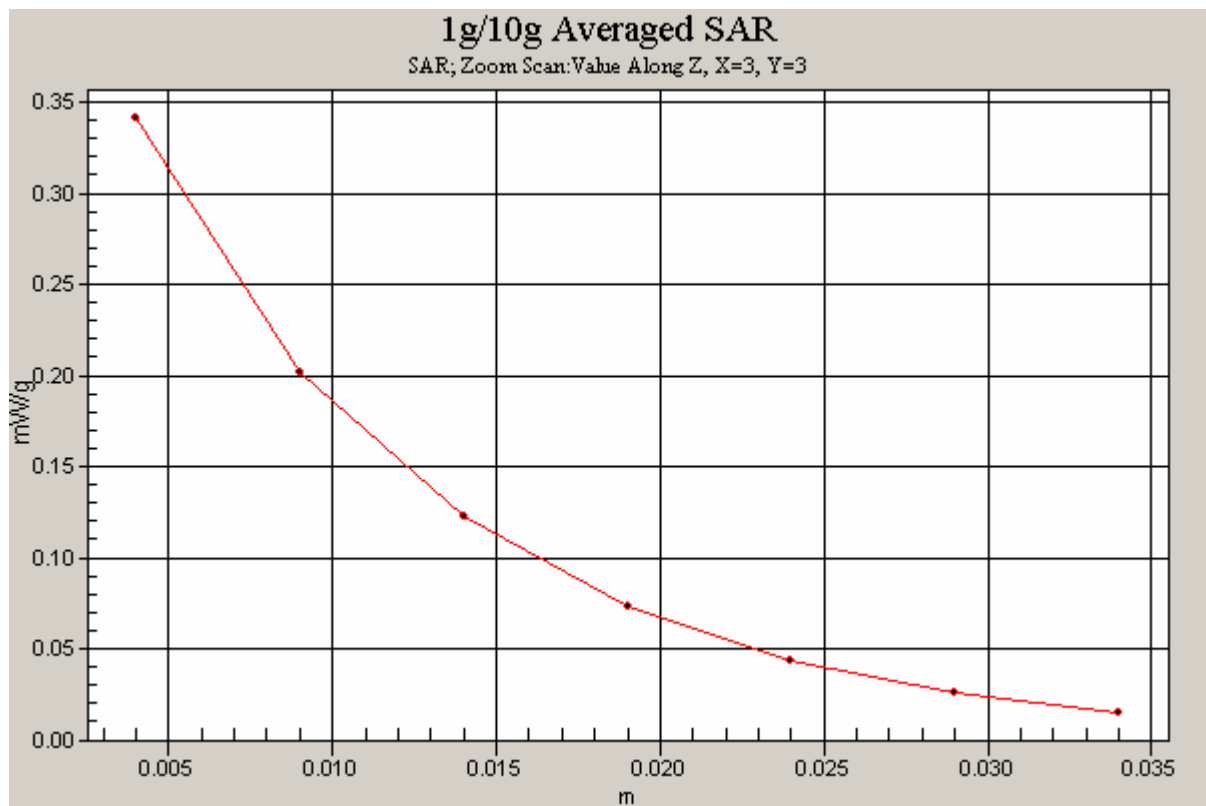


Figure 211 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 GPRS, Channel 810)

GSM 1900 GPRS Towards Ground Middle Close

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.409 mW/g

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

Reference Value = 10.2 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 0.633 W/kg

SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.206 mW/g

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

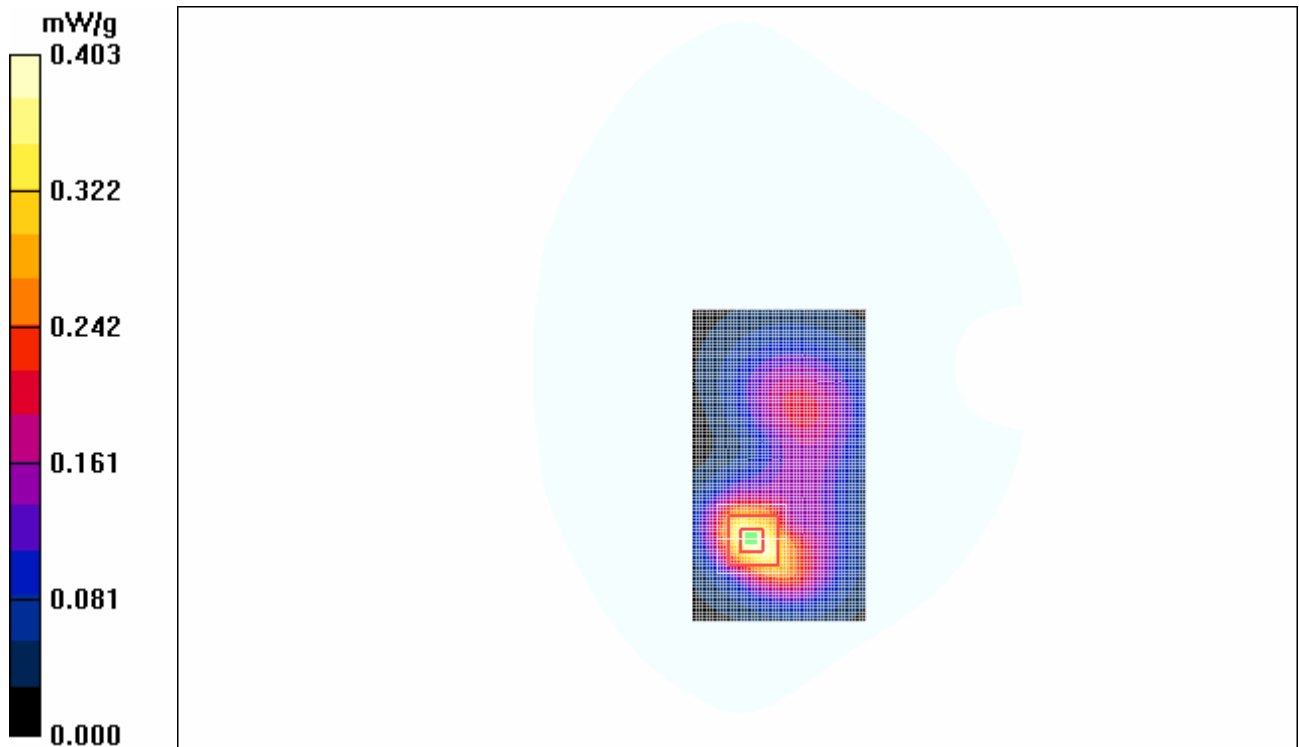


Figure 212 Body, Towards Ground, Close GSM 1900 GPRS Channel 661

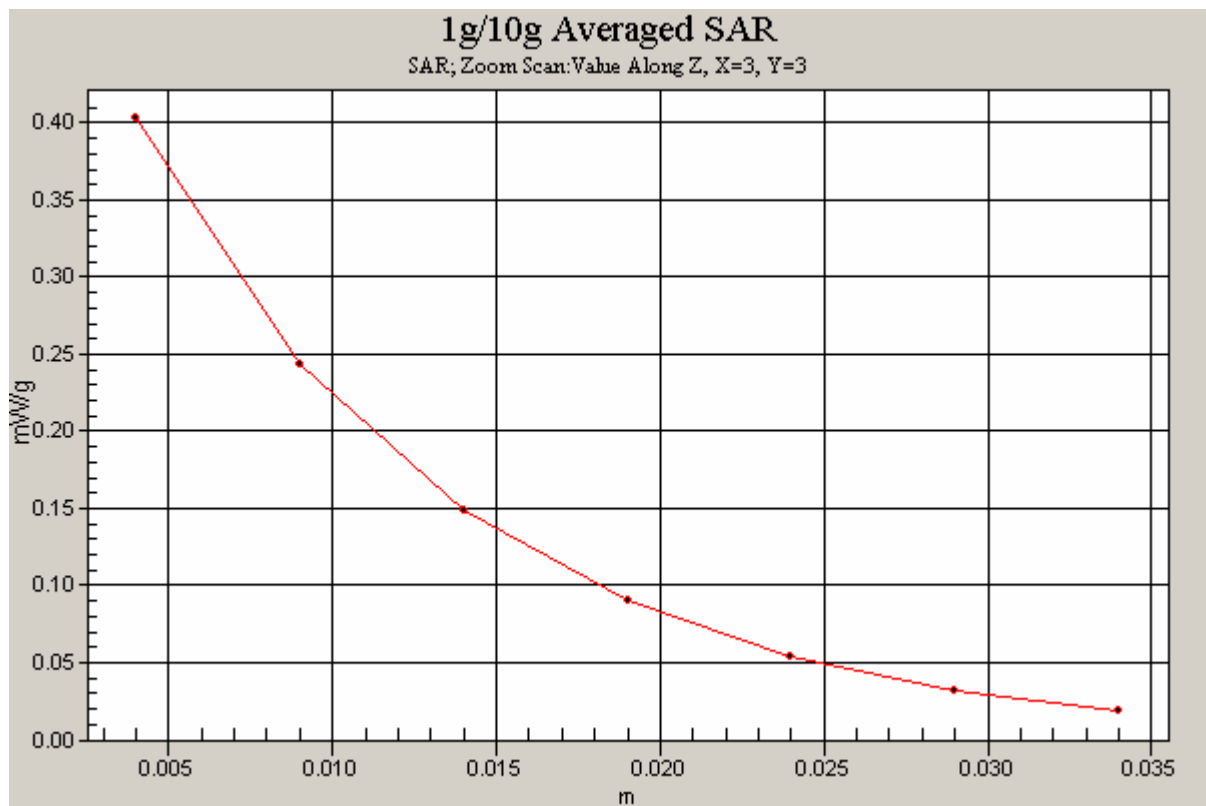


Figure 213 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 GPRS Channel 661)

GSM 1900 GPRS Towards Ground Low Close

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.499 mW/g

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

Reference Value = 11.1 V/m; Power Drift = 0.063 dB

Peak SAR (extrapolated) = 0.766 W/kg

SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.252 mW/g

Maximum value of SAR (measured) = 0.495 mW/g

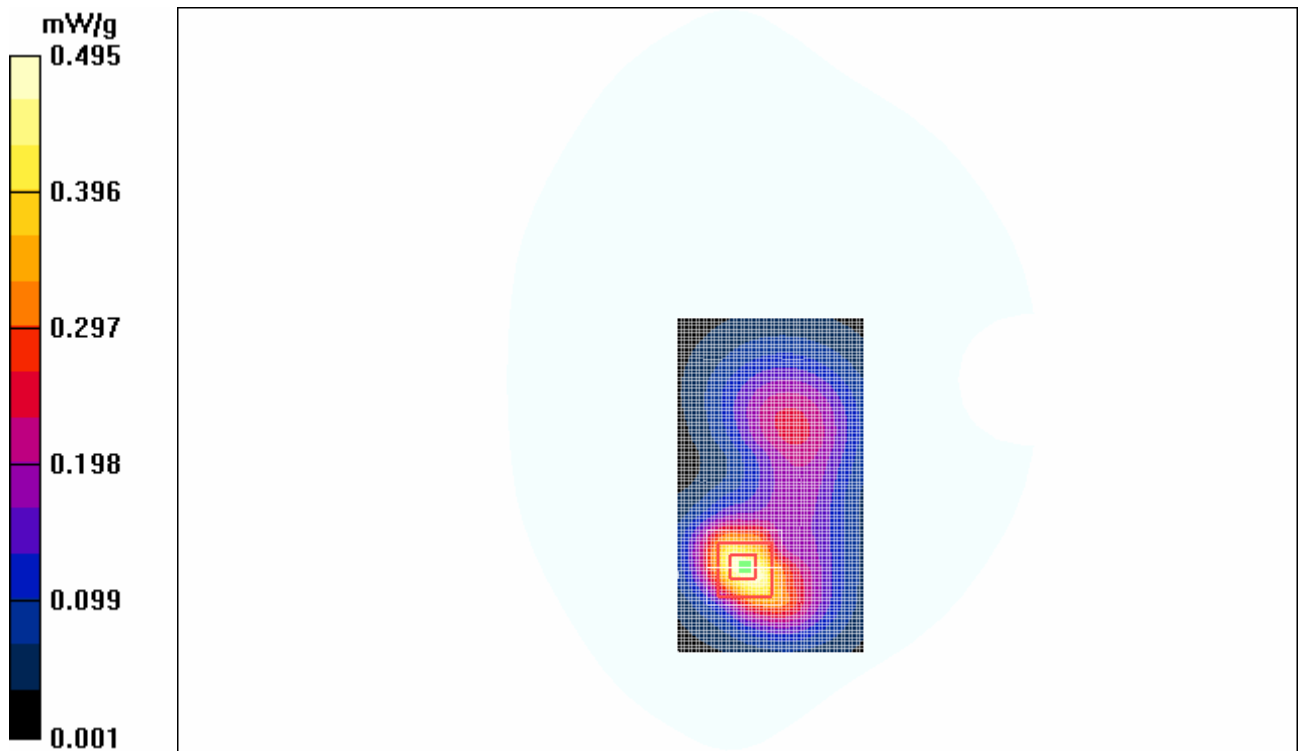


Figure 214 Body, Towards Ground, Close GSM 1900 GPRS Channel 512

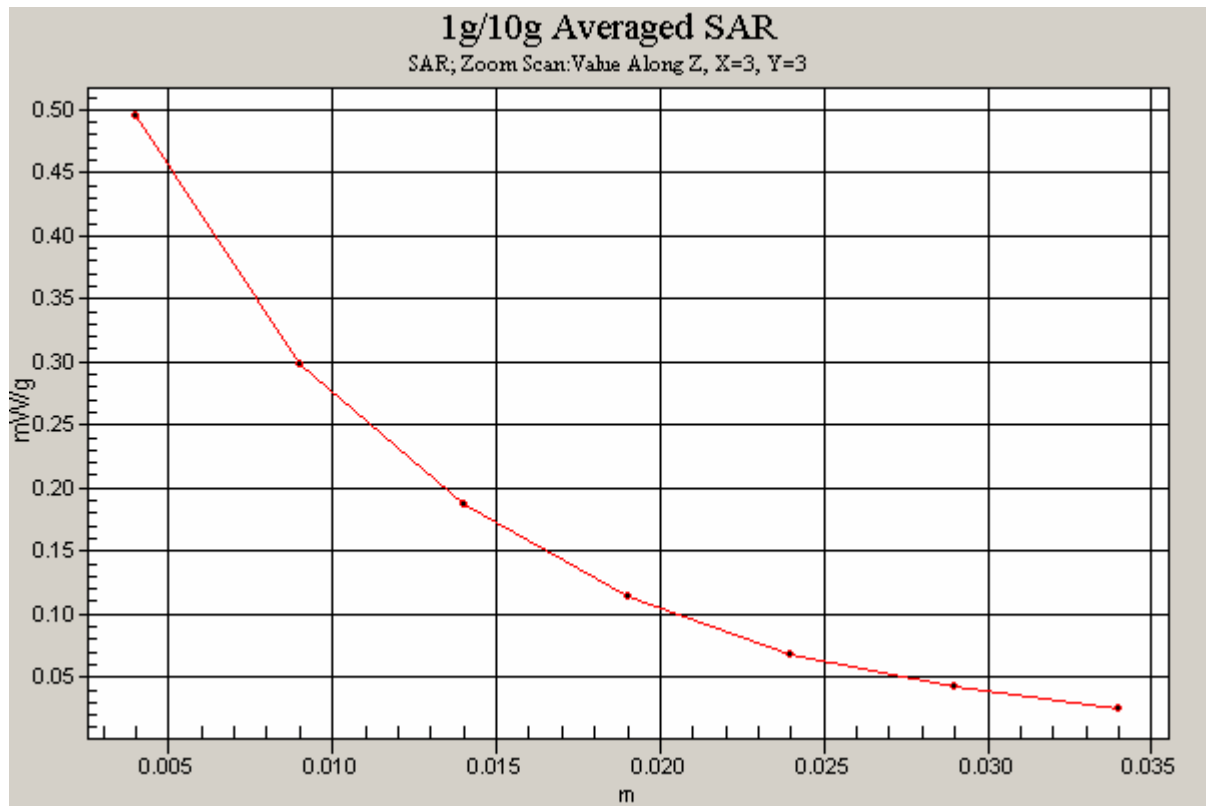


Figure 215 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 GPRS Channel 512)

GSM 1900 GPRS Towards Phantom High Close

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; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.105 mW/g

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

Reference Value = 6.80 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.097 mW/g; SAR(10 g) = 0.061 mW/g

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

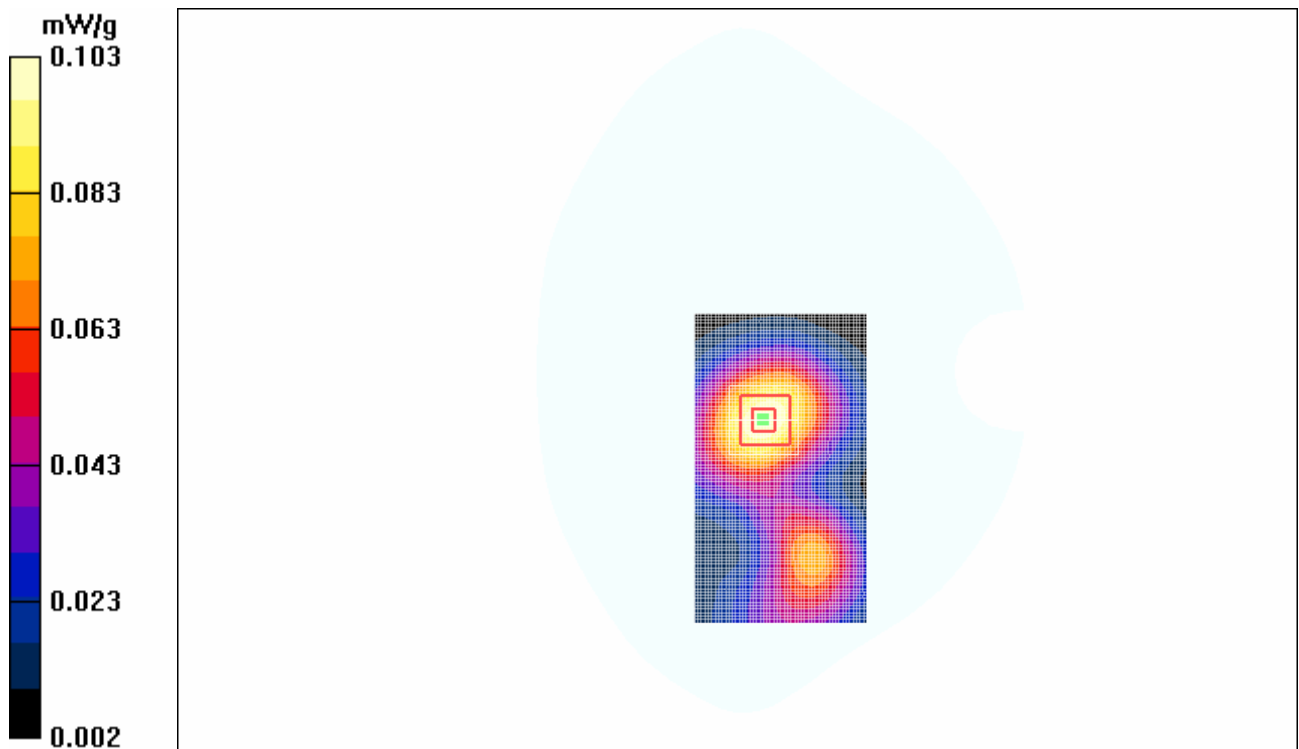


Figure 216 Body, Towards Phantom, Close GSM 1900 GPRS, Channel 810

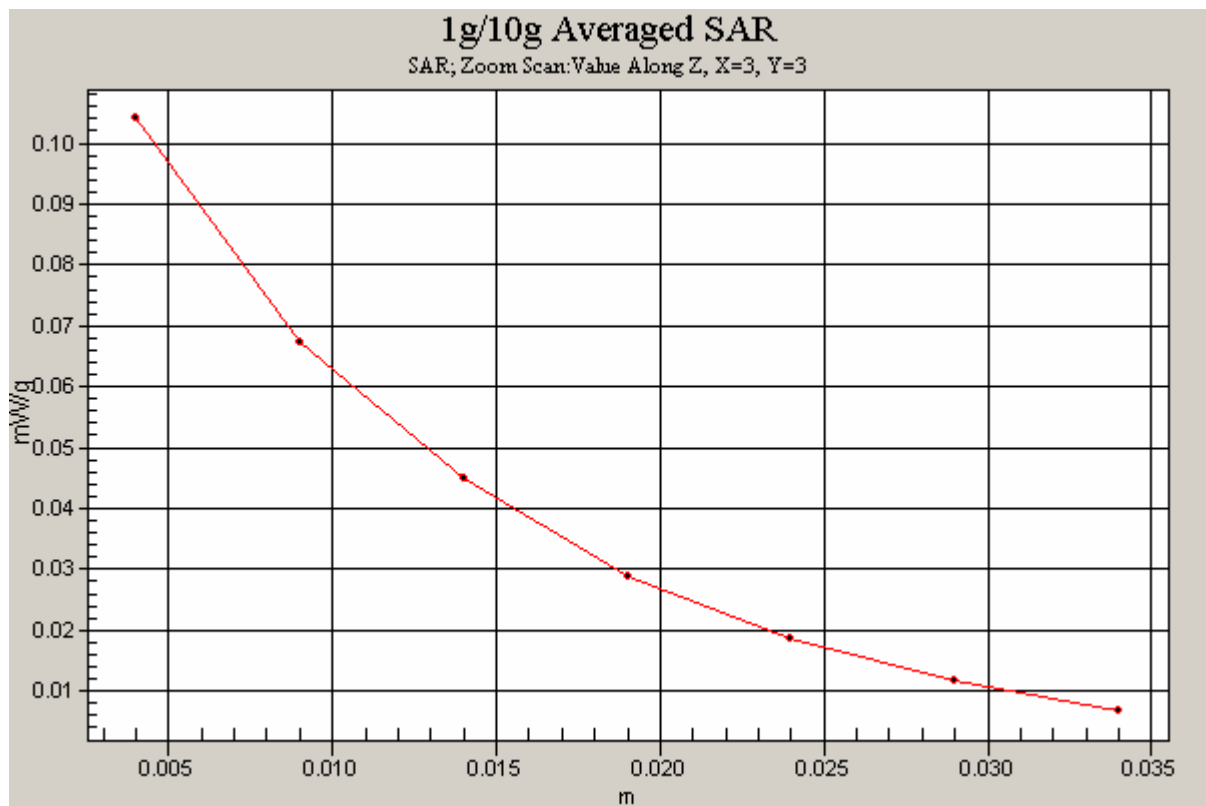


Figure 217 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 GPRS, Channel 810)

GSM 1900 GPRS Towards Phantom Middle Close

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.112 mW/g

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

Reference Value = 7.13 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.067 mW/g

Maximum value of SAR (measured) = 0.112 mW/g

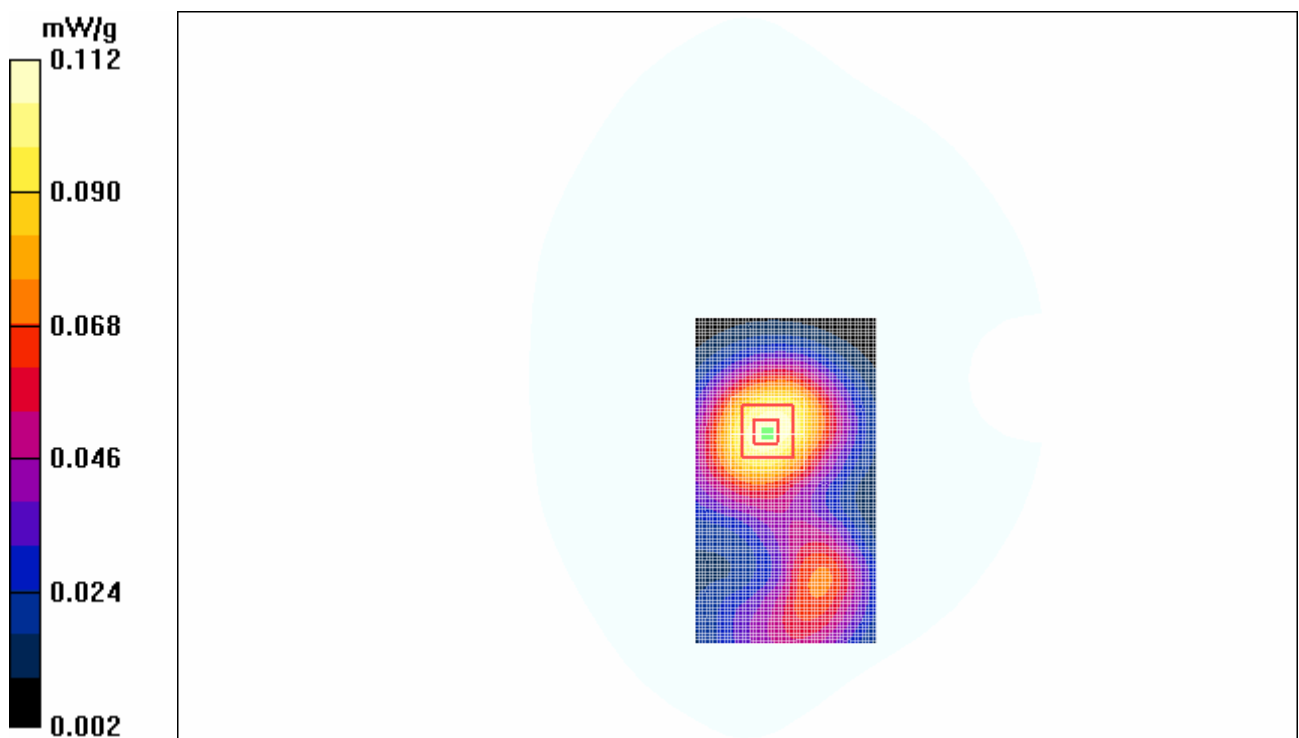


Figure 218 Body, Towards Phantom, Close GSM 1900 GPRS Channel 661

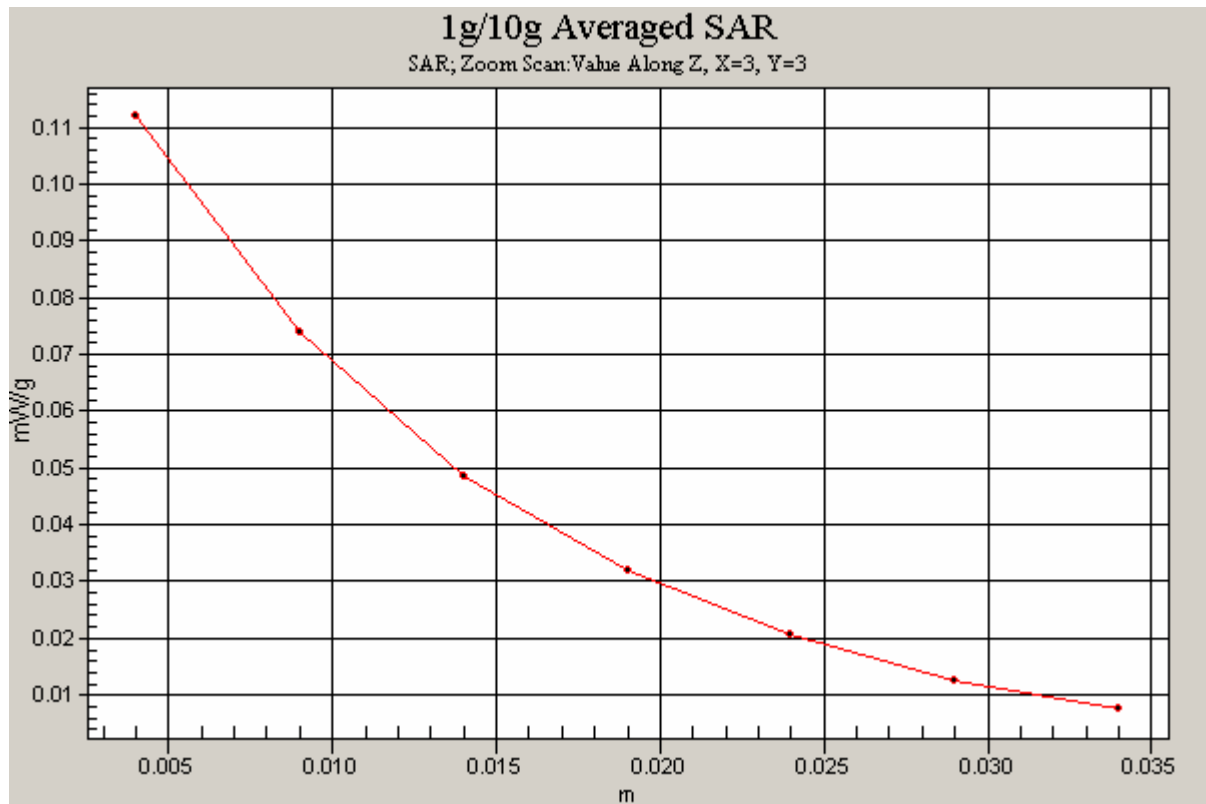


Figure 219 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 GPRS Channel 661)

GSM 1900 GPRS Towards Phantom Low Close

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.204 mW/g

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

Reference Value = 7.62 V/m; Power Drift = -0.158 dB

Peak SAR (extrapolated) = 0.271 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.159 mW/g

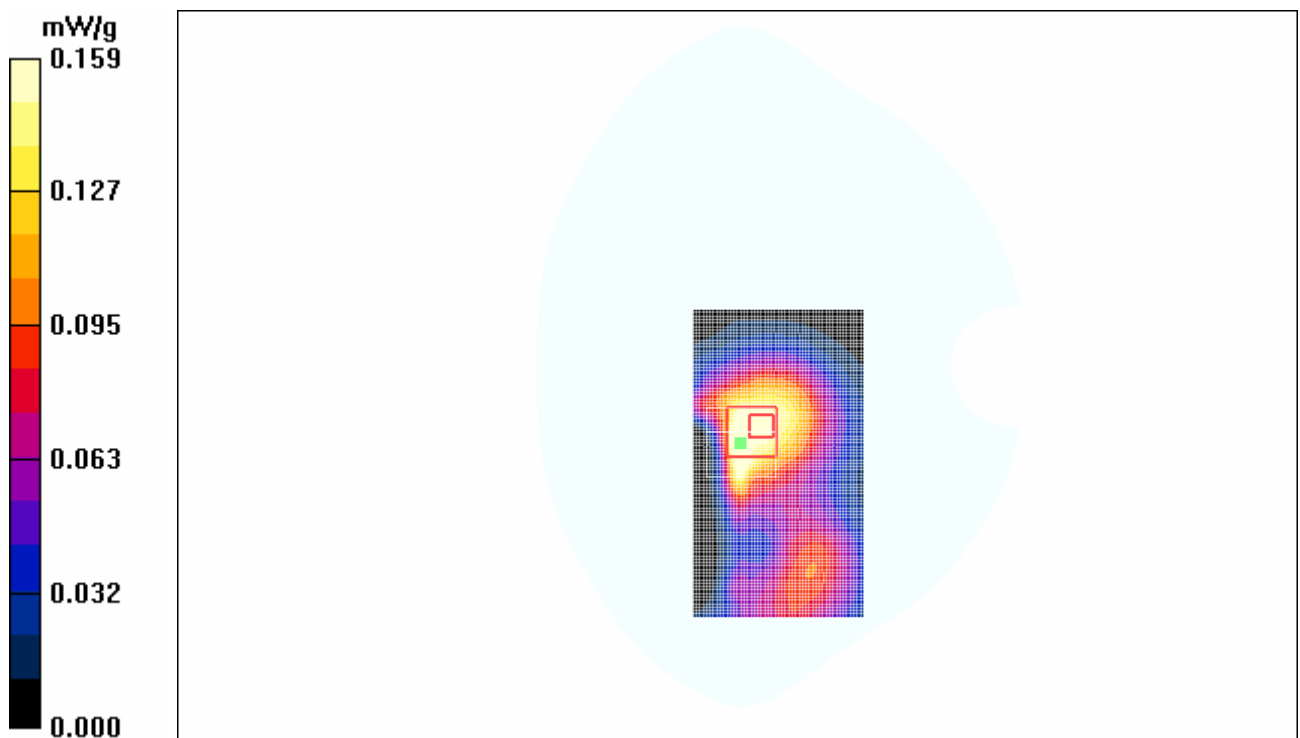


Figure 220 Body, Towards Phantom, Close GSM 1900 GPRS Channel 512

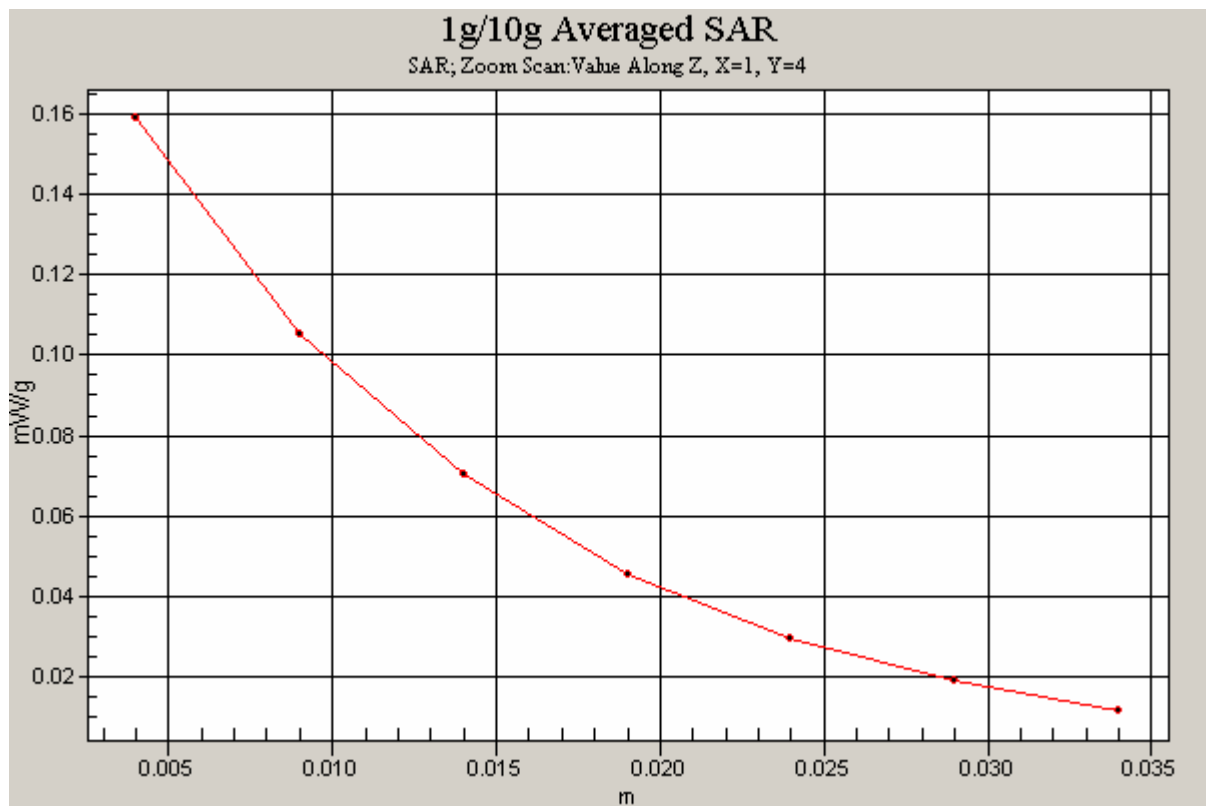


Figure 221 Z-Scan at power reference point (Body, Towards Phantom, Close GSM 1900 GPRS Channel 512)

GSM 1900 EGPRS Towards Ground Low Close

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

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

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

Reference Value = 8.58 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 0.699 W/kg

SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.407 mW/g

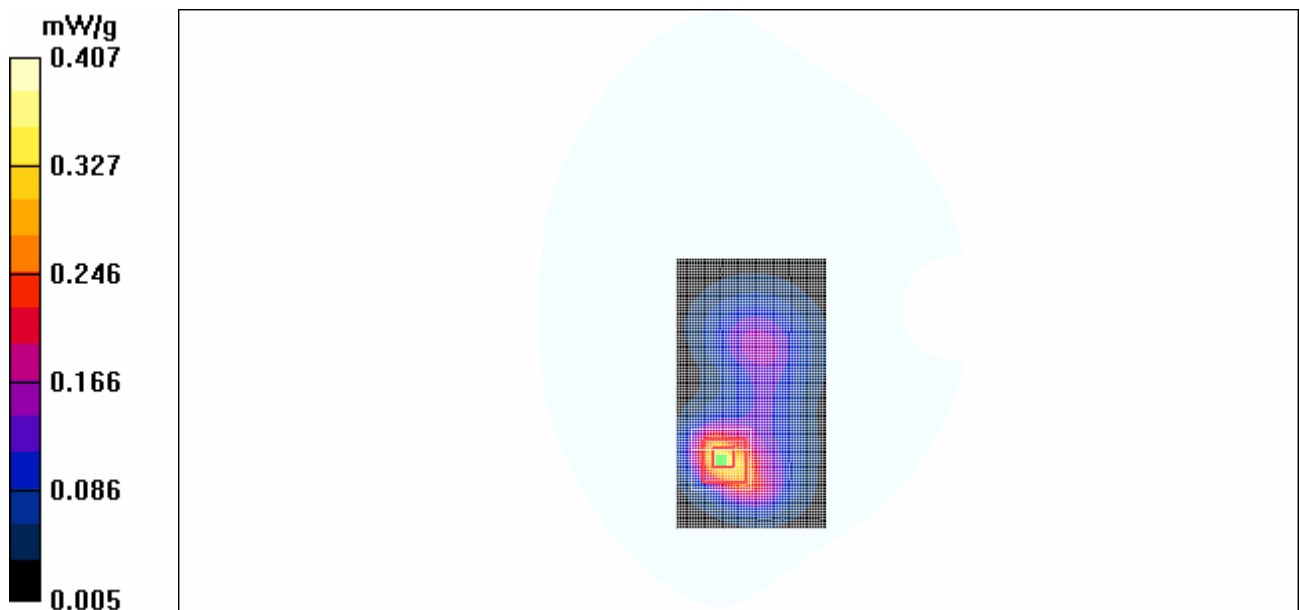


Figure 222 Body, Towards Ground, Close GSM 1900 EGPRS Channel 512

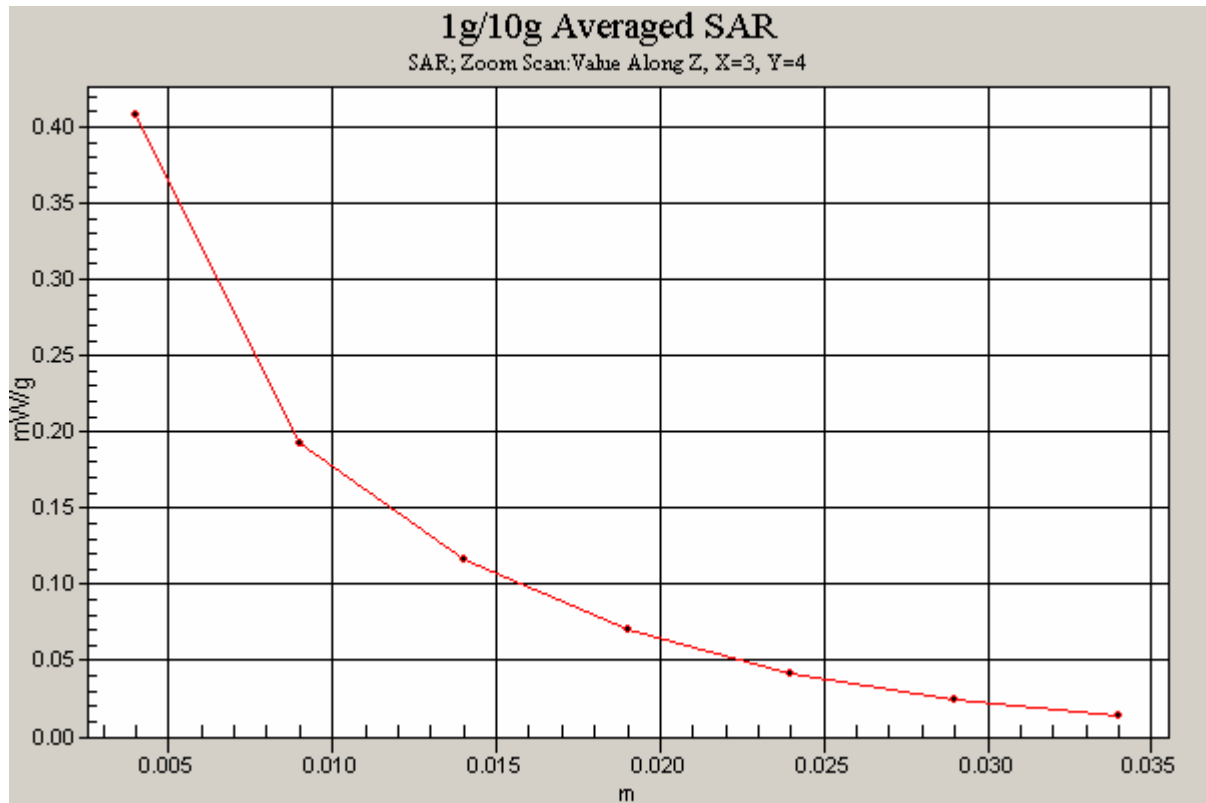


Figure 223 Z-Scan at power reference point (Body, Towards Ground, Close GSM 1900 EGPRS Channel 512)

WCDMA Band V Left Cheek High Open

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.947$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;

Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.919 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = 0.059 dB
Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.868 mW/g; SAR(10 g) = 0.598 mW/g
Maximum value of SAR (measured) = 0.932 mW/g

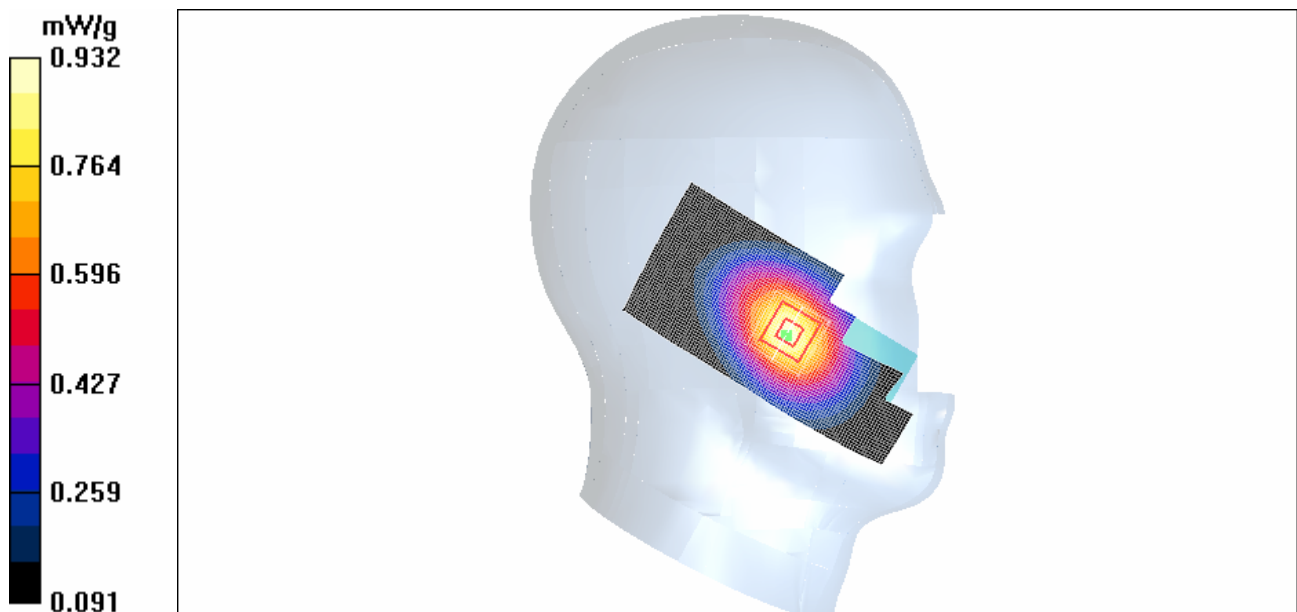


Figure 224 Left Hand Touch Cheek Open WCDMA Band V Channel 4233

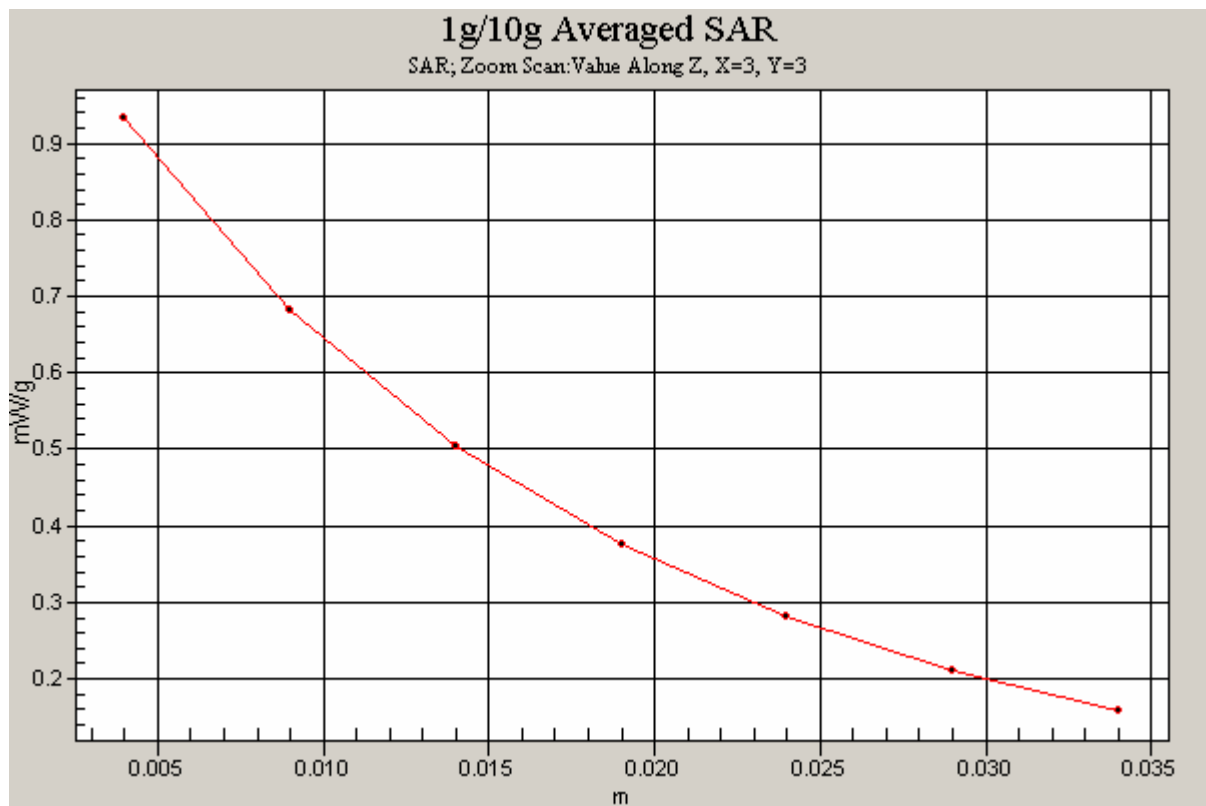


Figure 225 Z-Scan at power reference point (Left Hand Touch Cheek Open WCDMA Band V Channel 4233)

WCDMA Band V Left Cheek Middle Open

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.936$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm.

Maximum value of SAR (interpolated) = 0.926 mW/g

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

Reference Value = 12.8 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.849 mW/g; SAR(10 g) = 0.594 mW/g

Maximum value of SAR (measured) = 0.905 mW/g

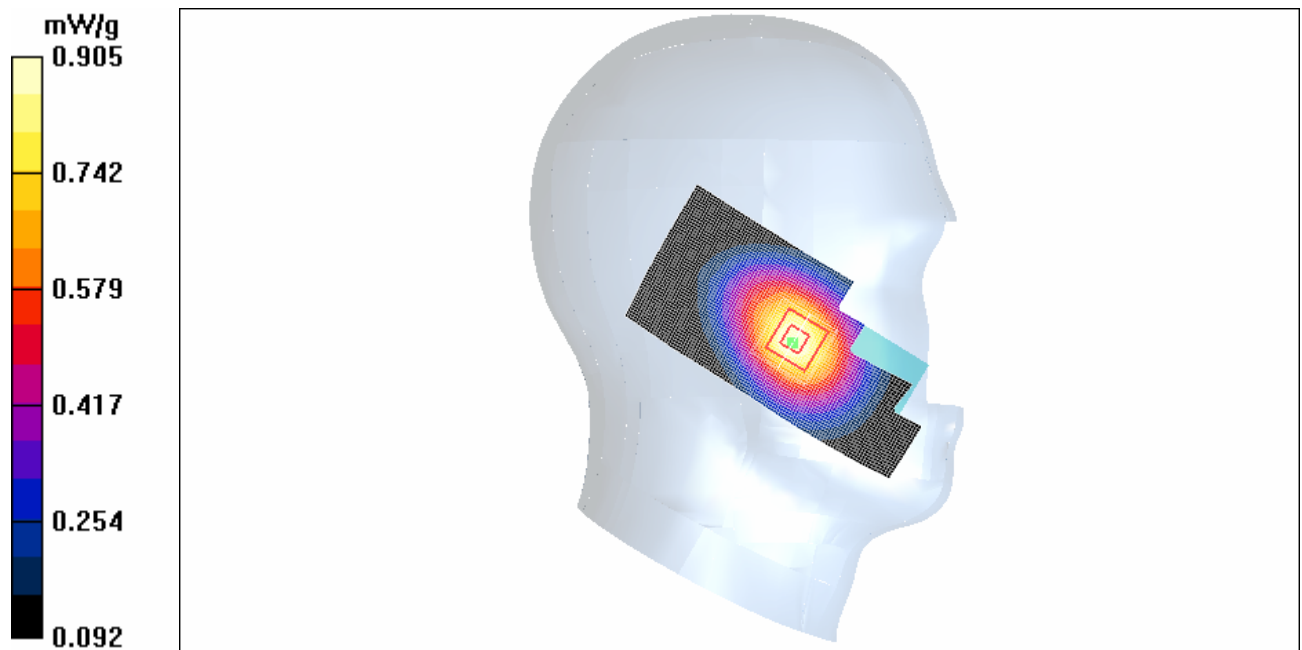


Figure 226 Left Hand Touch Cheek Open WCDMA Band V Channel 4182

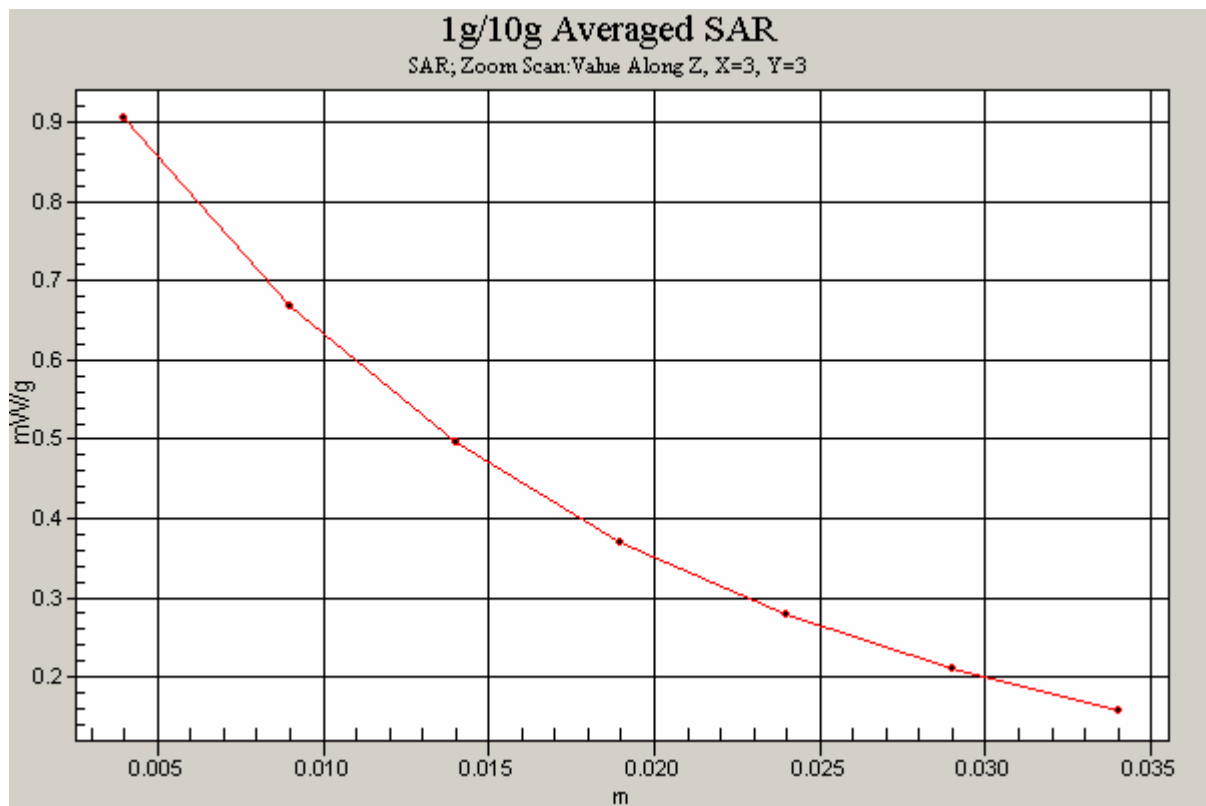


Figure 227 Z-Scan at power reference point (Left Hand Touch Cheek Open WCDMA Band V Channel 4182)

WCDMA Band V Left Cheek Low Open

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.724 mW/g

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

Reference Value = 11.5 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.909 W/kg

SAR(1 g) = 0.673 mW/g; SAR(10 g) = 0.471 mW/g

Maximum value of SAR (measured) = 0.716 mW/g

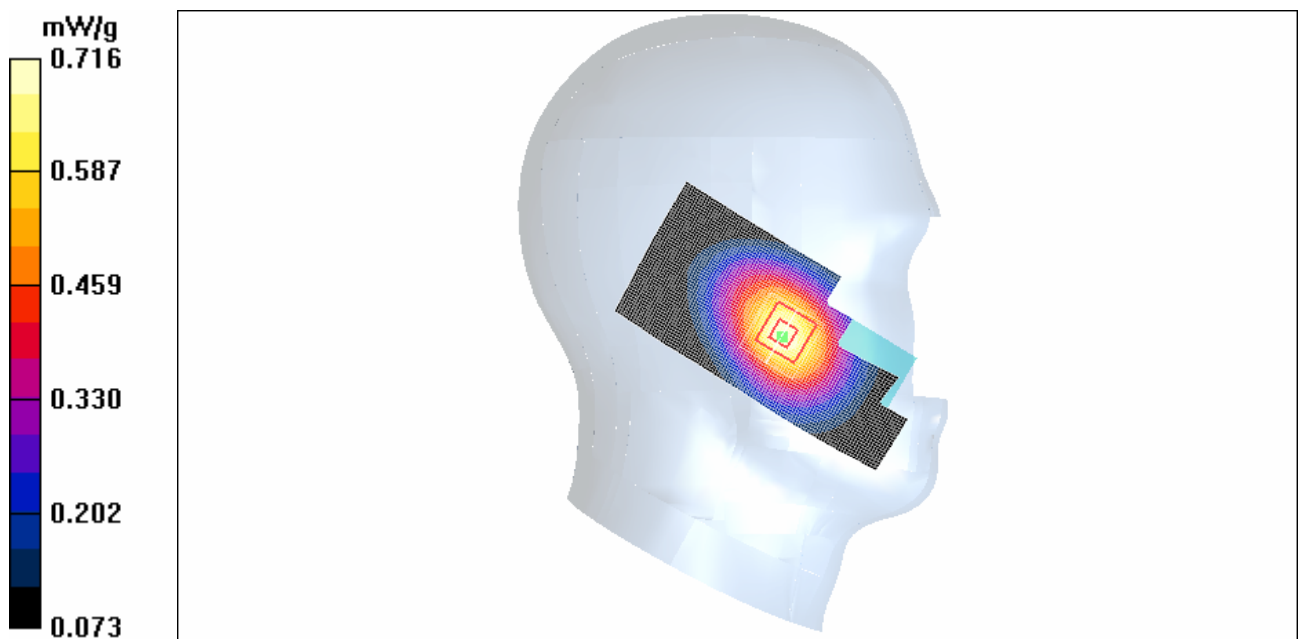


Figure 228 Left Hand Touch Cheek Open WCDMA Band V Channel 4132

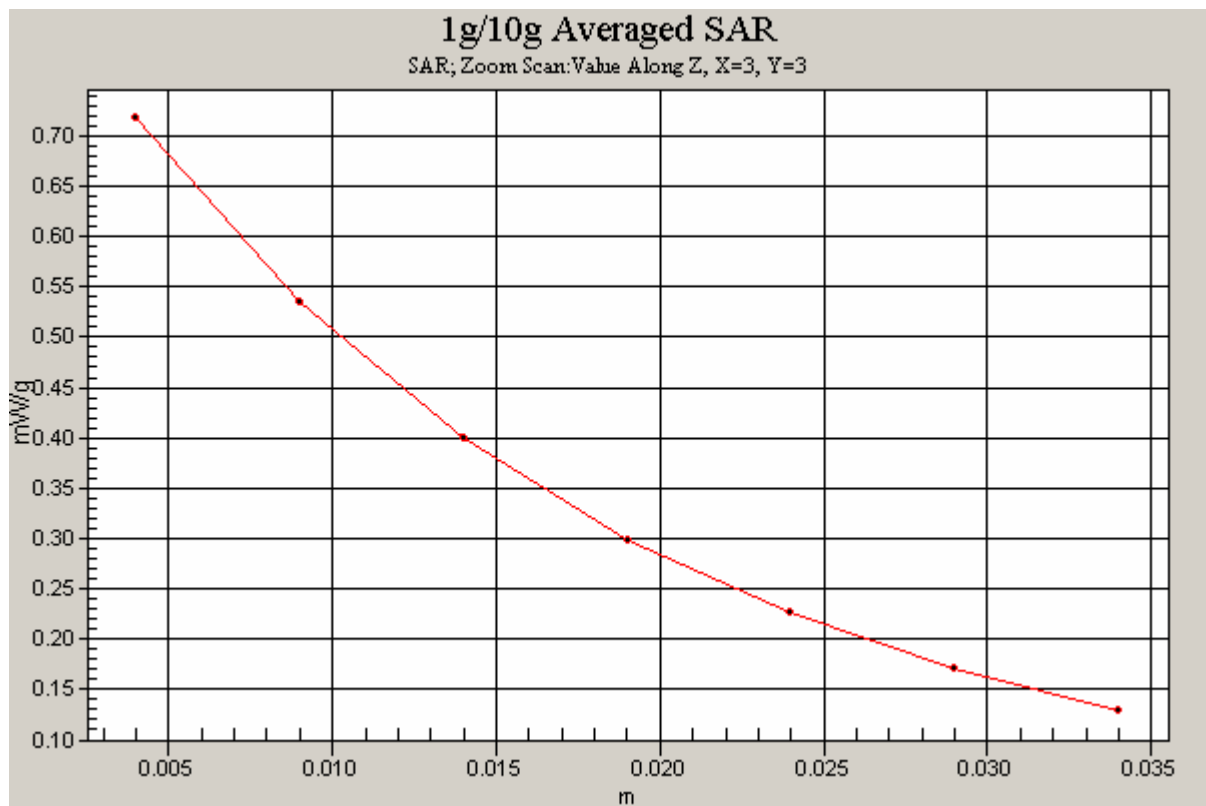


Figure 229 Z-Scan at power reference point (Left Hand Touch Cheek Open WCDMA Band V Channel 4132)

WCDMA Band V Left Tilt High Open

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.947$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;

Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.476 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.6 V/m; Power Drift = 0.002 dB
Peak SAR (extrapolated) = 0.594 W/kg
SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.334 mW/g
Maximum value of SAR (measured) = 0.489 mW/g

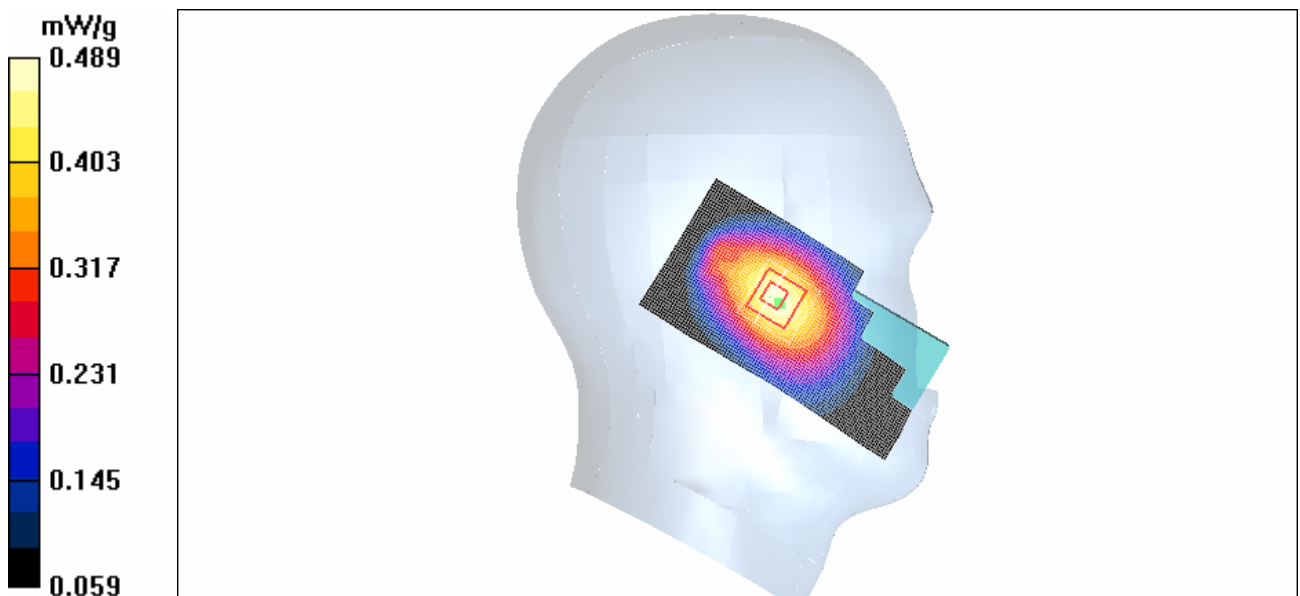


Figure 230 Left Hand Tilt 15° Open WCDMA Band V Channel 4233

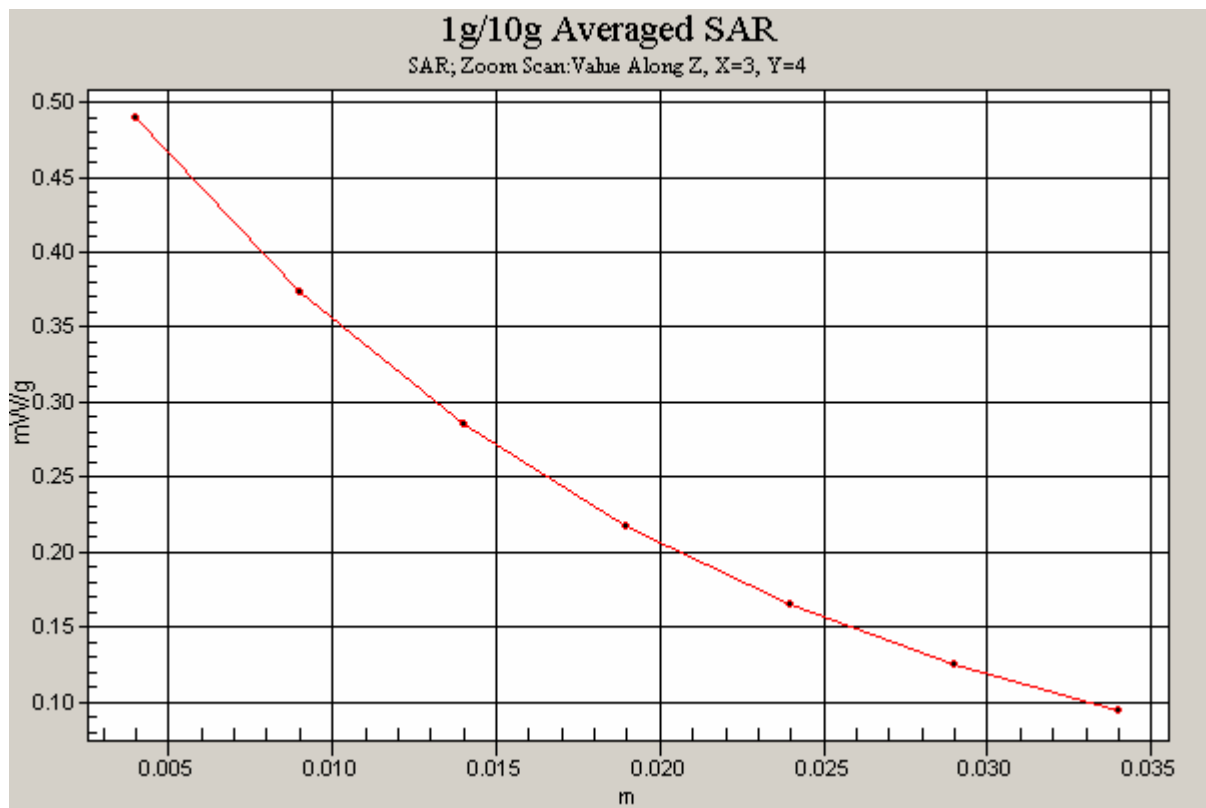


Figure 231 Z-Scan at power reference point (Left Hand Tilt 15° Open WCDMA Band V Channel 4233)

WCDMA Band V Left Tilt Middle Open

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.936$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.433 mW/g

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

Reference Value = 17.3 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.524 W/kg

SAR(1 g) = 0.415 mW/g; SAR(10 g) = 0.305 mW/g

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

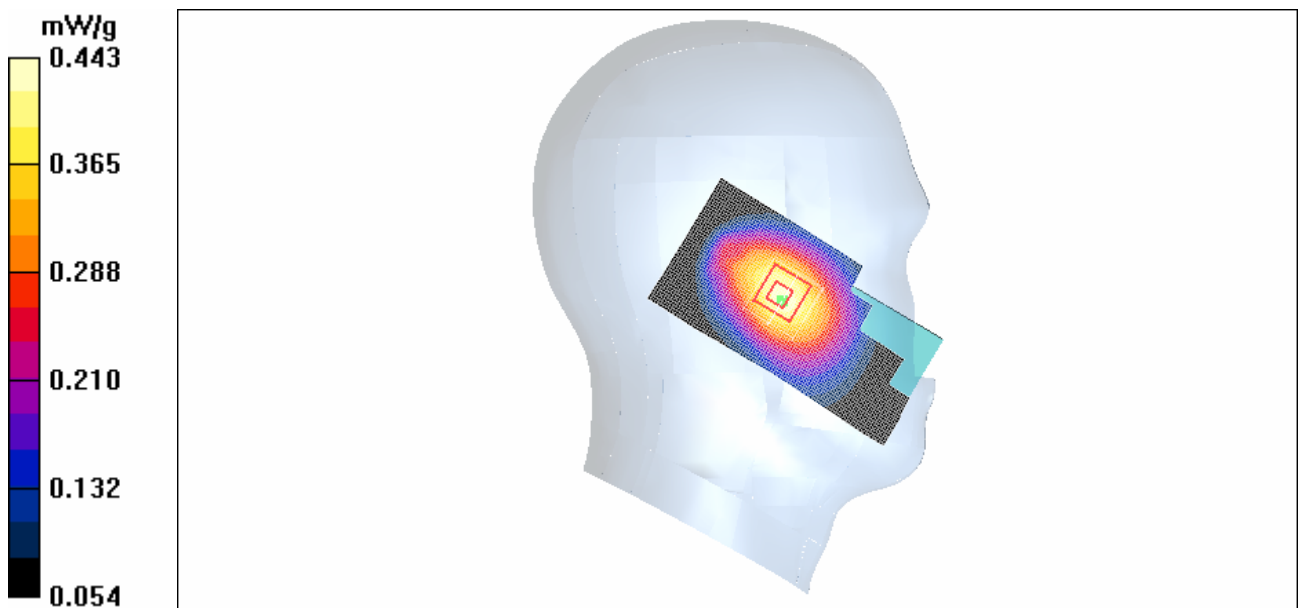


Figure 232 Left Hand Tilt 15° Open WCDMA Band V Channel 4182

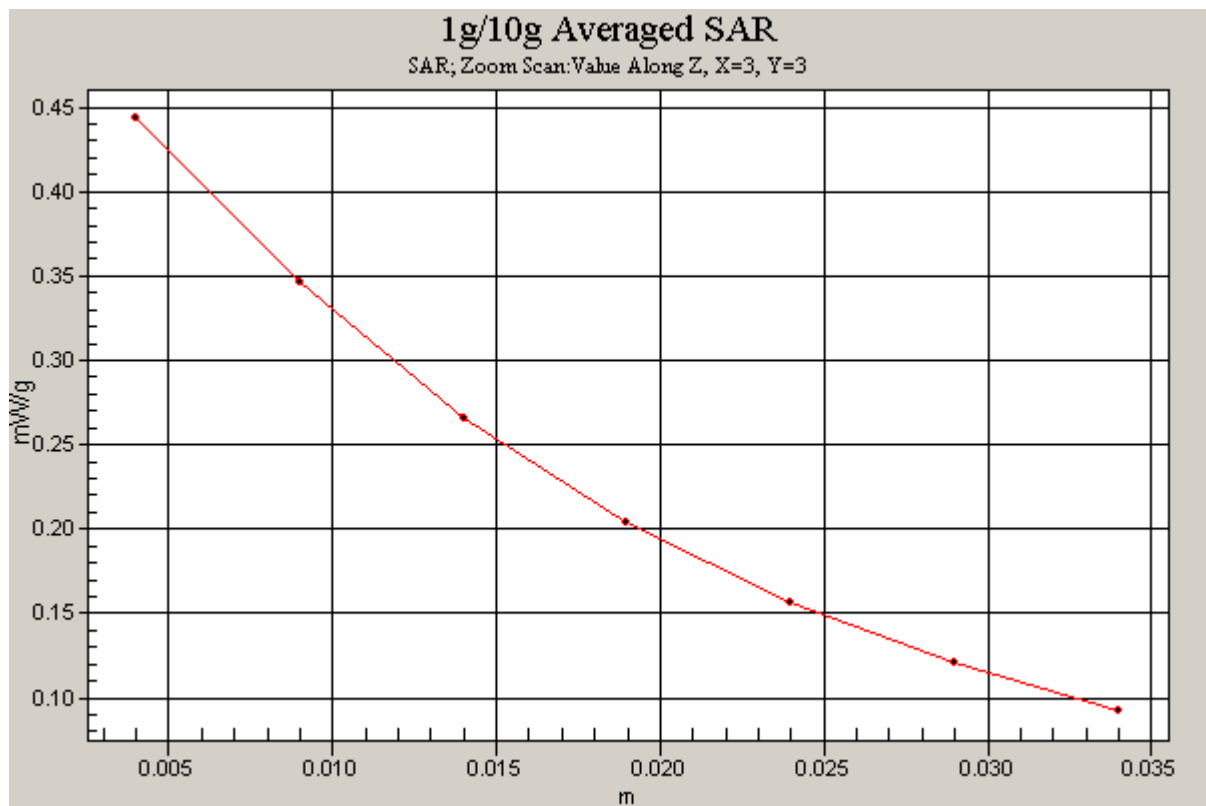


Figure 233 Z-Scan at power reference point (Left Hand Tilt 15° Open WCDMA Band V Channel 4182)

WCDMA Band V Left Tilt Low Open

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.320 mW/g

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

Reference Value = 14.8 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.226 mW/g

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

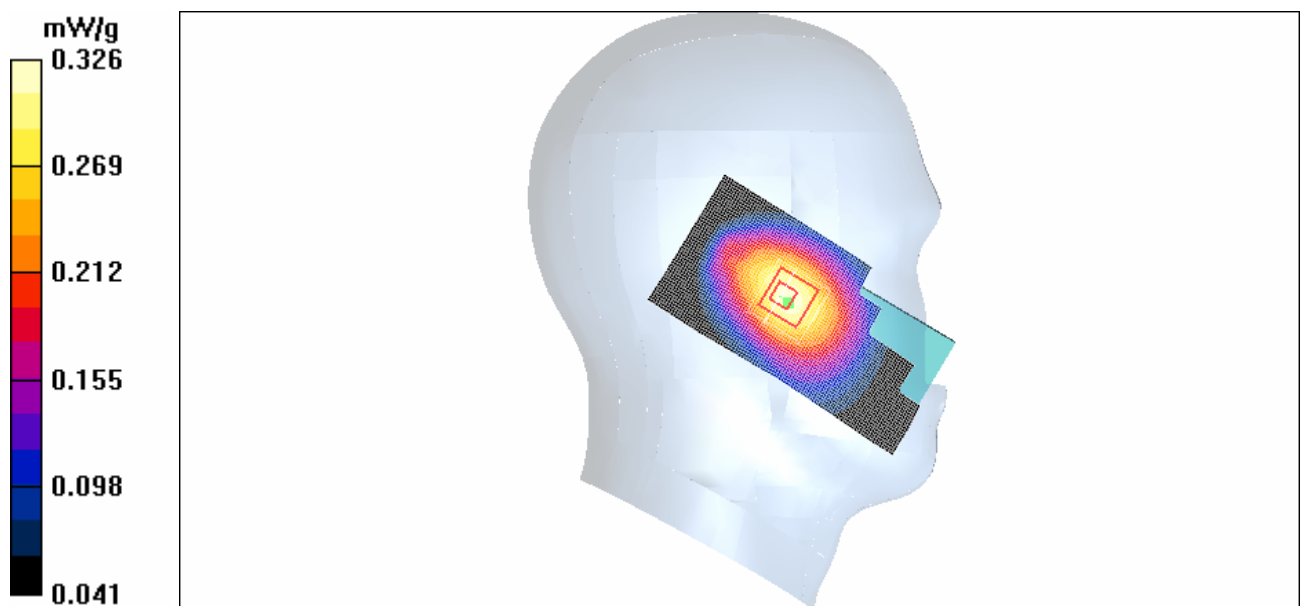


Figure 234 Left Hand Tilt 15° Open WCDMA Band V Channel 4132

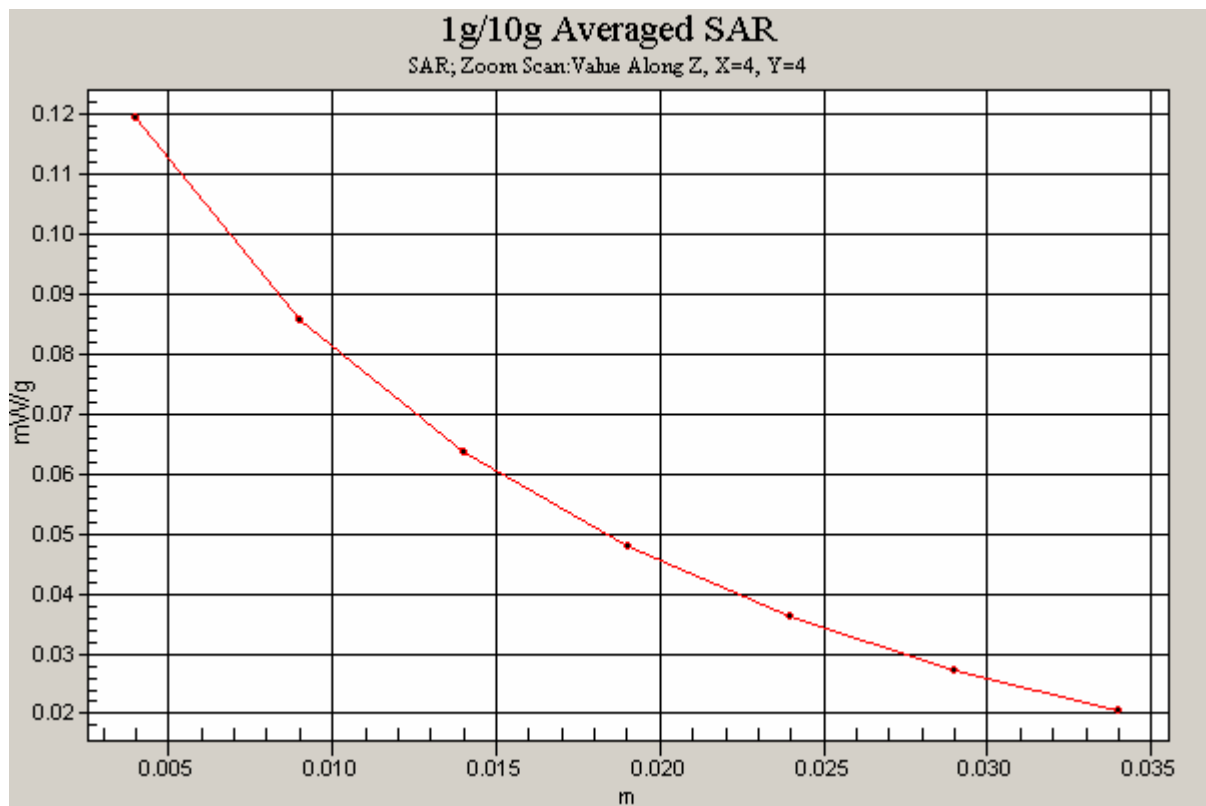


Figure 265 Z-Scan at power reference point (Left Hand Touch Cheek Close WCDMA Band V
Channel 4233)

WCDMA Band V Left Cheek Middle Close

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.936$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.166 mW/g

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

Reference Value = 5.55 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.175 mW/g

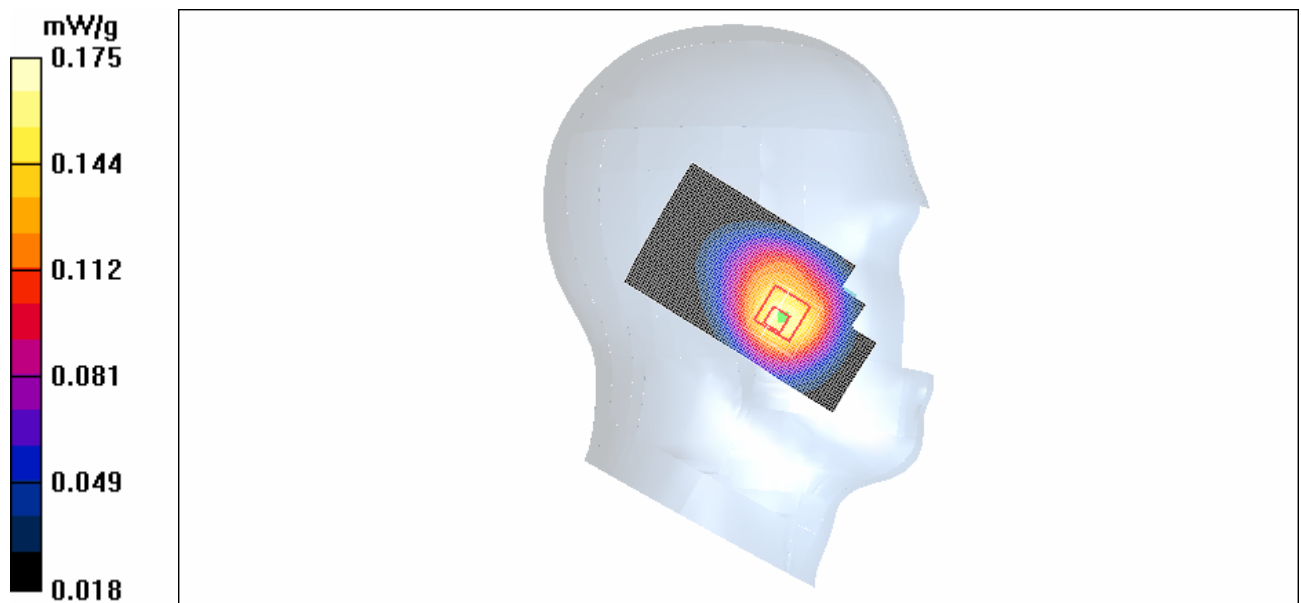


Figure 266 Left Hand Touch Cheek Close WCDMA Band V Channel 4182

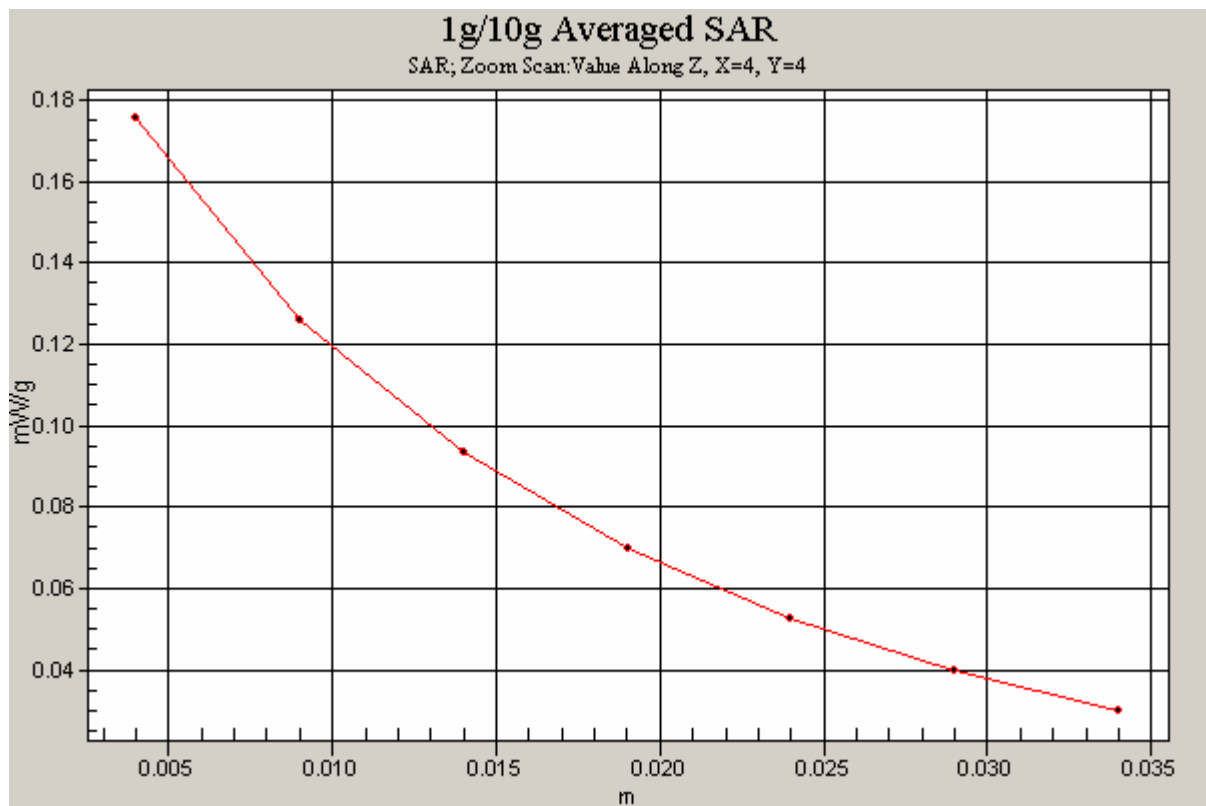


Figure 267 Z-Scan at power reference point (Left Hand Touch Cheek Close WCDMA Band V Channel 4182)

WCDMA Band V Left Cheek Low Close

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.227 mW/g

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

Reference Value = 6.62 V/m; Power Drift = 0.130 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.155 mW/g

Maximum value of SAR (measured) = 0.236 mW/g

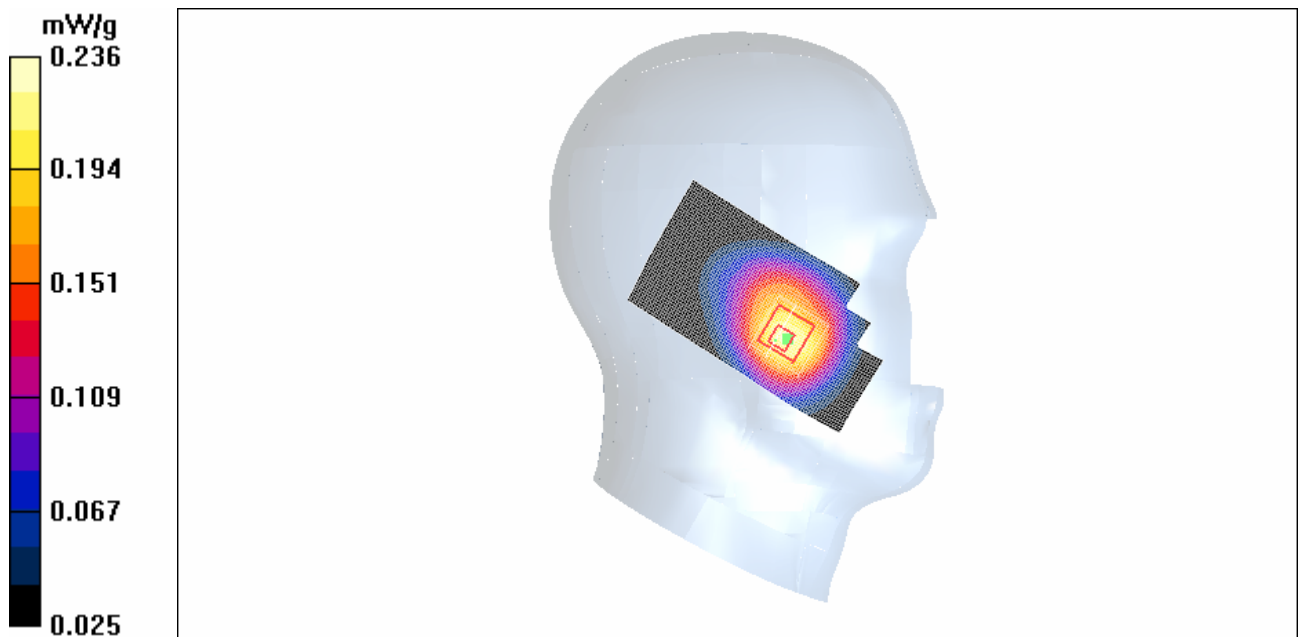


Figure 268 Left Hand Touch Cheek Close WCDMA Band V Channel 4132

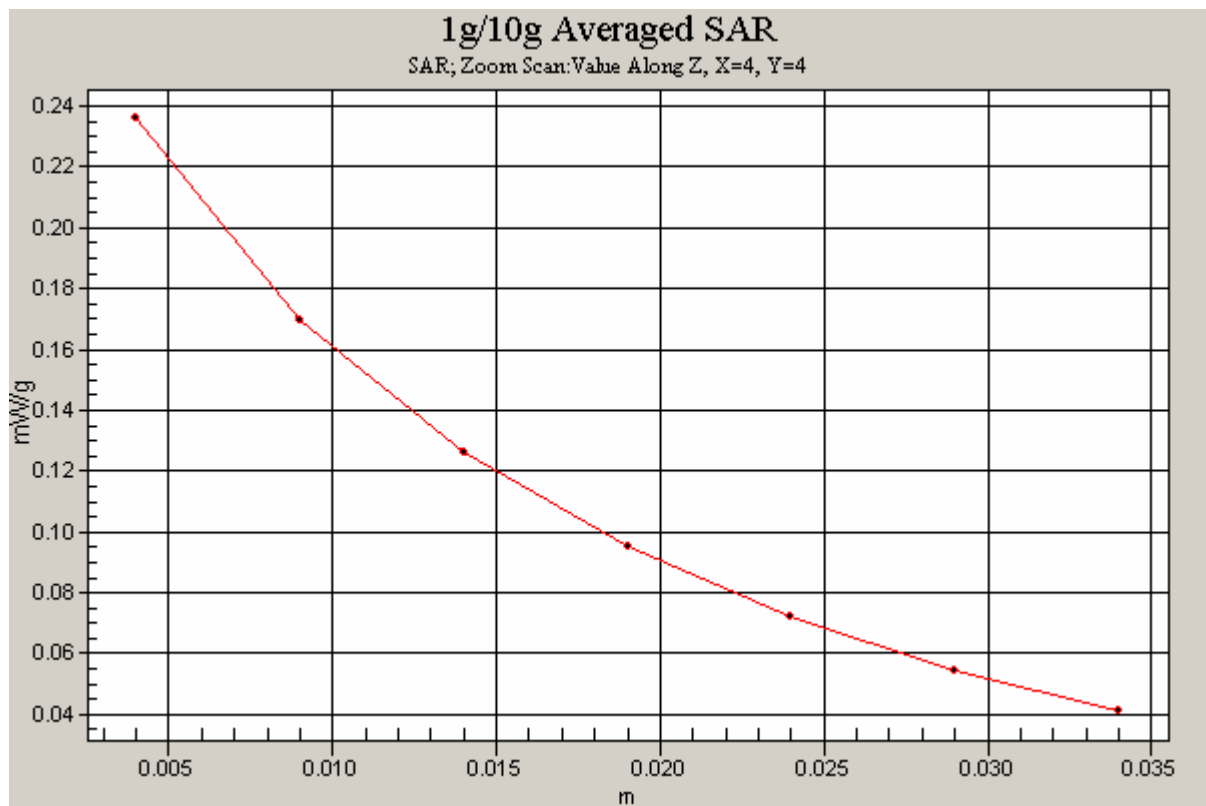


Figure 269 Z-Scan at power reference point (Left Hand Touch Cheek Close WCDMA Band V
Channel 4132)

WCDMA Band V Left Tilt High Close

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.947$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;

Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.105 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.87 V/m; Power Drift = 0.091 dB
Peak SAR (extrapolated) = 0.129 W/kg
SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.074 mW/g
Maximum value of SAR (measured) = 0.107 mW/g

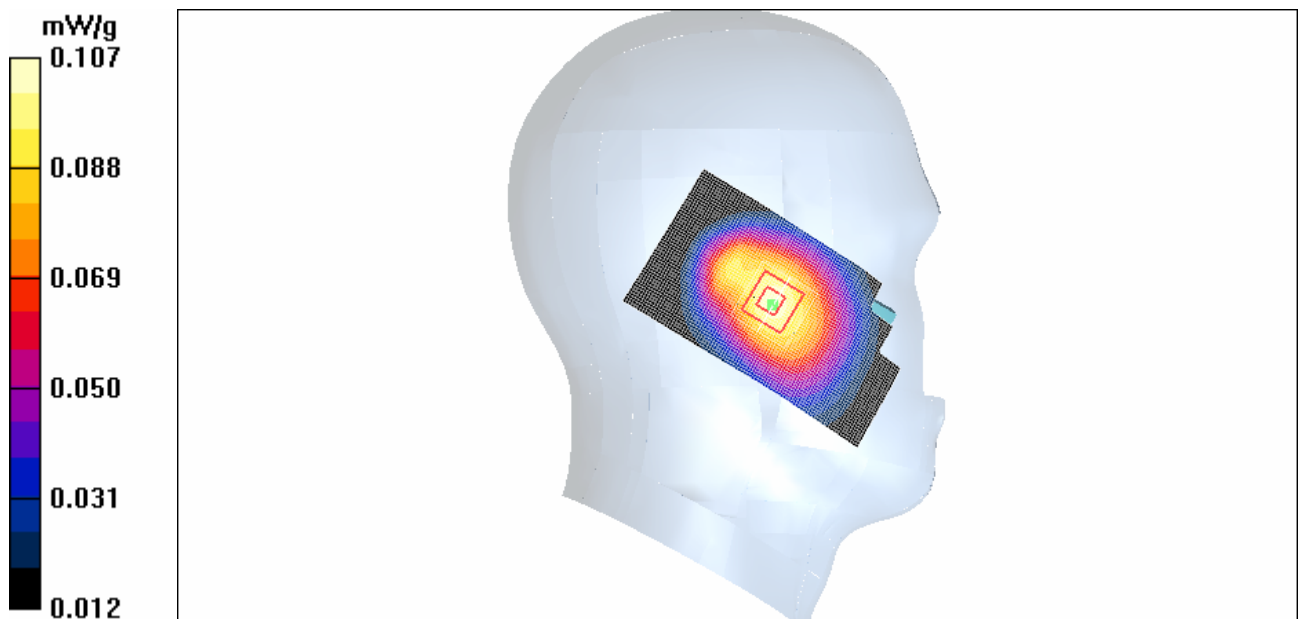


Figure 270 Left Hand Tilt 15°Close WCDMA Band V Channel 4233

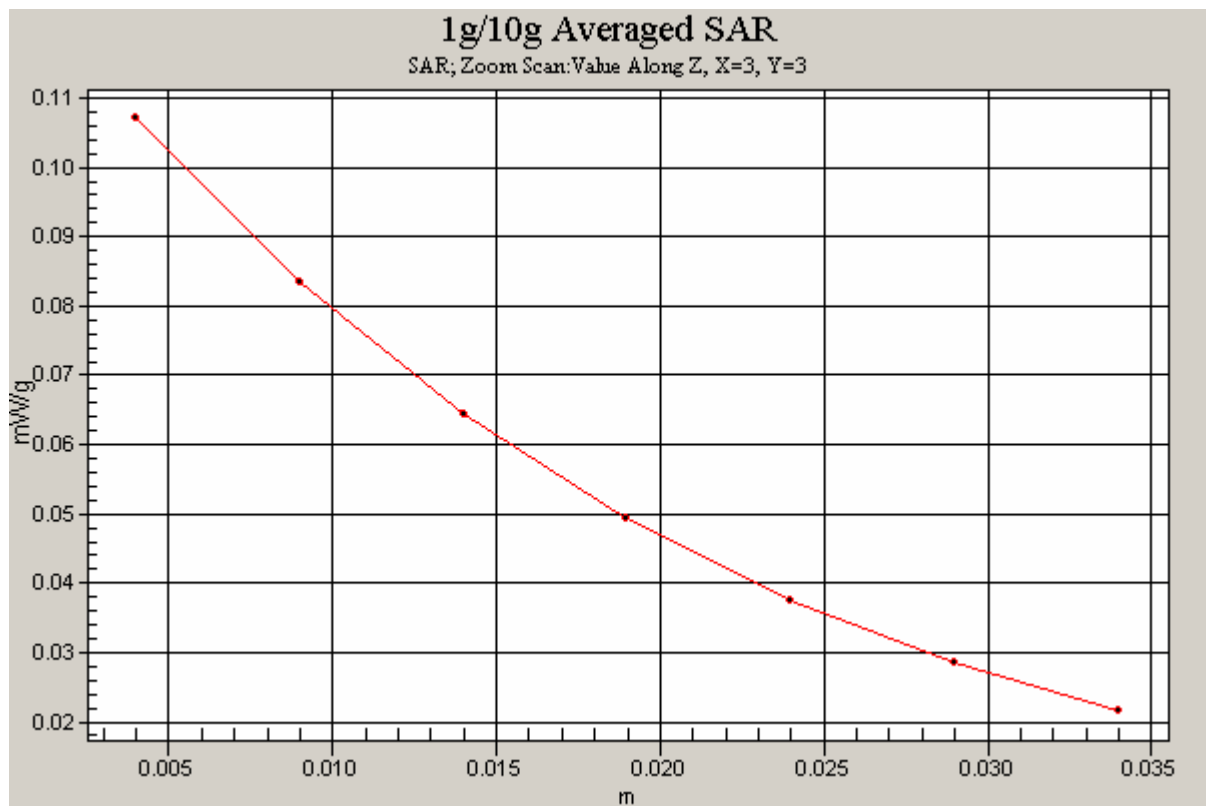


Figure 271 Z-Scan at power reference point (Left Hand Tilt 15° Close WCDMA Band V Channel 4233)

WCDMA Band V Left Tilt Middle Close

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.936$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.155 mW/g

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

Reference Value = 11.0 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.190 W/kg

SAR(1 g) = 0.149 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.158 mW/g

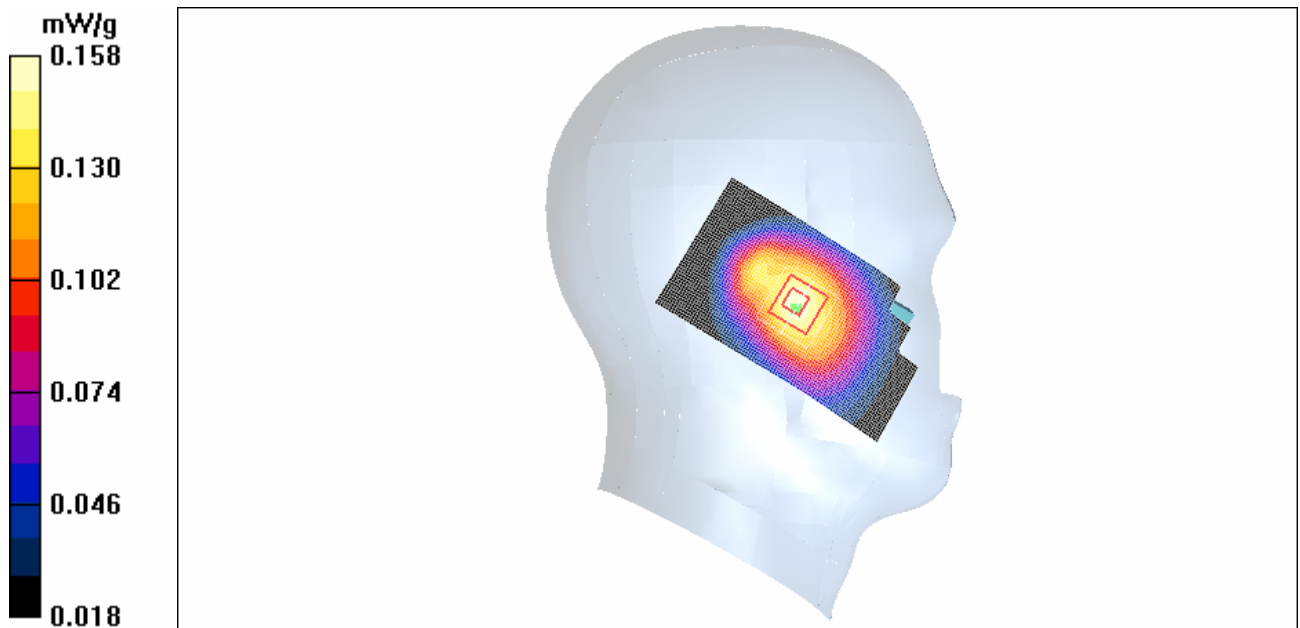


Figure 272 Left Hand Tilt 15° Close WCDMA Band V Channel 4182

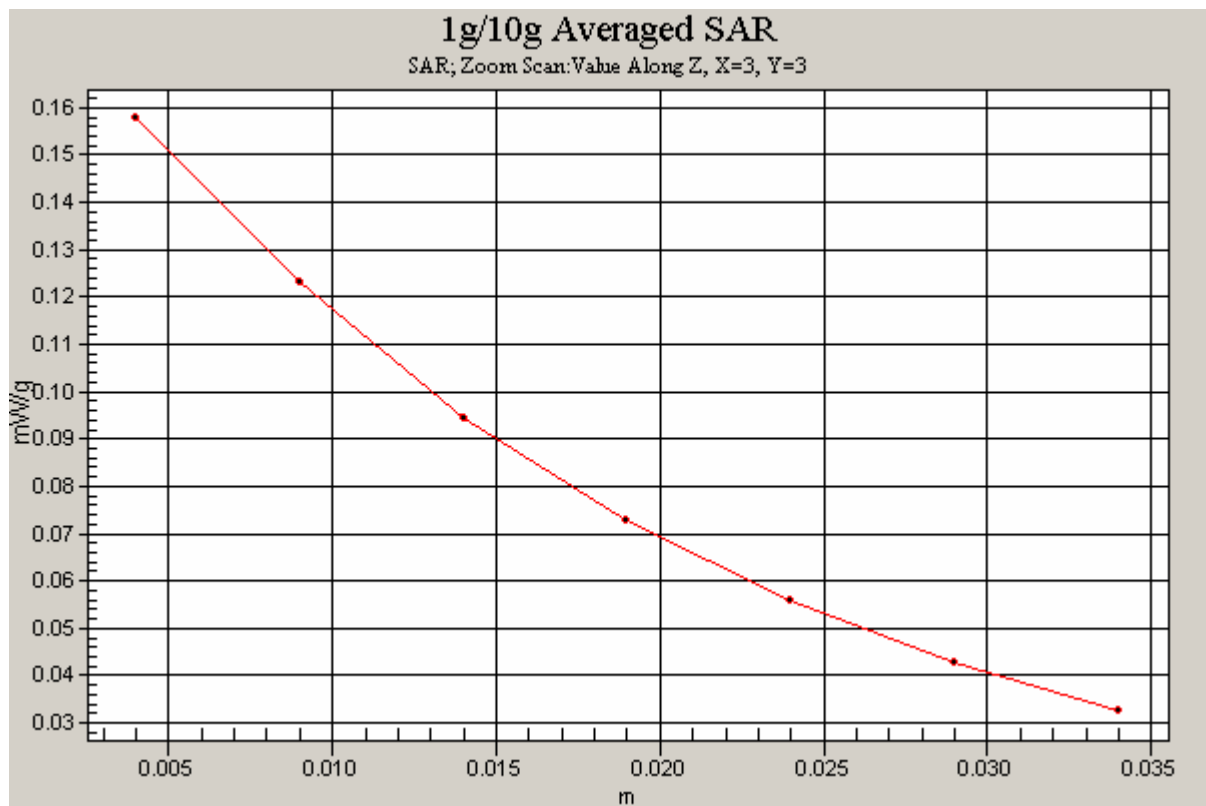


Figure 273 Z-Scan at power reference point (Left Hand Tilt 15° Close WCDMA Band V Channel 4182)

WCDMA Band V Left Tilt Low Close

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.204 mW/g

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

Reference Value = 12.5 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.243 W/kg

SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.203 mW/g

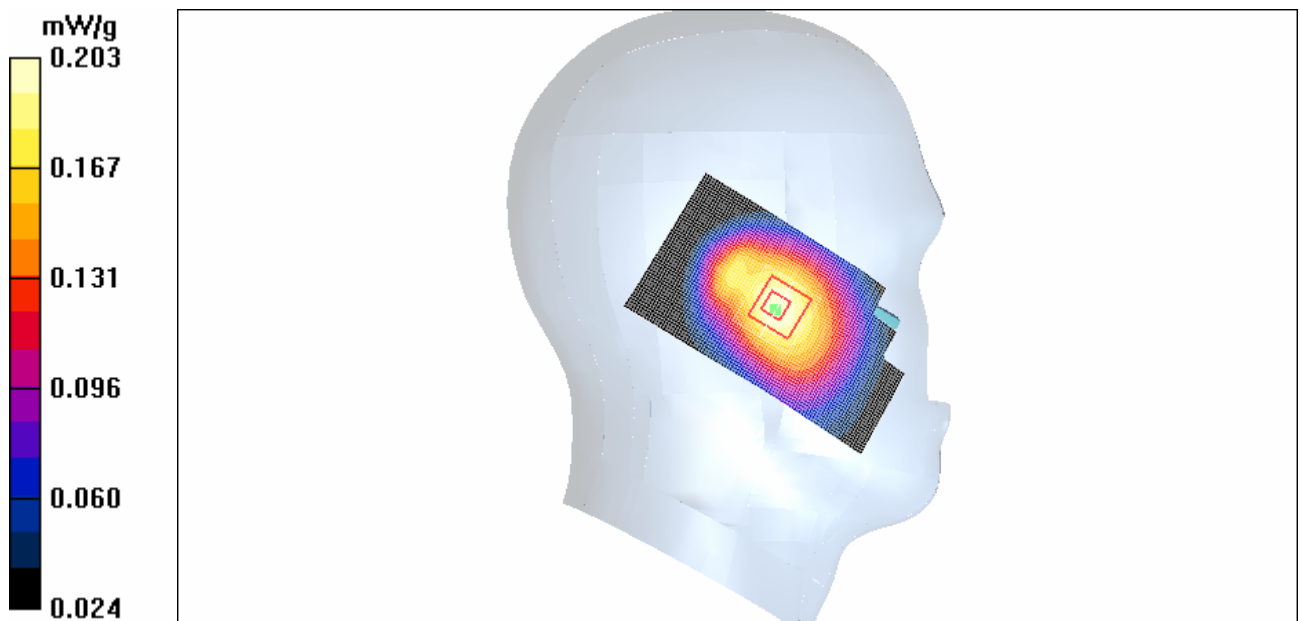


Figure 274 Left Hand Tilt 15° Close WCDMA Band V Channel 4132

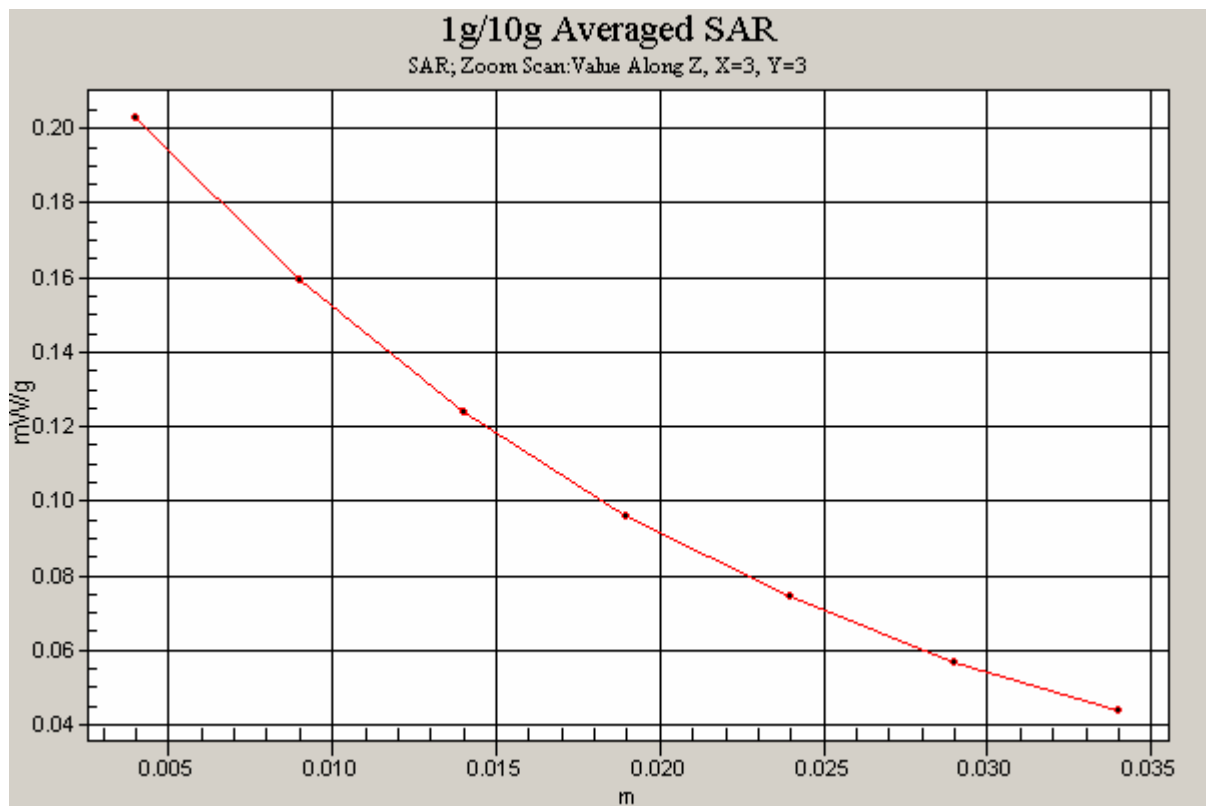


Figure 275 Z-Scan at power reference point (Left Hand Tilt 15° Close WCDMA Band V Channel 4132)

WCDMA Band V Right Cheek High Close

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.947$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;

Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.133 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.90 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 0.162 W/kg
SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.093 mW/g
Maximum value of SAR (measured) = 0.131 mW/g

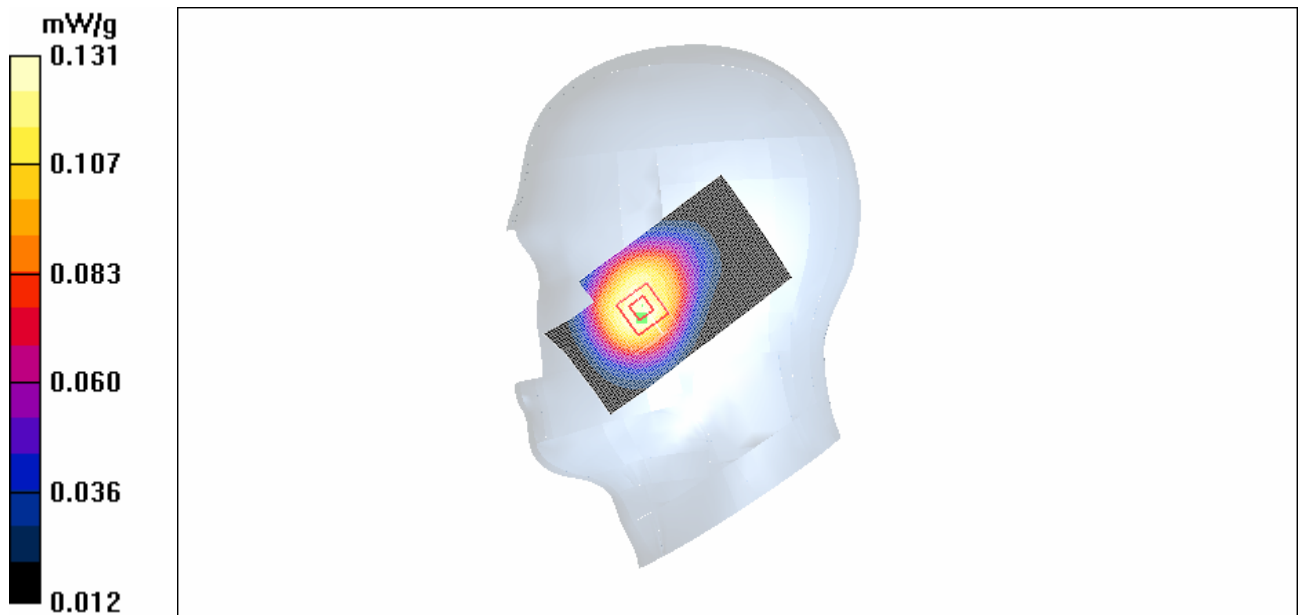


Figure 276 Right Hand Touch Cheek Close WCDMA Band V Channel 4233

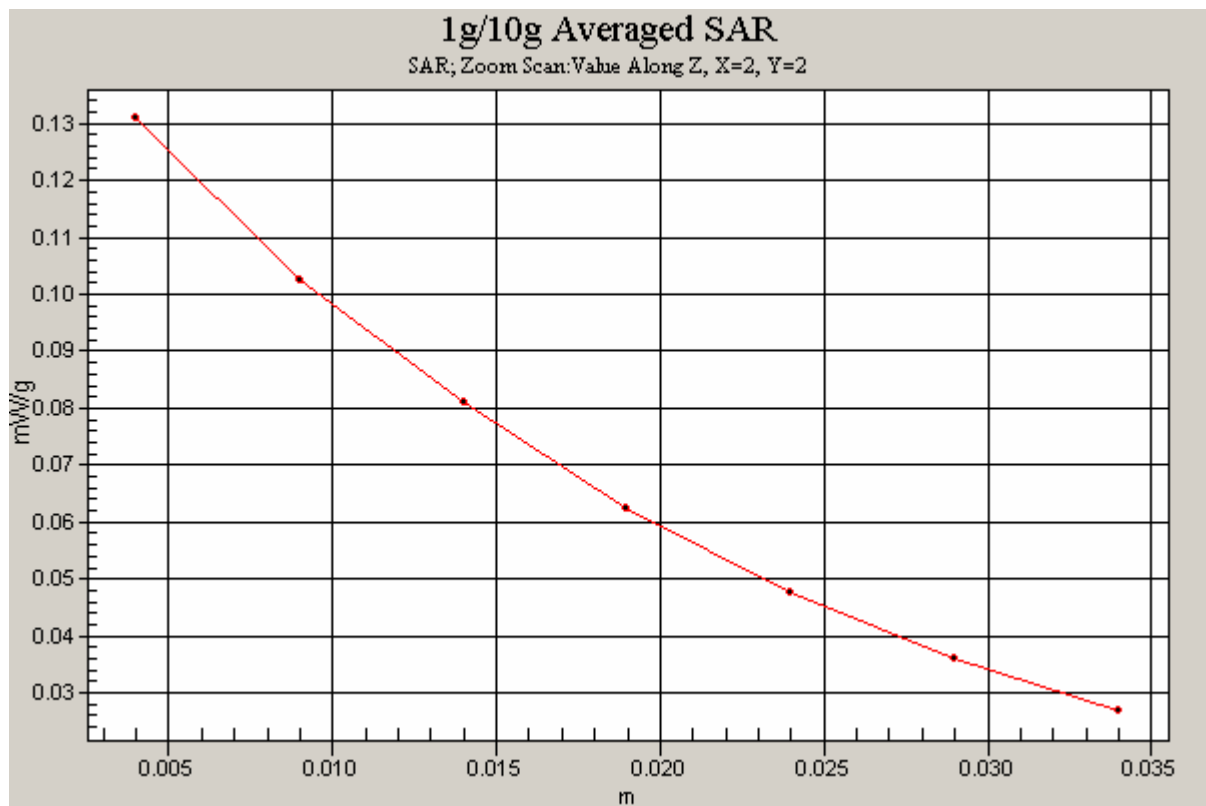


Figure 277 Z-Scan at power reference point (Right Hand Touch Cheek Close WCDMA Band V Channel 4233)

WCDMA Band V Right Cheek Middle Close

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.936$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.198 mW/g

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

Reference Value = 6.10 V/m; Power Drift = 0.138 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.191 mW/g; SAR(10 g) = 0.142 mW/g

Maximum value of SAR (measured) = 0.202 mW/g



Figure 278 Right Hand Touch Cheek Close WCDMA Band V Channel 4182

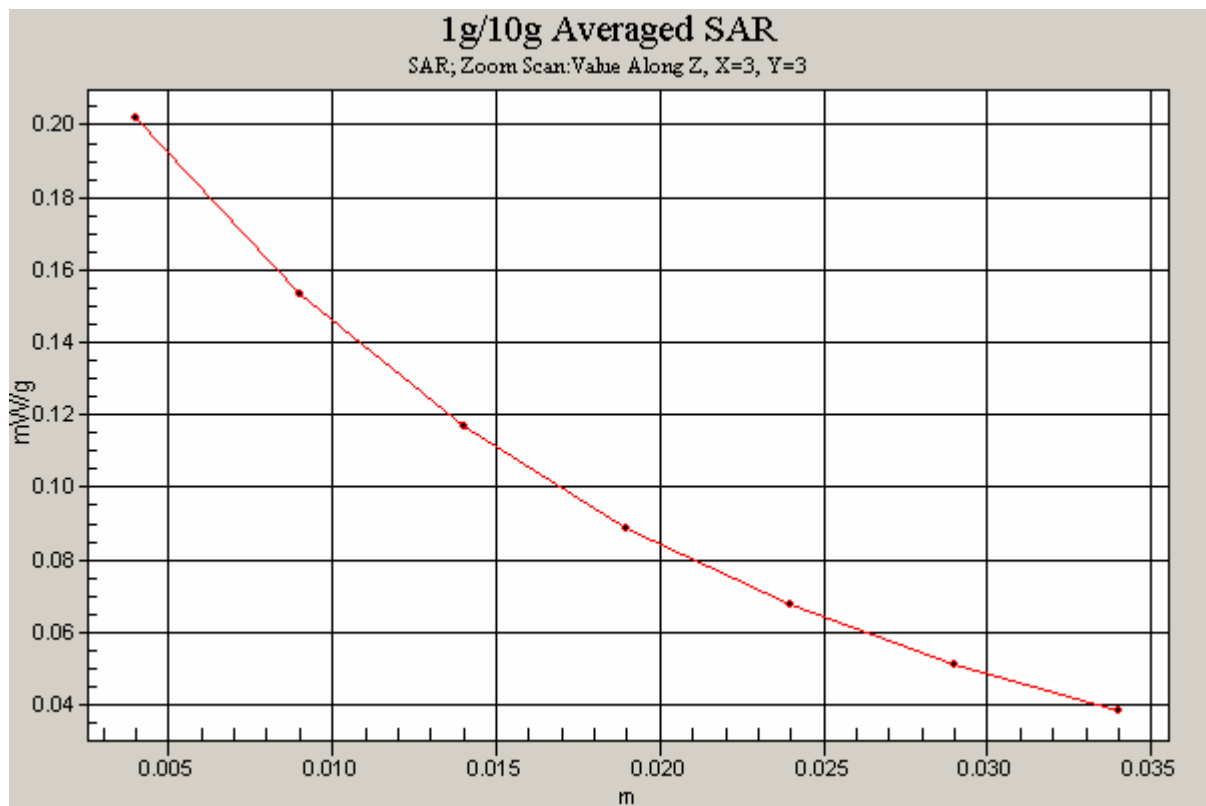


Figure 279 Z-Scan at power reference point (Right Hand Touch Cheek Close WCDMA Band V Channel 4182)

WCDMA Band V Right Cheek Low Close

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Cheek Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.296 mW/g

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

Reference Value = 7.55 V/m; Power Drift = 0.194 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.210 mW/g

Maximum value of SAR (measured) = 0.298 mW/g

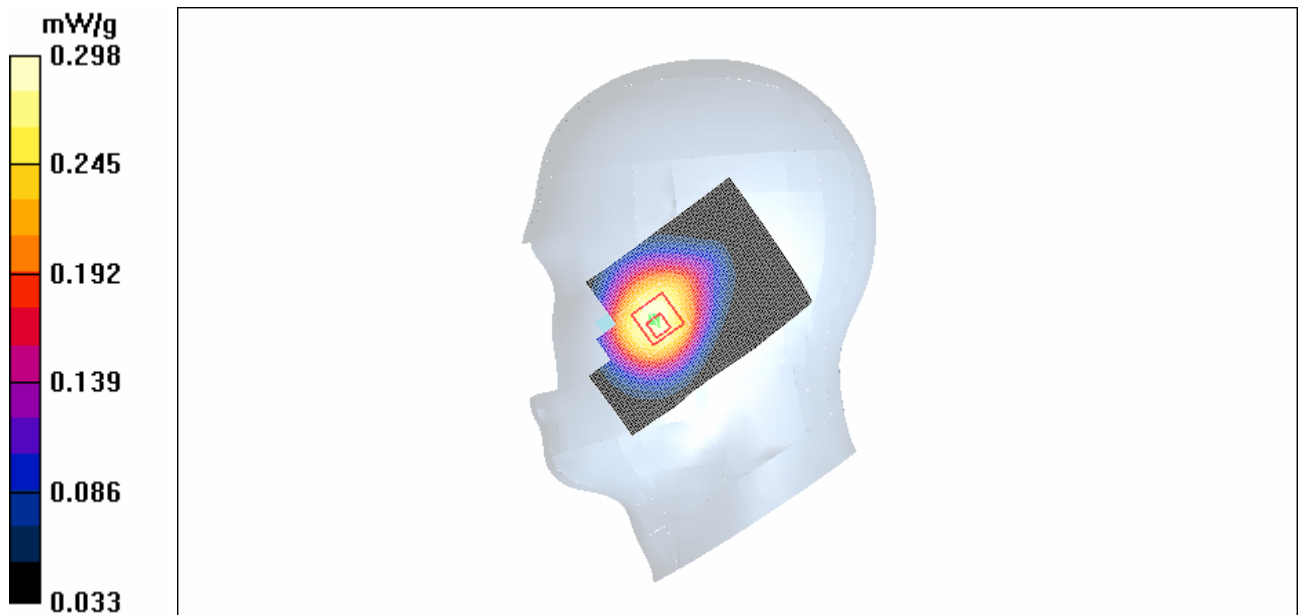


Figure 280 Right Hand Touch Cheek Close WCDMA Band V Channel 4132

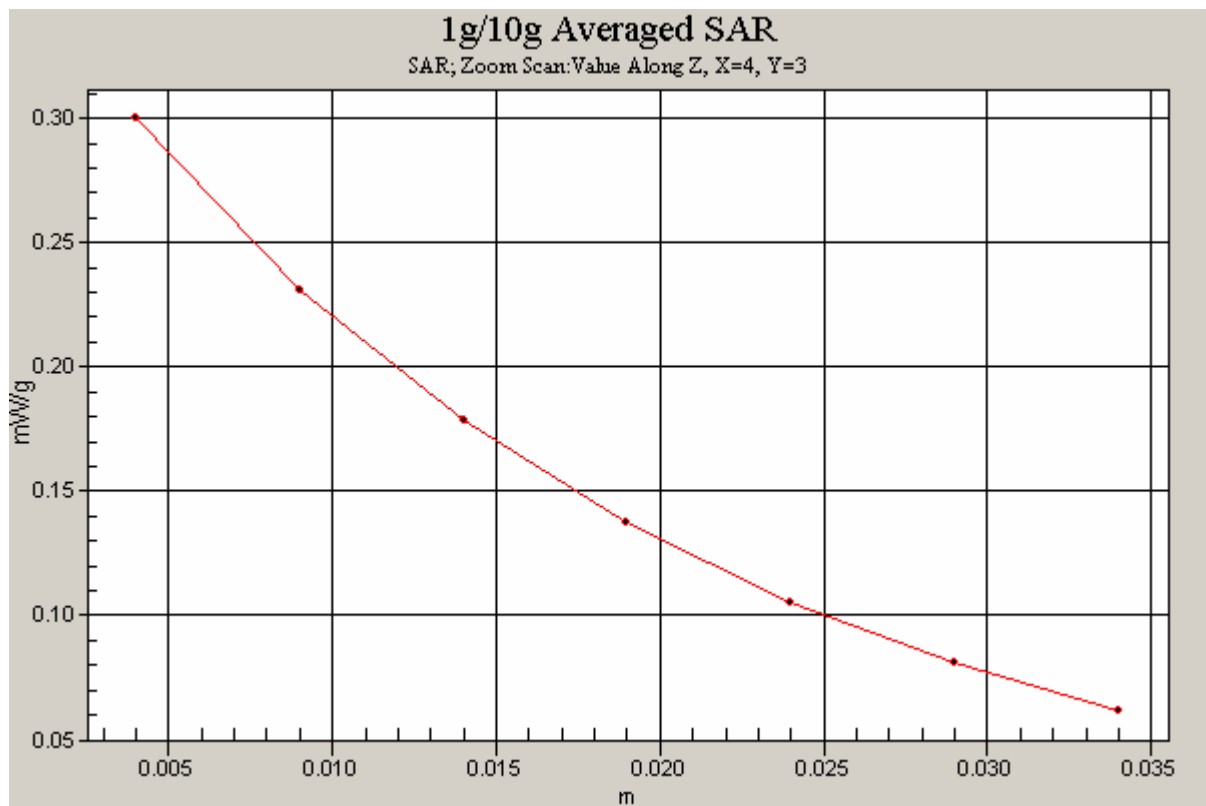


Figure 281 Z-Scan at power reference point (Right Hand Touch Cheek Close WCDMA Band V Channel 4132)

WCDMA Band V Right Tilt High Close

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.947$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;

Tilt High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.115 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.91 V/m; Power Drift = -0.072 dB
Peak SAR (extrapolated) = 0.137 W/kg
SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.079 mW/g
Maximum value of SAR (measured) = 0.114 mW/g



Figure 282 Right Hand Tilt 15° Close WCDMA Band V Channel 4233

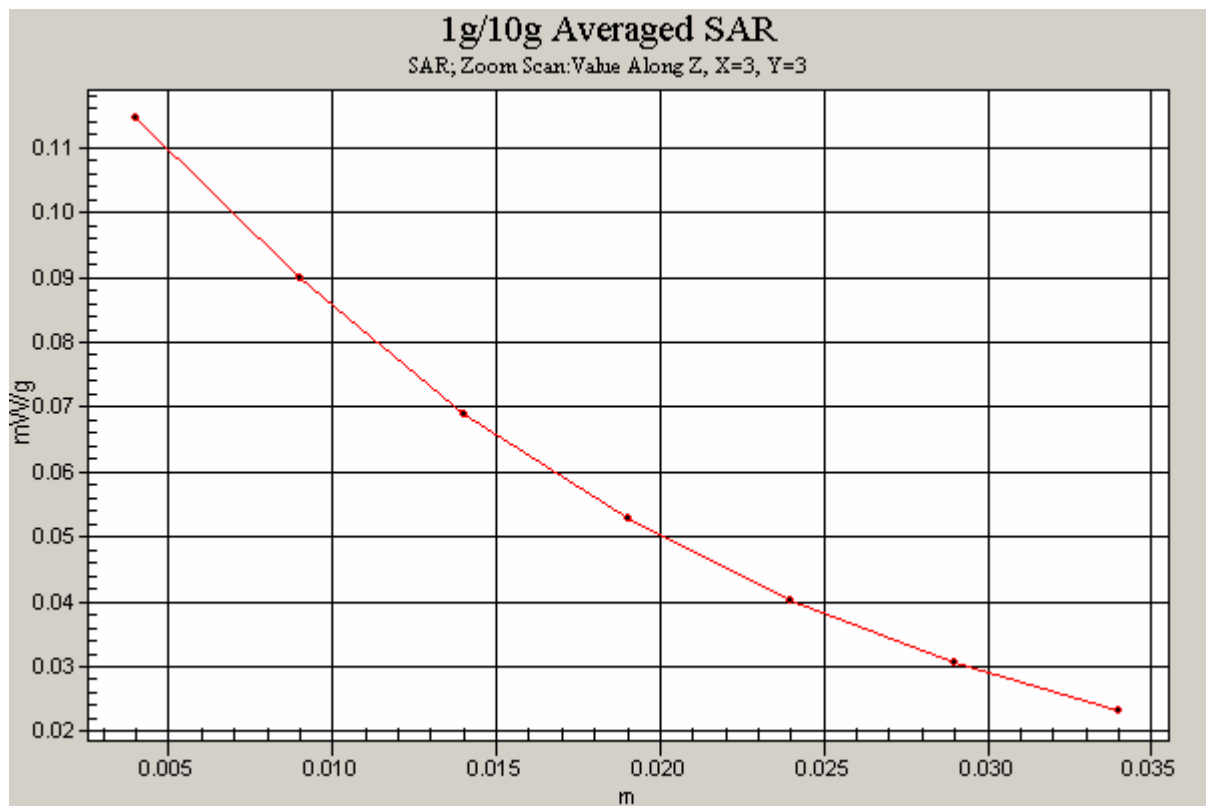


Figure 283 Z-Scan at power reference point (Right Hand Tilt 15° Close WCDMA Band V Channel 4233)

WCDMA Band V Right Tilt Middle Close

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.936$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

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

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

Reference Value = 11.0 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 0.203 W/kg

SAR(1 g) = 0.162 mW/g; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.171 mW/g



Figure 284 Right Hand Tilt 15° Close WCDMA Band V Channel 4182

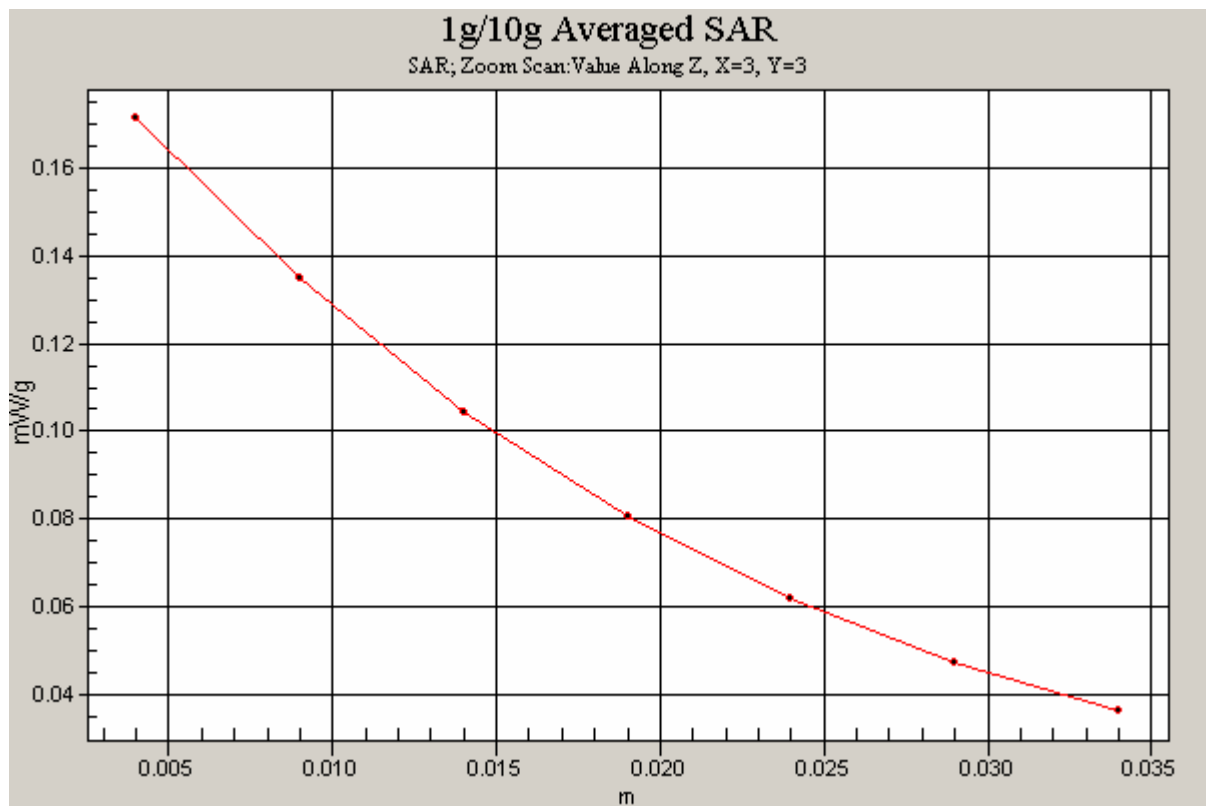


Figure 285 Z-Scan at power reference point (Right Hand Tilt 15° Close WCDMA Band V Channel 4182)

WCDMA Band V Right Tilt Low Close

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.245 mW/g

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

Reference Value = 13.2 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.170 mW/g

Maximum value of SAR (measured) = 0.243 mW/g

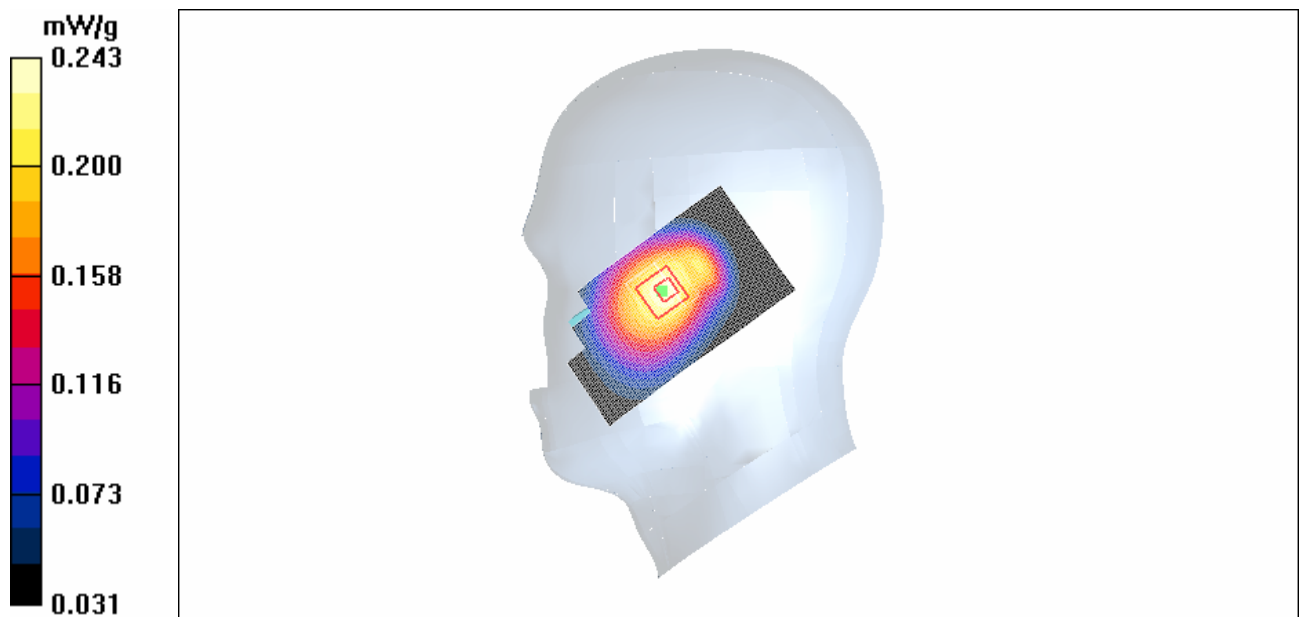


Figure 286 Right Hand Tilt 15° Close WCDMA Band V Channel 4132

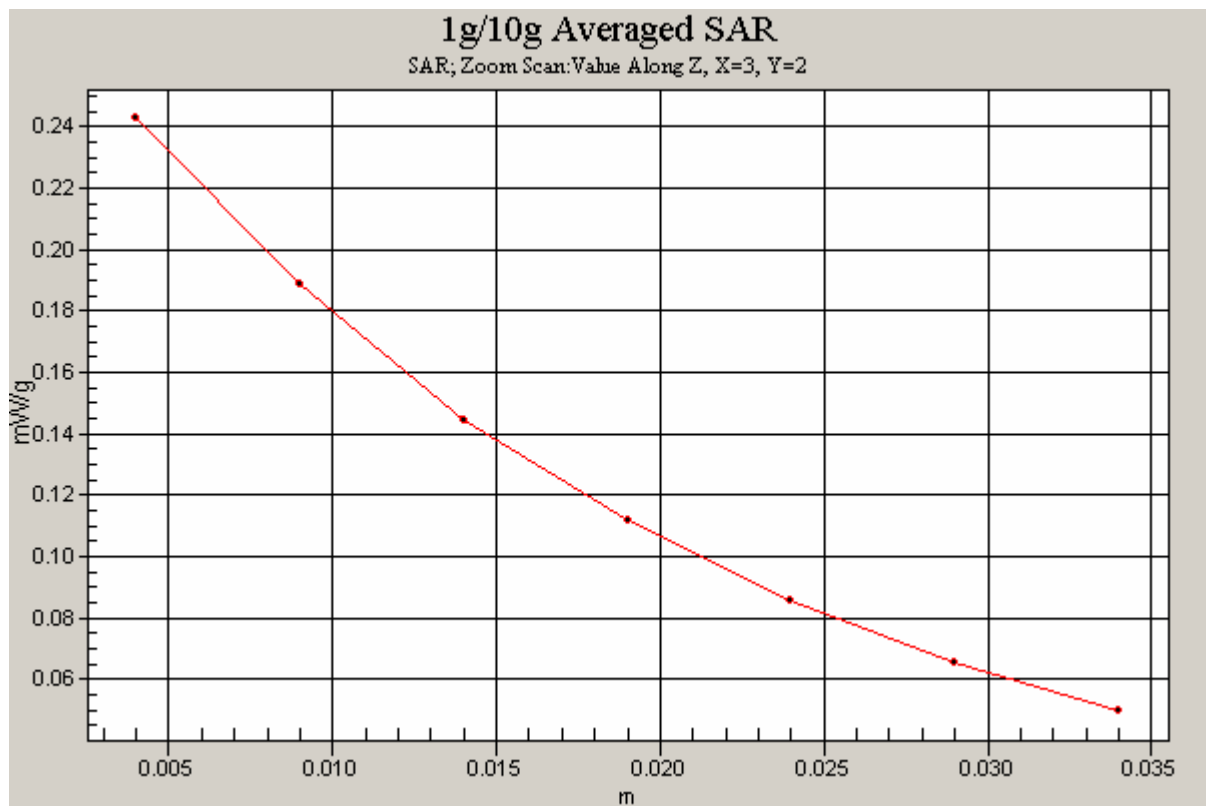


Figure 287 Z-Scan at power reference point (Right Hand Tilt 15° Close WCDMA Band V Channel 4132)

WCDMA Band V Towards Ground High Close

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

Medium parameters used: $f = 847$ MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.204 mW/g

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

Reference Value = 4.00 V/m; Power Drift = 0.174 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.179 mW/g; SAR(10 g) = 0.113 mW/g

Maximum value of SAR (measured) = 0.195 mW/g

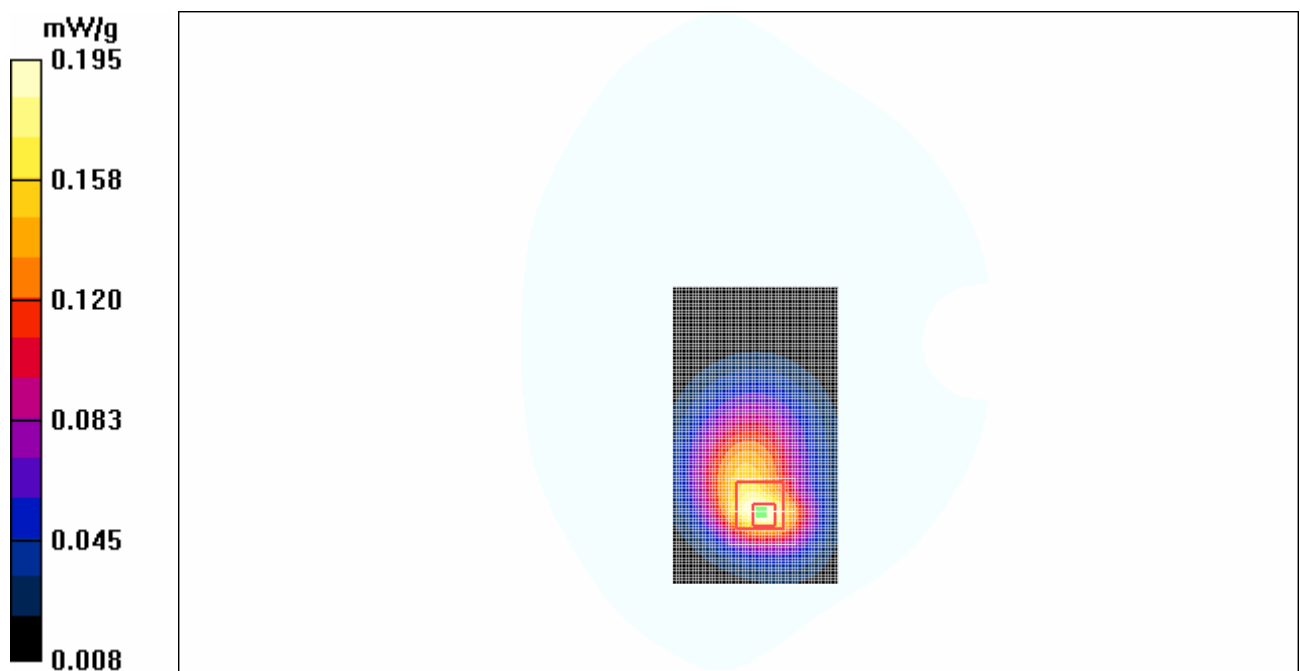


Figure 288 Body, Towards Ground, Close WCDMA Band V Channel 4233

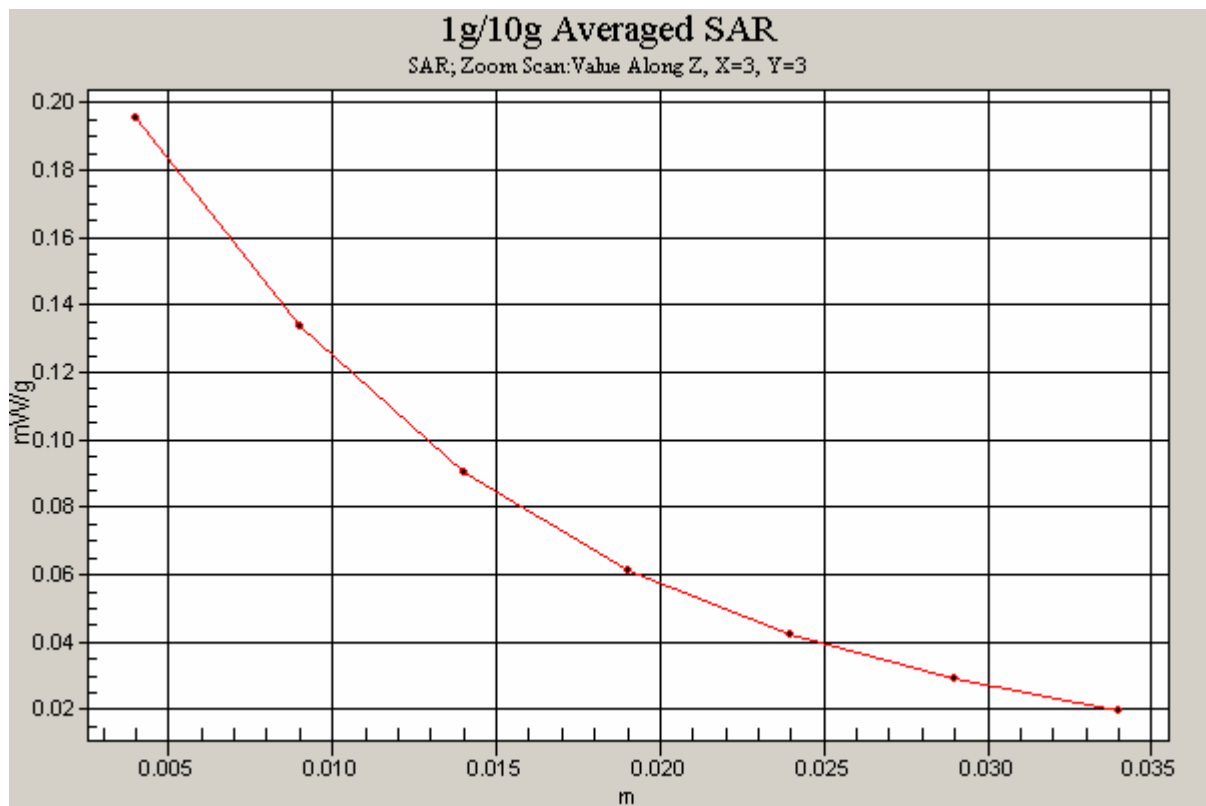


Figure 289 Z-Scan at power reference point (Body, Towards Ground, Close WCDMA Band V Channel 4233)

WCDMA Band V Towards Ground Middle Close

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Ground Middle/Area Scan (71x131x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 6.05 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.394 W/kg

SAR(1 g) = 0.260 mW/g; SAR(10 g) = 0.170 mW/g

Maximum value of SAR (measured) = 0.284 mW/g

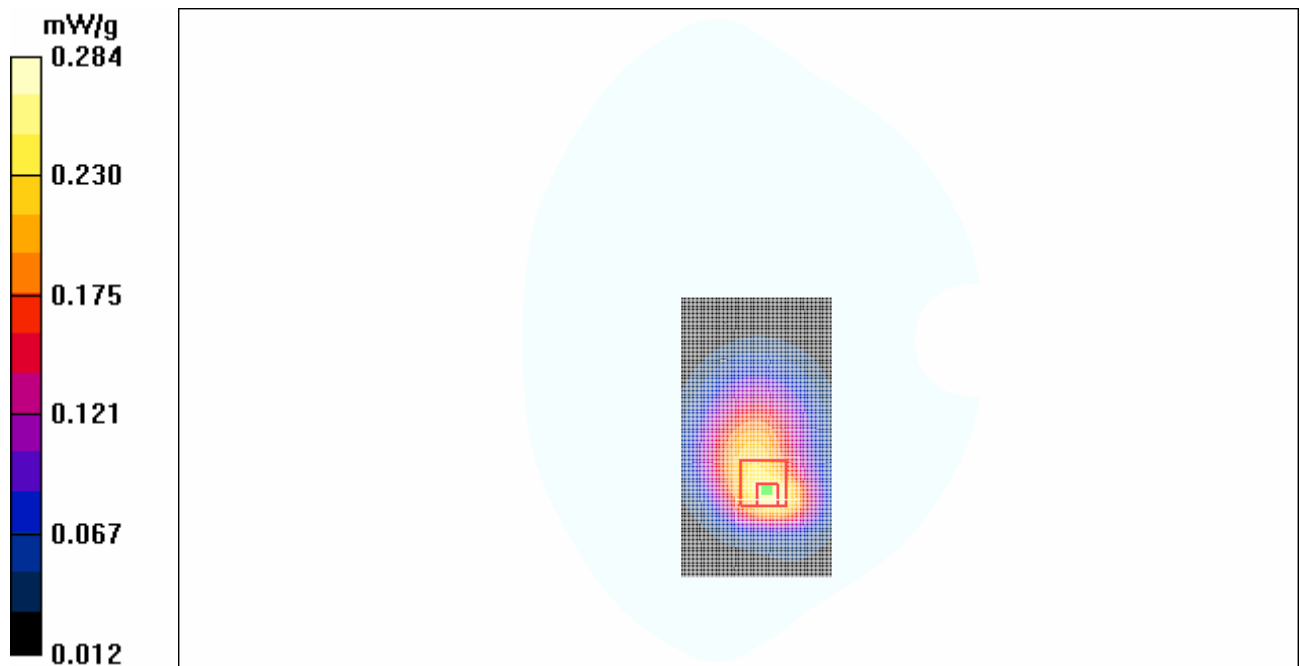


Figure 290 Body, Towards Ground, Close WCDMA Band V Channel 4182

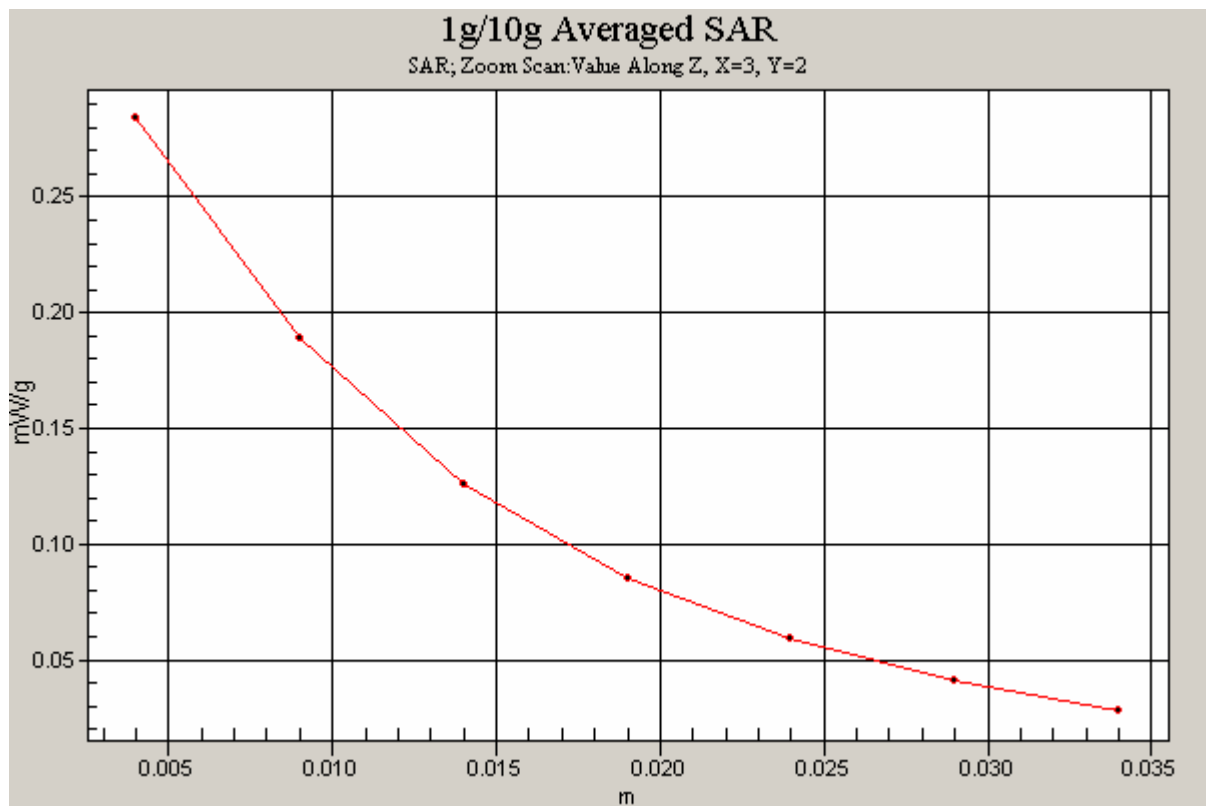


Figure 291 Z-Scan at power reference point (Body, Towards Ground, Close WCDMA Band V Channel 4182)

WCDMA Band V Towards Ground Low Close

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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 = 7.58 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.418 mW/g

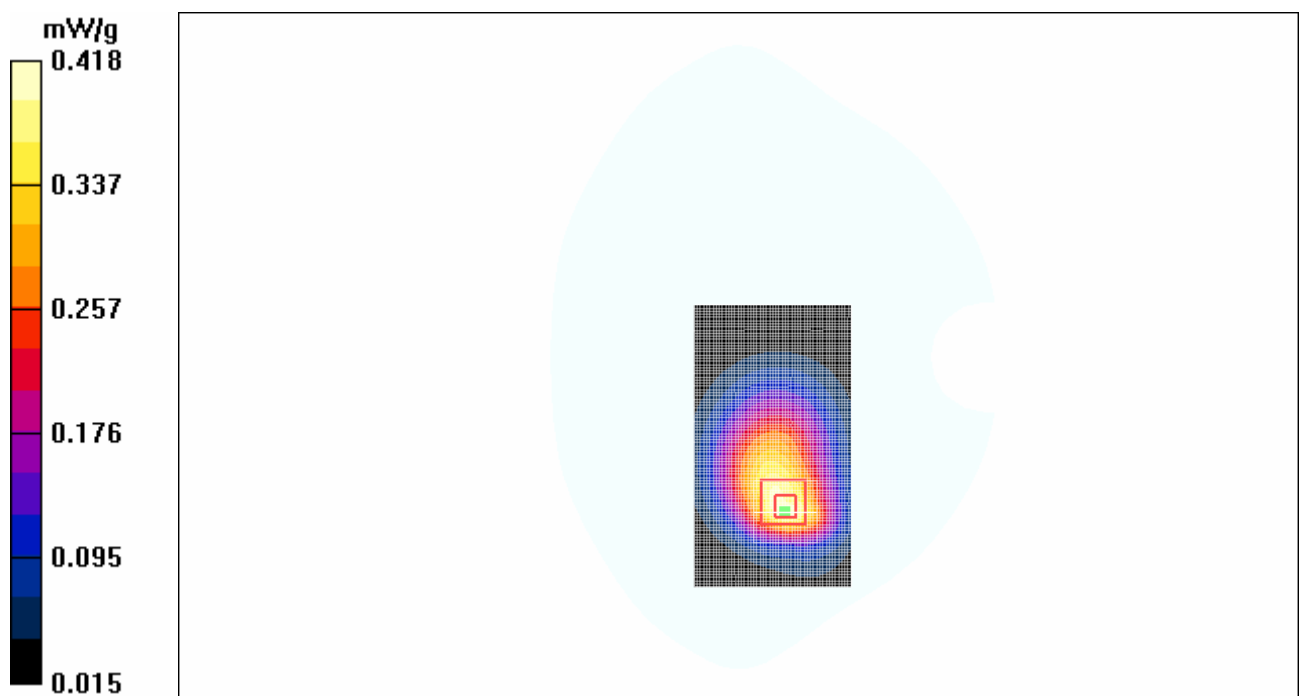


Figure 292 Body, Towards Ground, Close WCDMA Band V Channel 4132

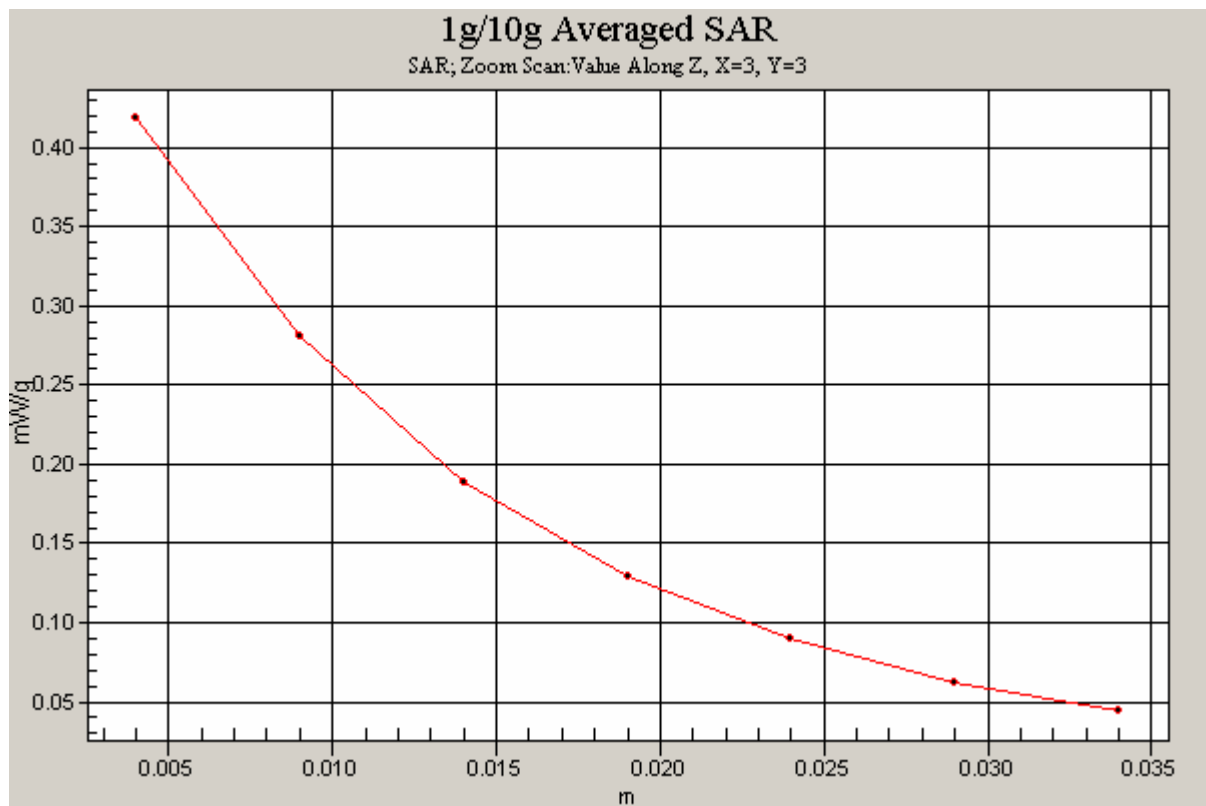


Figure 293 Z-Scan at power reference point (Body, Towards Ground, Close WCDMA Band V Channel 4132)

WCDMA Band V Towards Phantom High Close

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

Medium parameters used: $f = 847$ MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

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

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

Reference Value = 3.20 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 0.066 W/kg

SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.040 mW/g

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

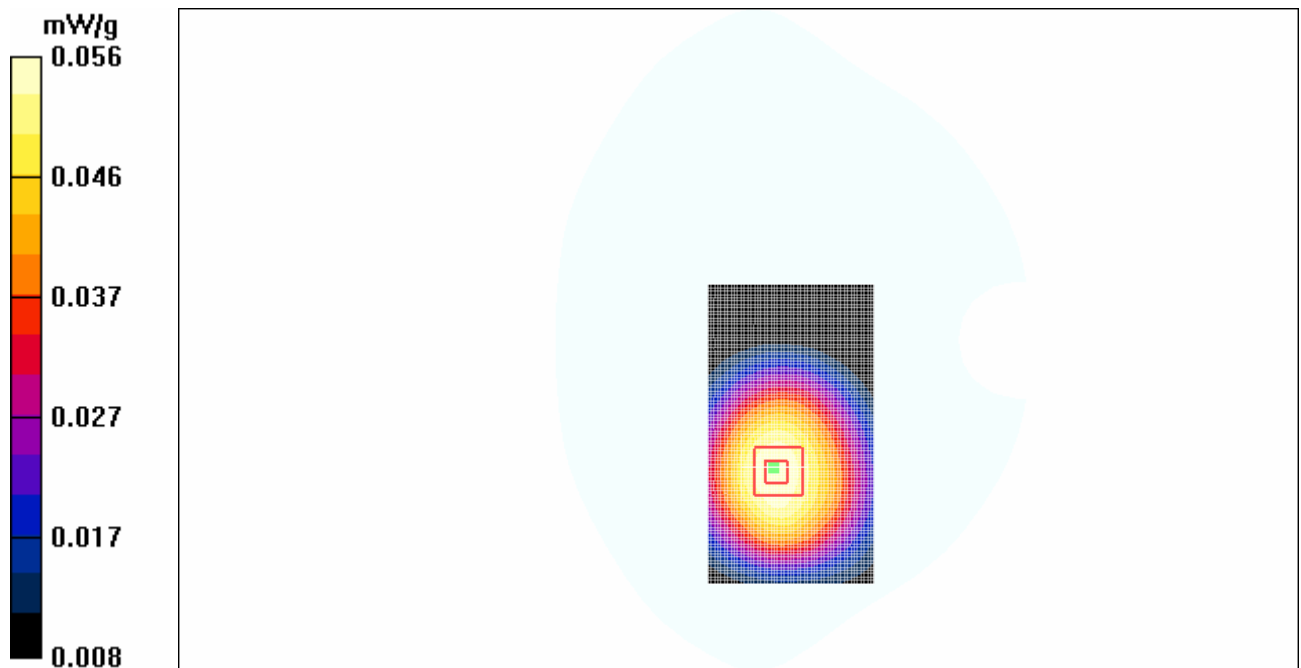


Figure 294 Body, Towards Phantom, Close WCDMA Band V Channel 4233

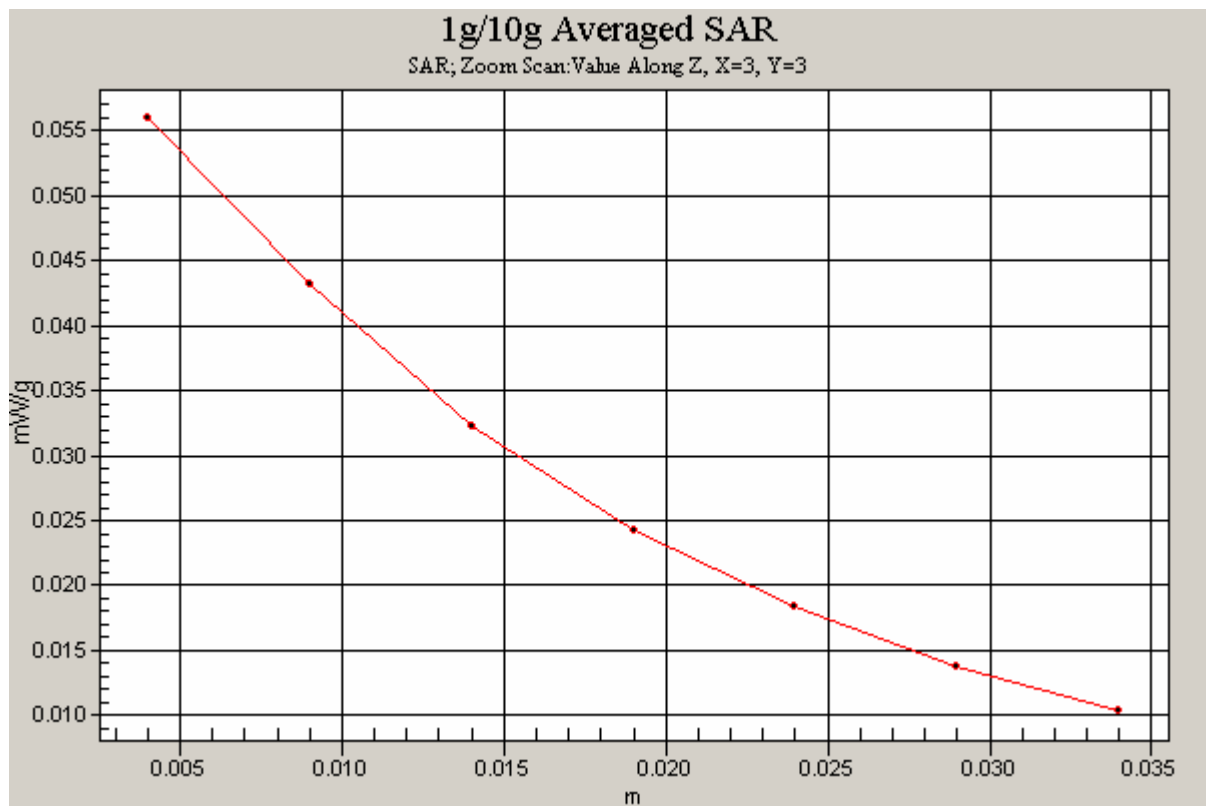


Figure 295 Z-Scan at power reference point (Body, Towards Phantom, Close WCDMA Band V Channel 4233)

WCDMA Band V Towards Phantom Middle Close

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.087 mW/g

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

Reference Value = 4.06 V/m; Power Drift = 0.277 dB

Peak SAR (extrapolated) = 0.111 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.065 mW/g

Maximum value of SAR (measured) = 0.093 mW/g

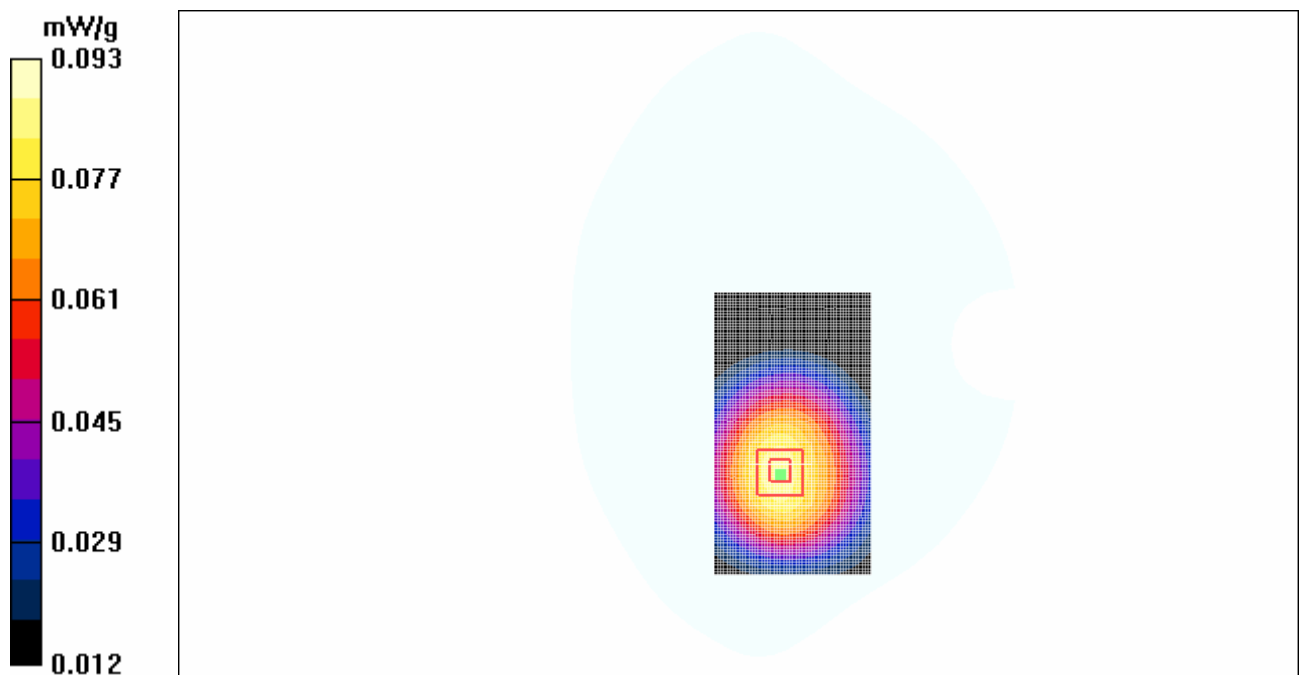


Figure 296 Body, Towards Phantom, Close WCDMA Band V Channel 4182

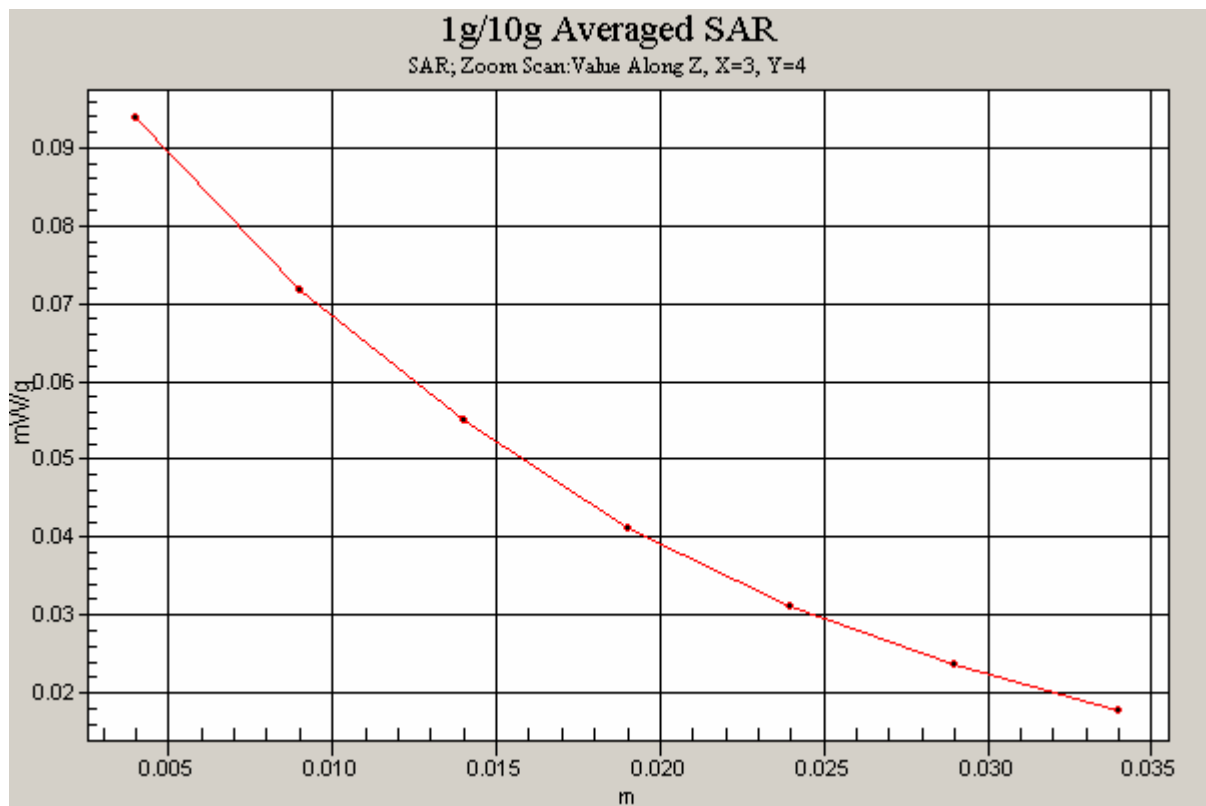


Figure 297 Z-Scan at power reference point (Body, Towards Phantom, Close WCDMA Band V Channel 4182)

WCDMA Band V Towards Phantom Low Close

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

Maximum value of SAR (interpolated) = 0.137 mW/g

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

Reference Value = 5.02 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.163 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.097 mW/g

Maximum value of SAR (measured) = 0.138 mW/g

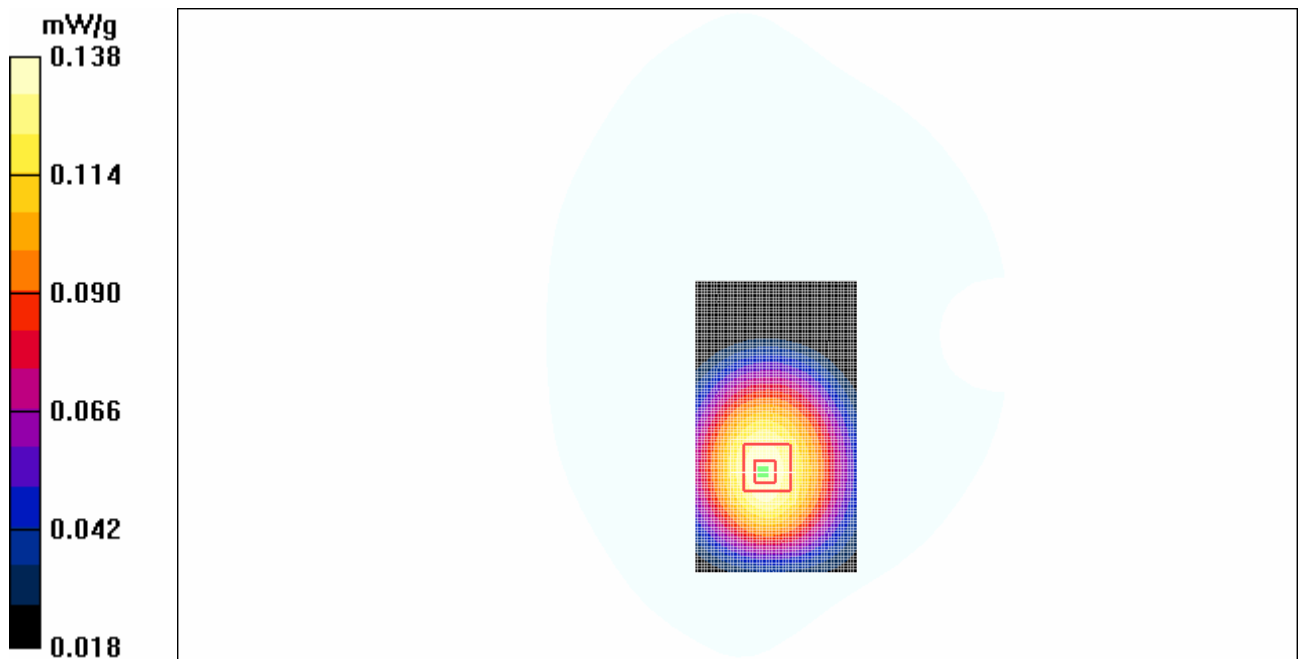


Figure 298 Body, Towards Phantom, Close WCDMA Band V Channel 4132

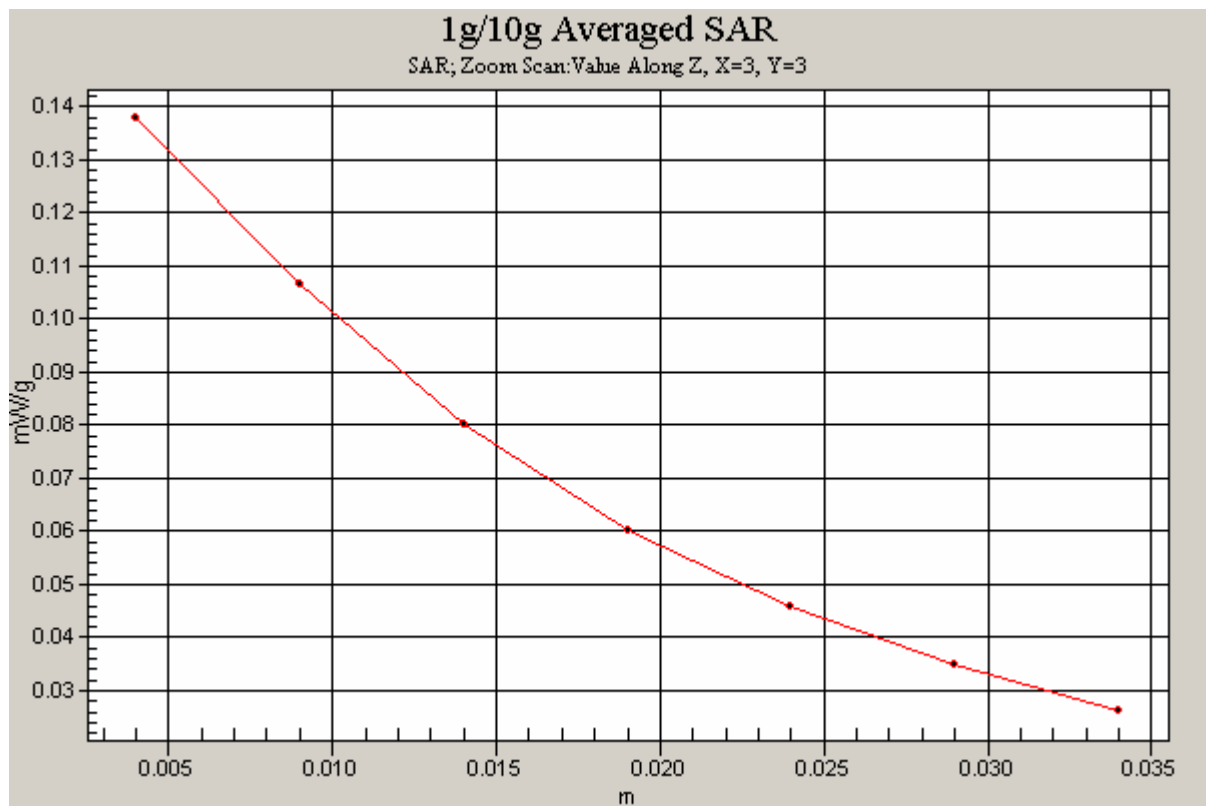


Figure 299 Z-Scan at power reference point (Body, Towards Phantom, Close WCDMA Band V Channel 4132)

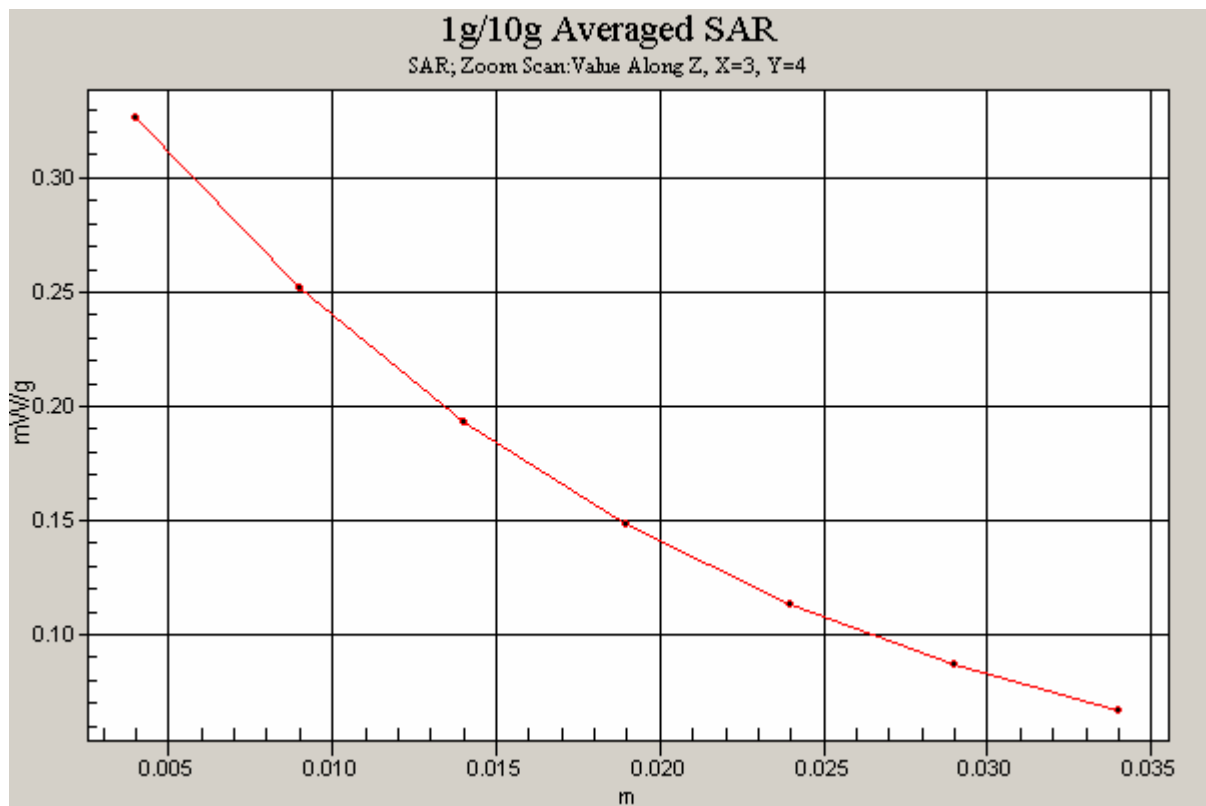


Figure 235 Z-Scan at power reference point (Left Hand Tilt 15° Open WCDMA Band V Channel 4132)

WCDMA Band V Right Cheek High Open

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

Medium parameters used: $f = 847$ MHz; $\sigma = 0.947$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Cheek High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.899 mW/g

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

Reference Value = 11.7 V/m; Power Drift = 0.001 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.880 mW/g; SAR(10 g) = 0.601 mW/g

Maximum value of SAR (measured) = 0.953 mW/g

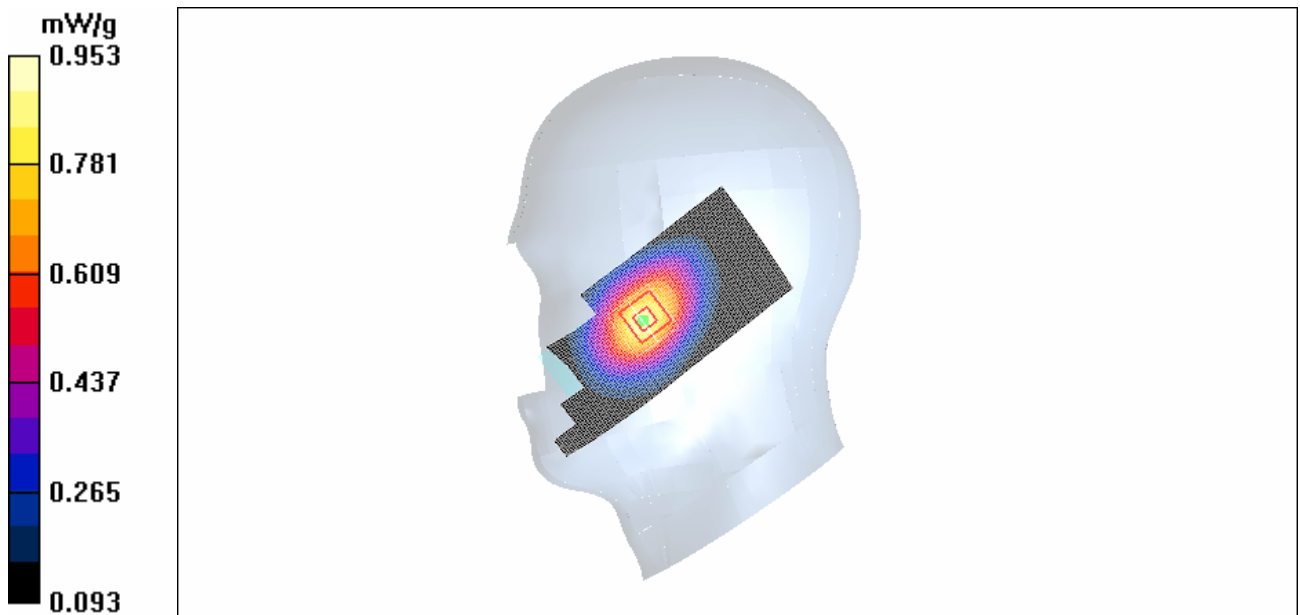


Figure 236 Right Hand Touch Cheek Open WCDMA Band V Channel 4233

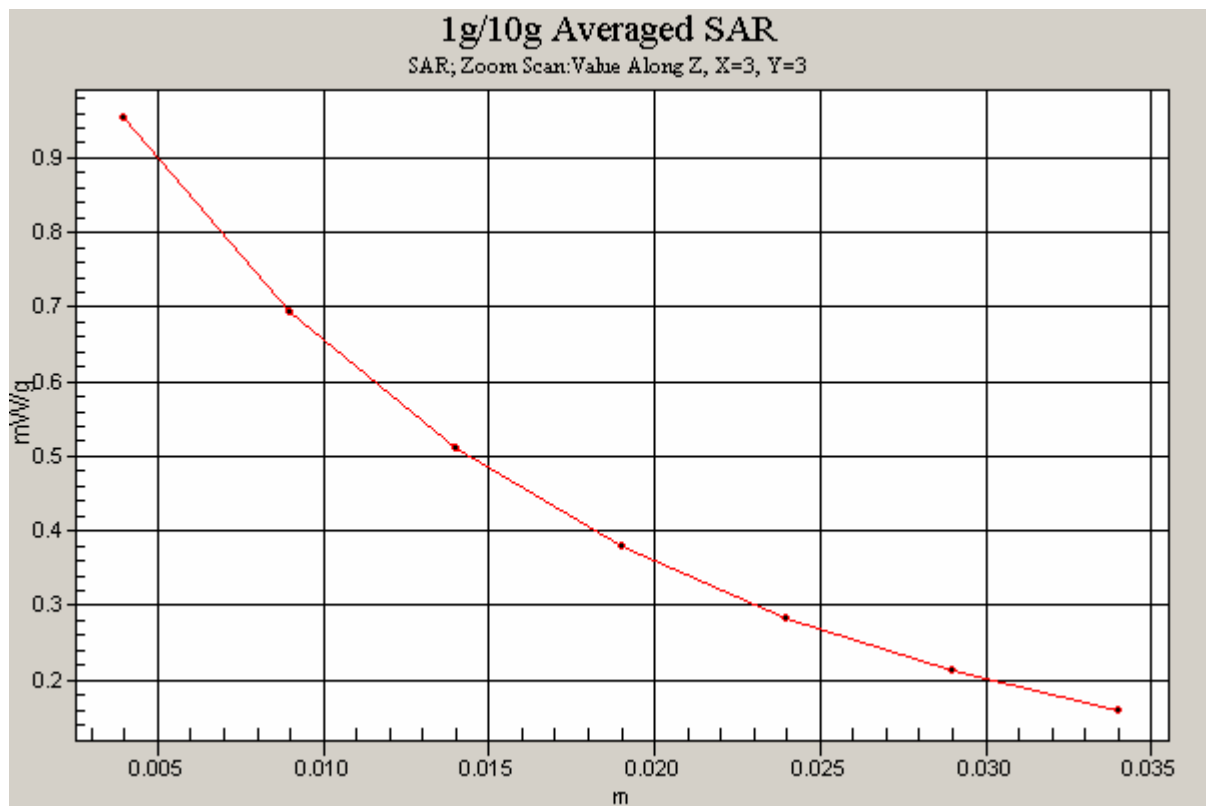


Figure 237 Z-Scan at power reference point (Right Hand Touch Cheek Open WCDMA Band V Channel 4233)

WCDMA Band V Right Cheek Middle Open

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.936$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Cheek Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.884 mW/g

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

Reference Value = 11.7 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.856 mW/g; SAR(10 g) = 0.590 mW/g

Maximum value of SAR (measured) = 0.927 mW/g

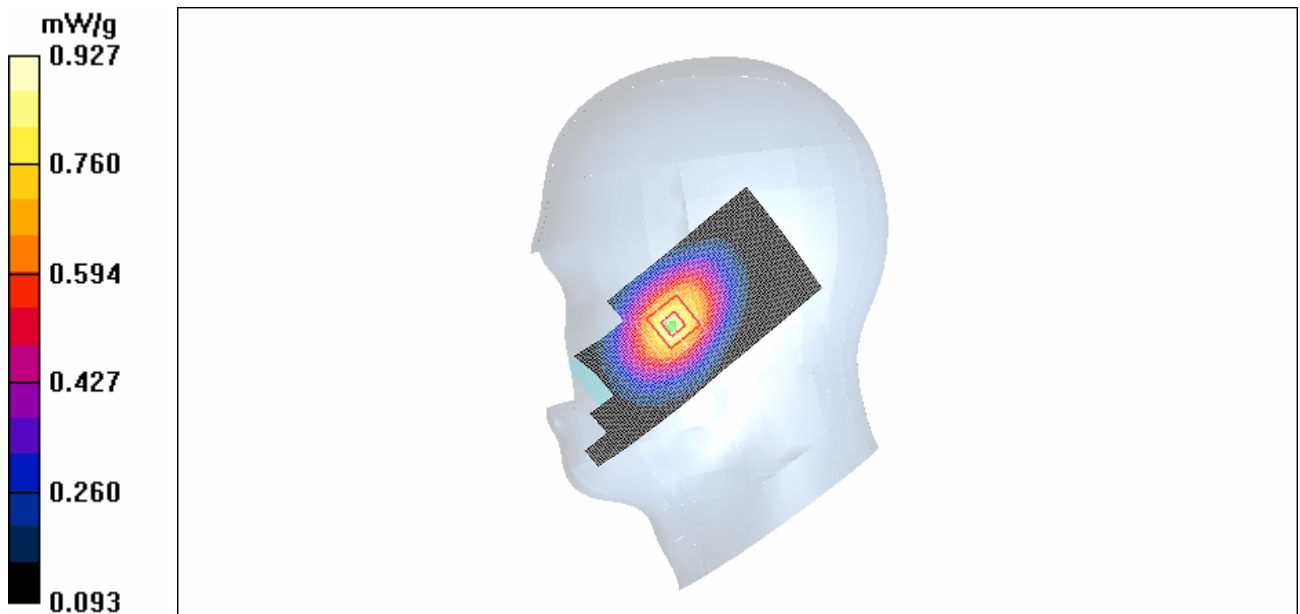


Figure 238 Right Hand Touch Cheek Open WCDMA Band V Channel 4182

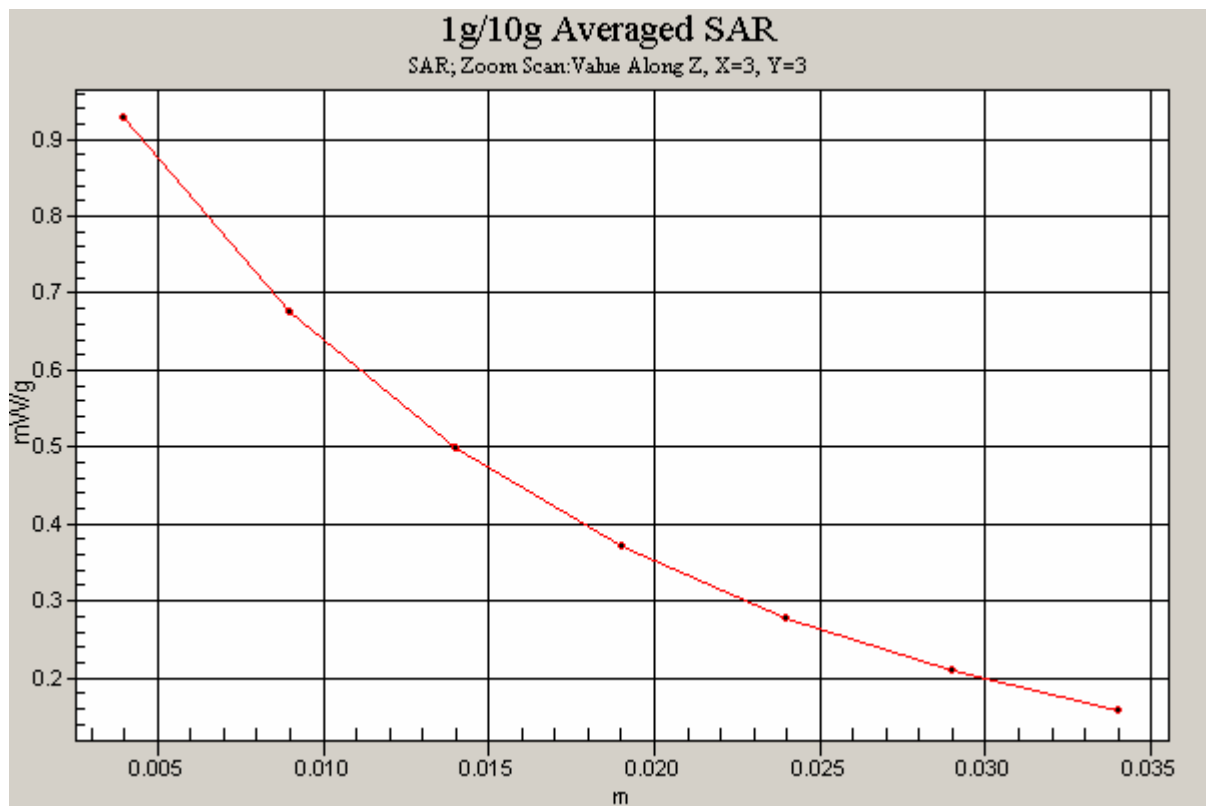


Figure 239 Z-Scan at power reference point (Right Hand Touch Cheek Open WCDMA Band V Channel 4182)

WCDMA Band V Right Cheek Low Open

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Cheek Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.654 mW/g

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

Reference Value = 10.3 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.877 W/kg

SAR(1 g) = 0.636 mW/g; SAR(10 g) = 0.439 mW/g

Maximum value of SAR (measured) = 0.689 mW/g

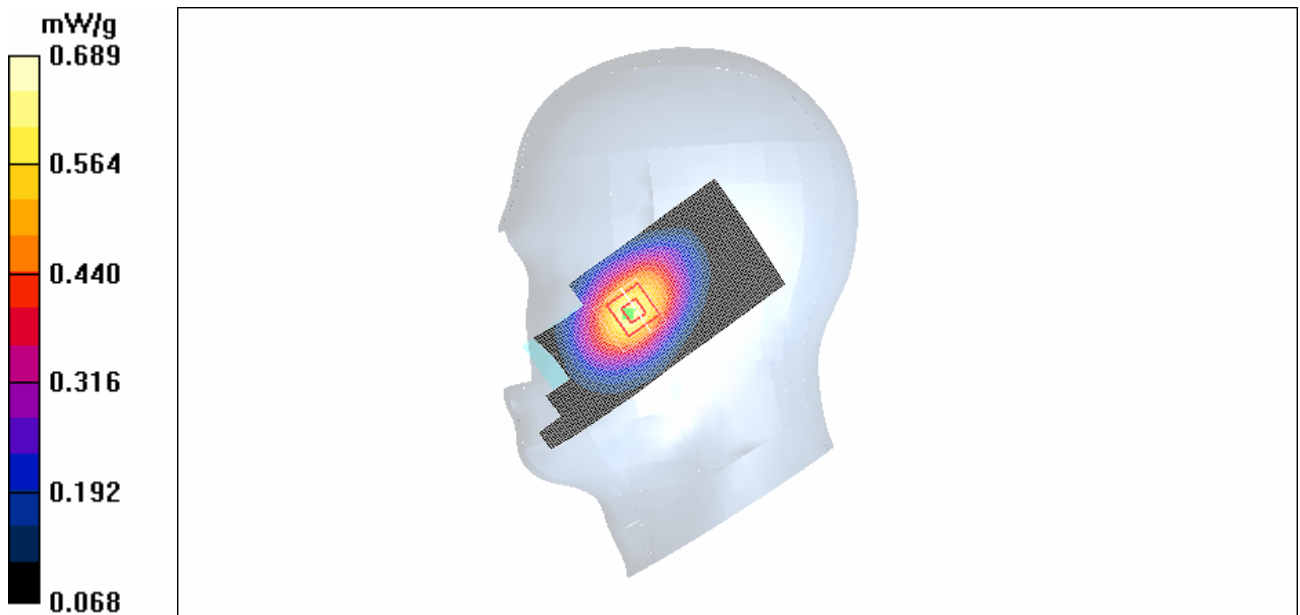


Figure 240 Right Hand Touch Cheek Open WCDMA Band V Channel 4132

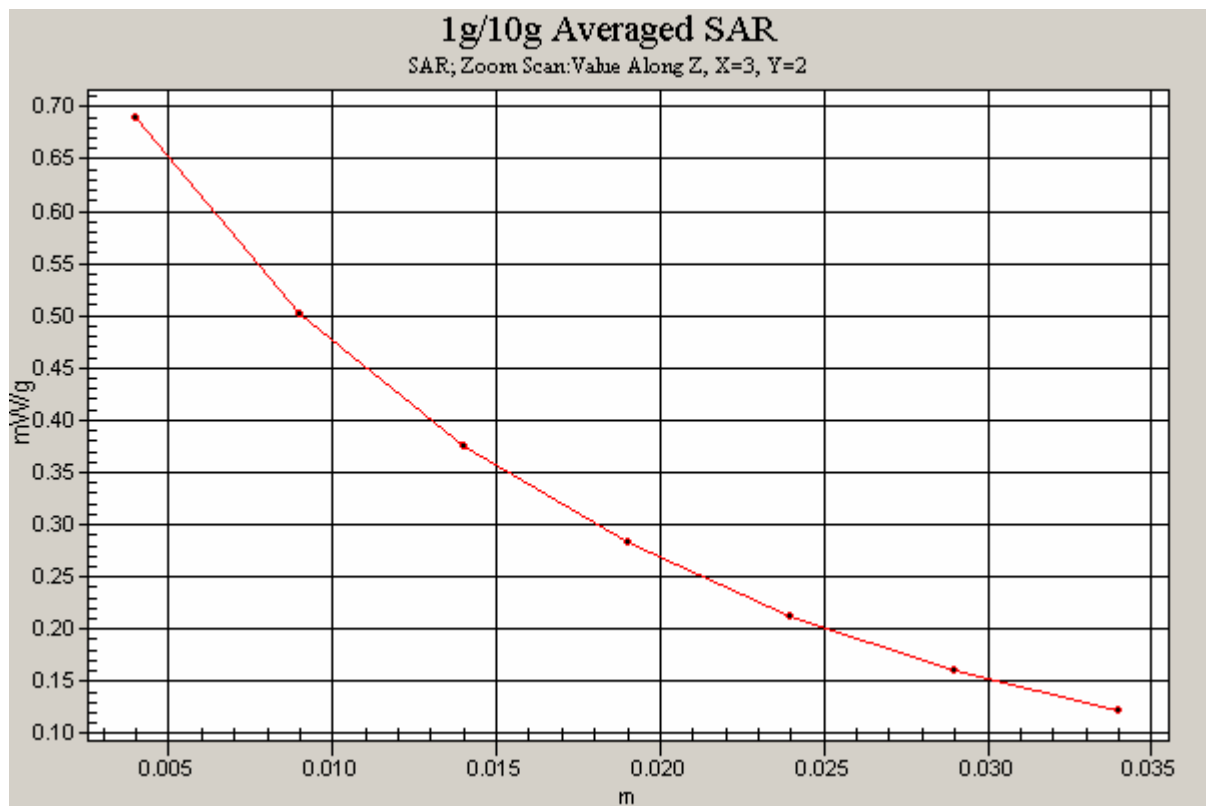


Figure 241 Z-Scan at power reference point (Right Hand Touch Cheek Open WCDMA Band V
Channel 4132)

WCDMA Band V Right Tilt High Open

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.947$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;

Tilt High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.487 mW/g

Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.7 V/m; Power Drift = -0.116 dB
Peak SAR (extrapolated) = 0.587 W/kg
SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.333 mW/g
Maximum value of SAR (measured) = 0.488 mW/g



Figure 242 Right Hand Tilt 15° Open WCDMA Band V Channel 4233

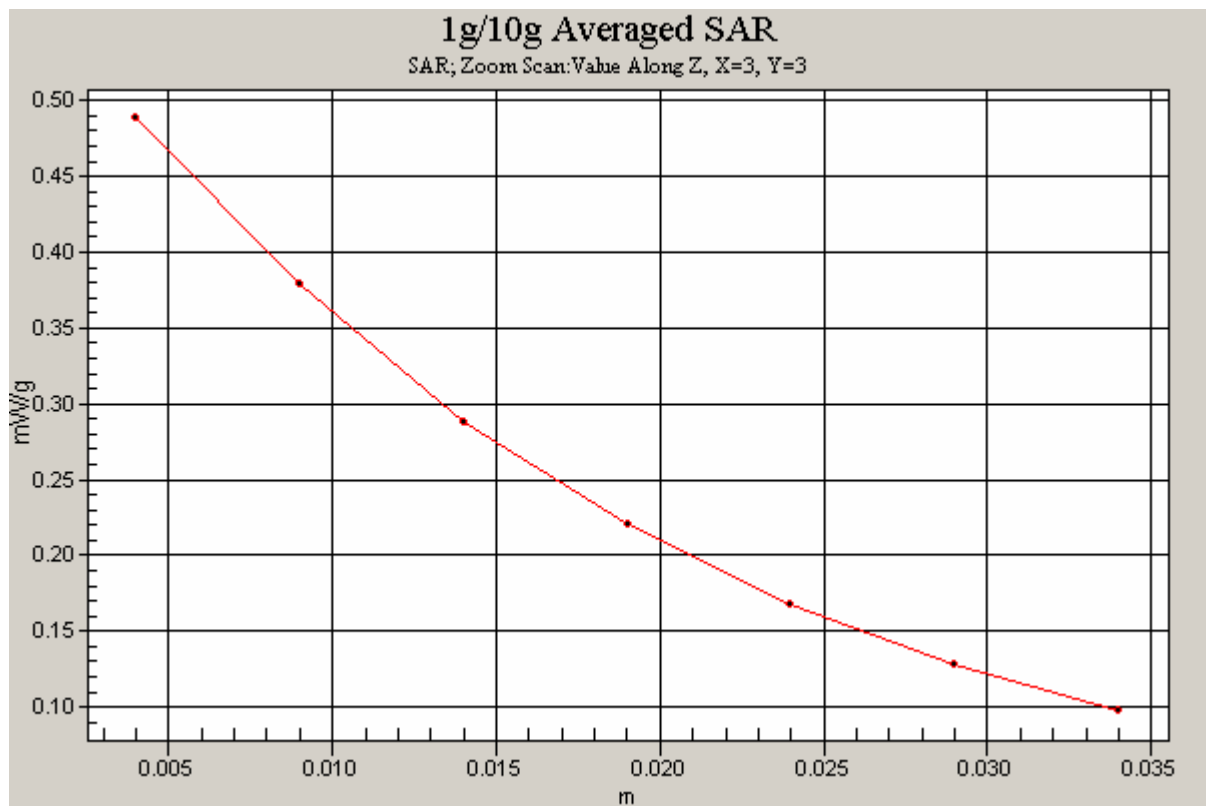


Figure 243 Z-Scan at power reference point (Right Hand Tilt 15° Open WCDMA Band V Channel 4233)

WCDMA Band V Right Tilt Middle Open

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.936$ mho/m; $\epsilon_r = 42.9$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Tilt Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 17.1 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.319 mW/g

Maximum value of SAR (measured) = 0.466 mW/g

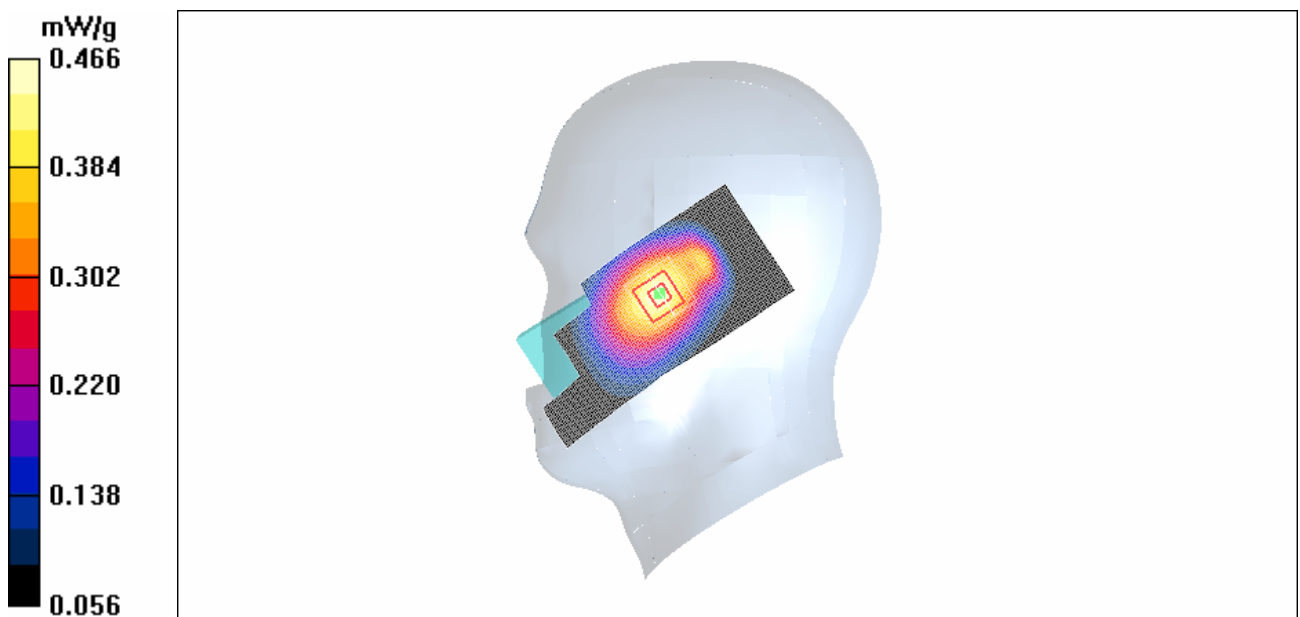


Figure 244 Right Hand Tilt 15° Open WCDMA Band V Channel 4182

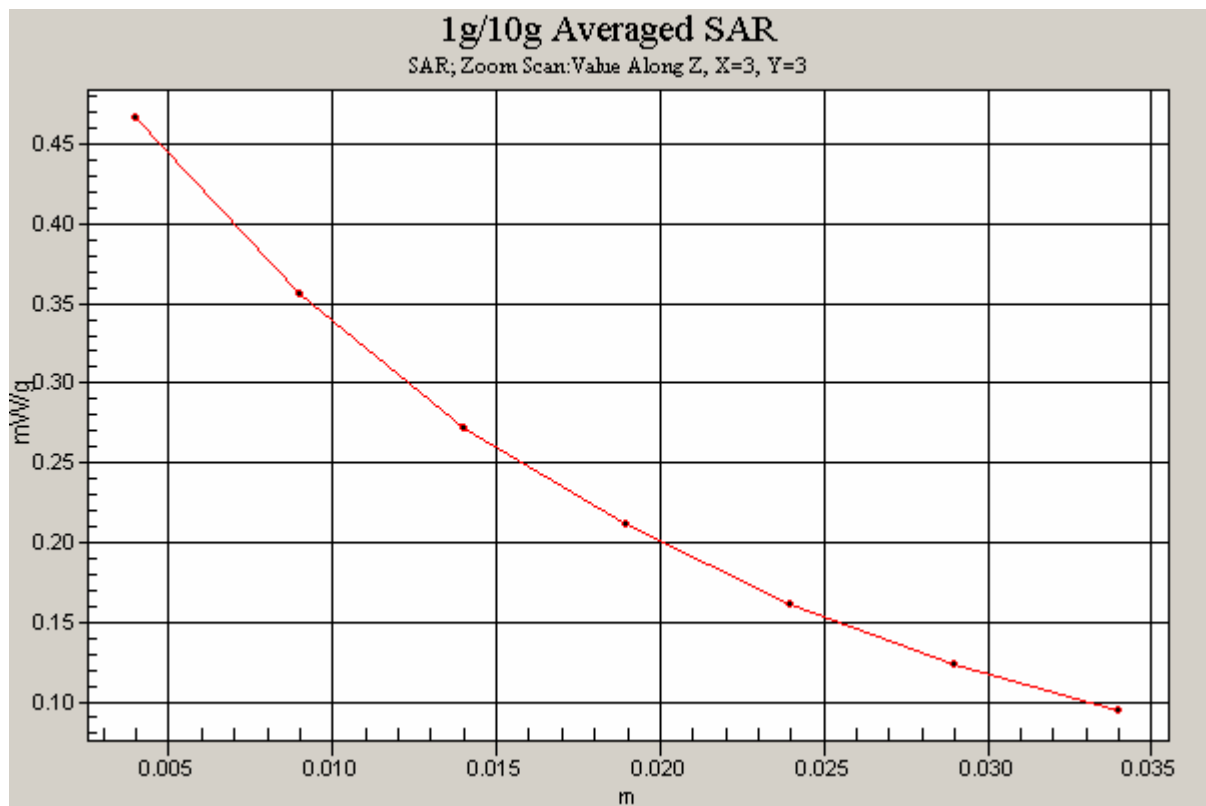


Figure 245 Z-Scan at power reference point (Right Hand Tilt 15° Open WCDMA Band V Channel 4182)

WCDMA Band V Right Tilt Low Open

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.923$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Tilt Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 14.6 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.400 W/kg

SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.336 mW/g

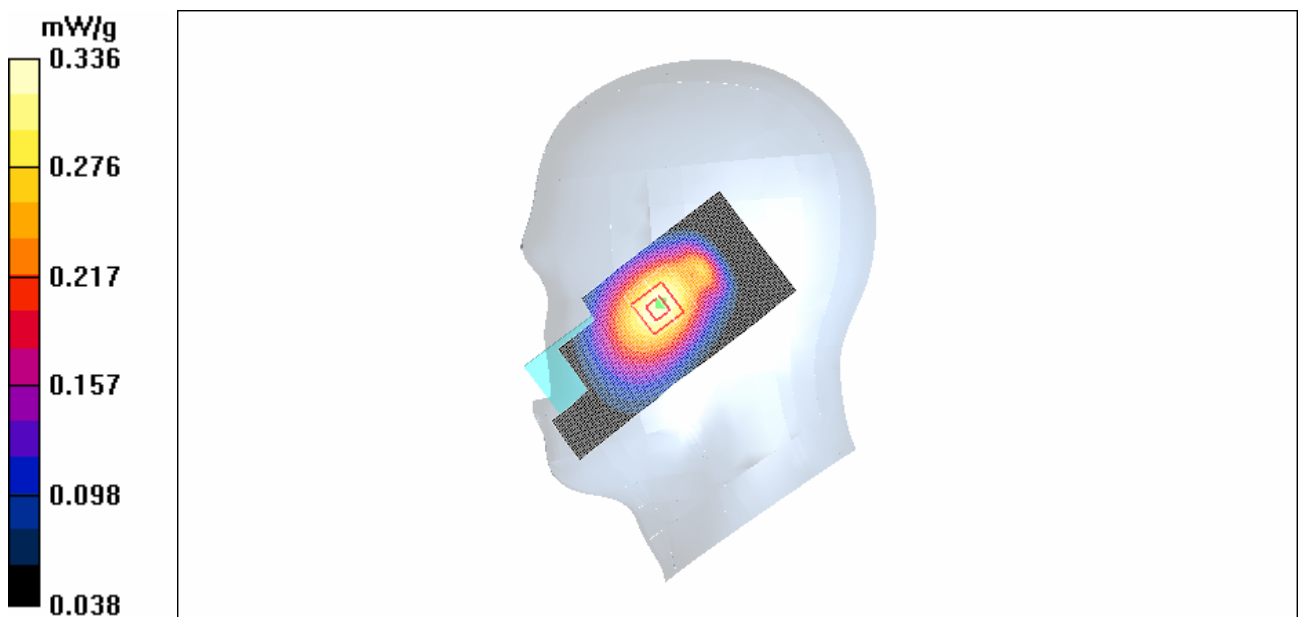


Figure 246 Right Hand Tilt 15° Open WCDMA Band V Channel 4132

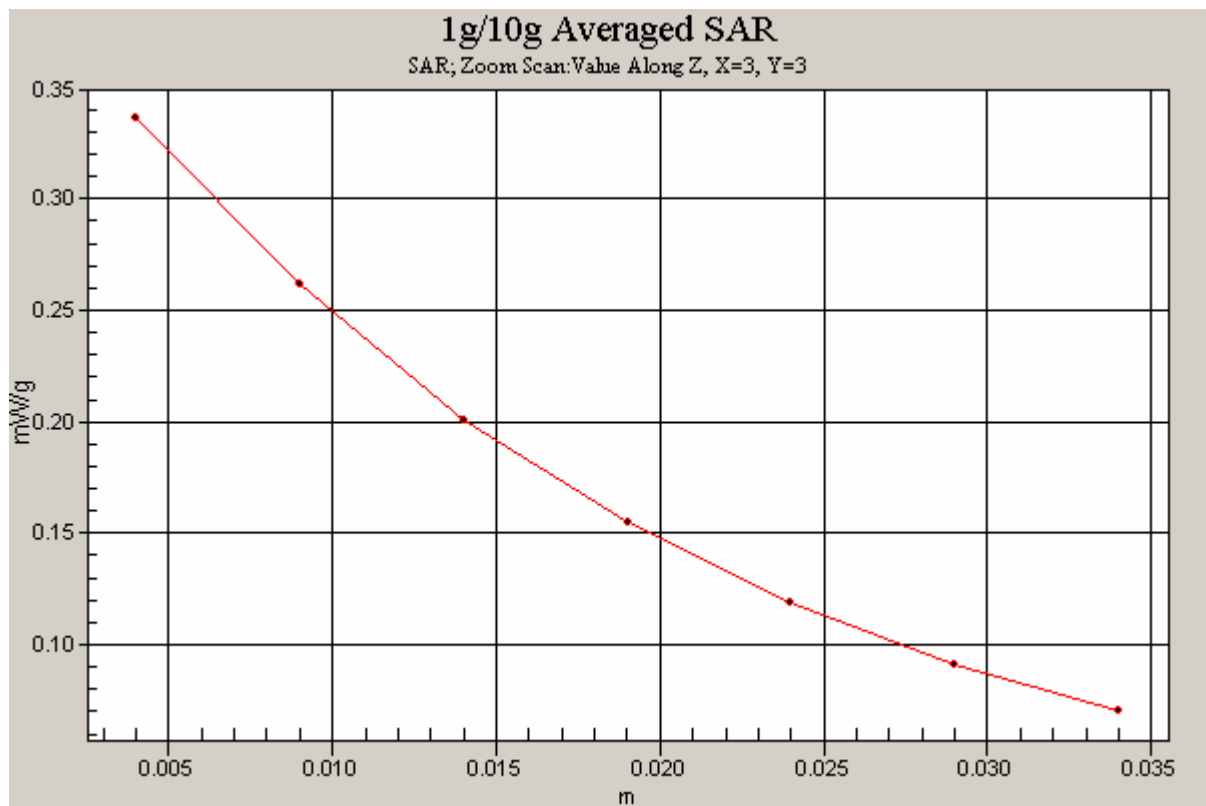


Figure 247 Z-Scan at power reference point (Right Hand Tilt 15° Open WCDMA Band V Channel 4132)

WCDMA Band V Towards Ground High Open

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

Medium parameters used: $f = 847$ MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Ground High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.498 mW/g

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

Reference Value = 13.3 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.579 W/kg

SAR(1 g) = 0.465 mW/g; SAR(10 g) = 0.337 mW/g

Maximum value of SAR (measured) = 0.491 mW/g

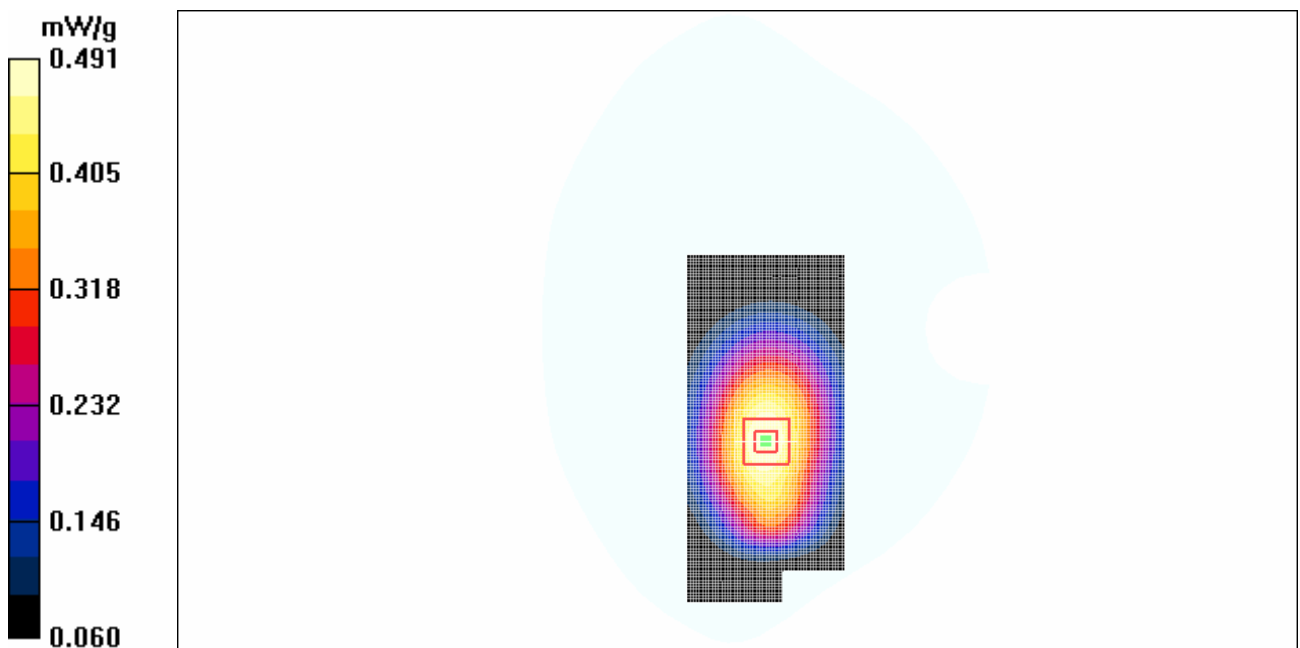


Figure 248 Body, Towards Ground, Open WCDMA Band V Channel 4233

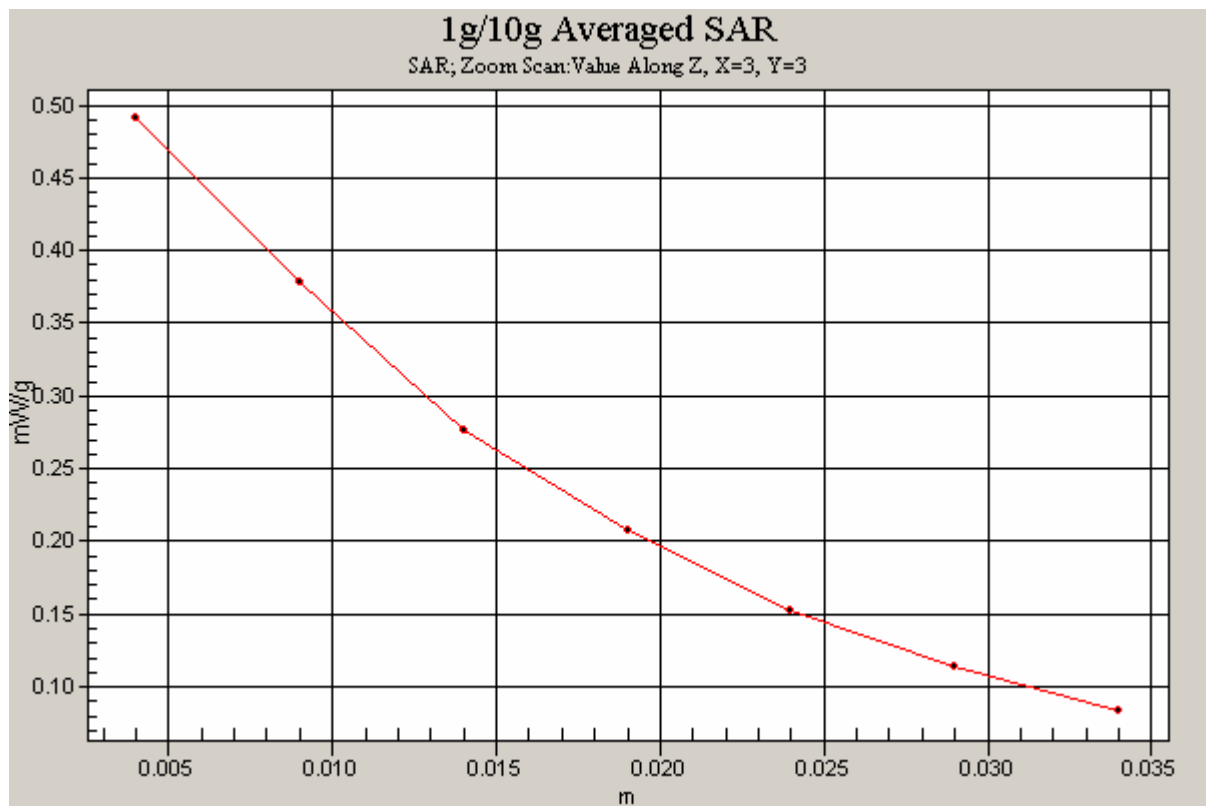


Figure 249 Z-Scan at power reference point (Body, Towards Ground, Open WCDMA Band V Channel 4233)

WCDMA Band V Towards Ground Middle Open

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Ground Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 14.1 V/m; Power Drift = 0.132 dB

Peak SAR (extrapolated) = 0.694 W/kg

SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.400 mW/g

Maximum value of SAR (measured) = 0.586 mW/g

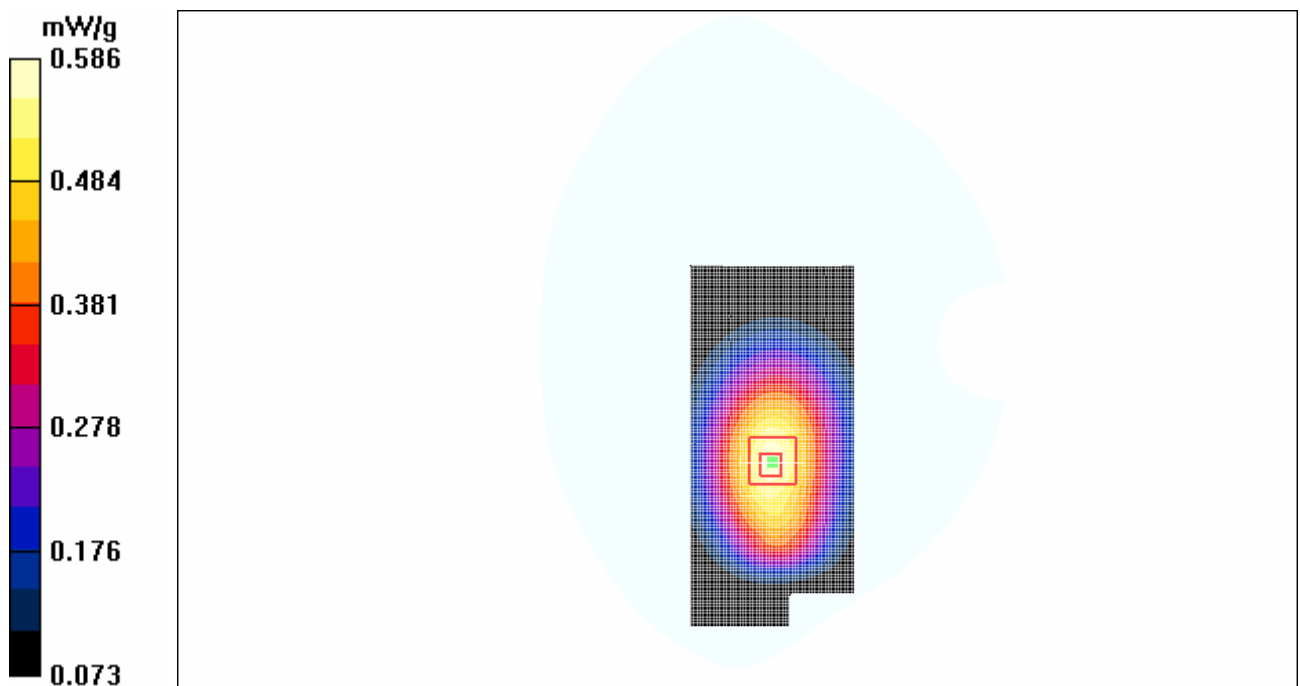


Figure 250 Body, Towards Ground, Open WCDMA Band V Channel 4182

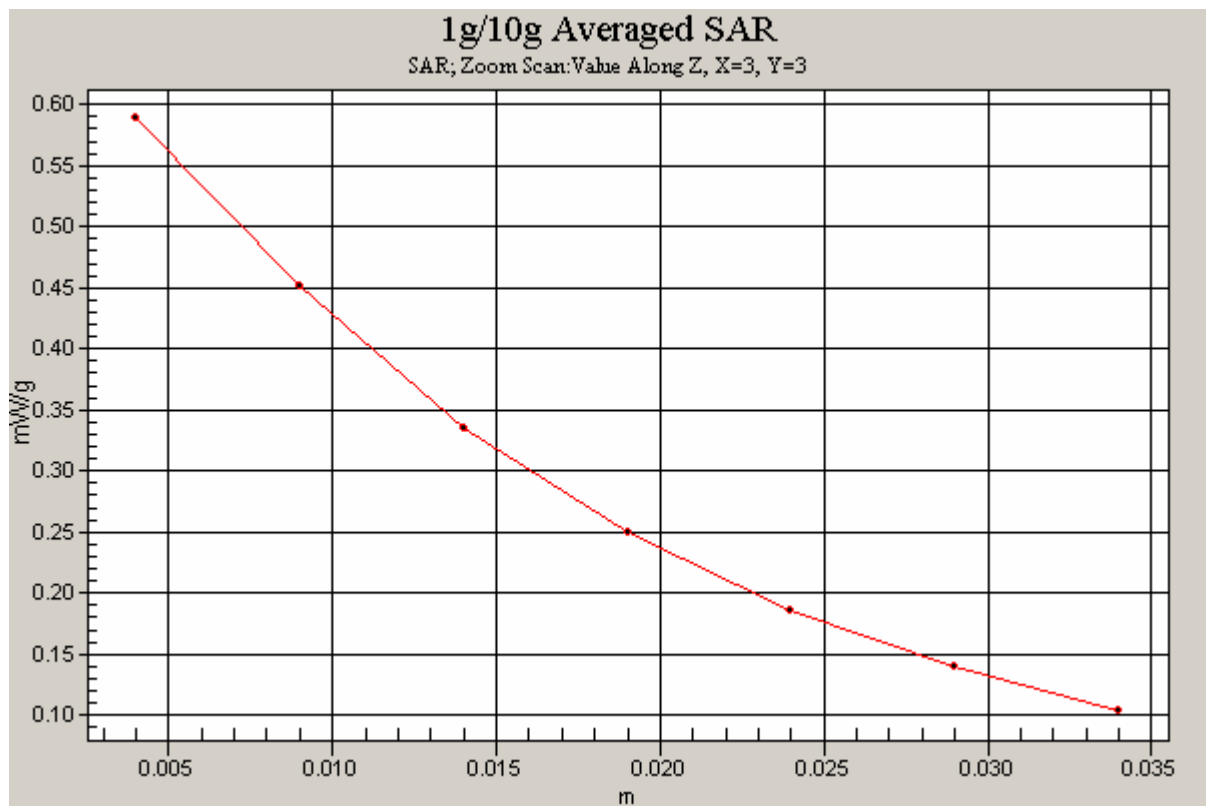


Figure 251 Z-Scan at power reference point (Body, Towards Ground, Open WCDMA Band V Channel 4182)

WCDMA Band V Towards Ground Low Open

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Ground Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.567 mW/g

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

Reference Value = 12.7 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.388 mW/g

Maximum value of SAR (measured) = 0.561 mW/g

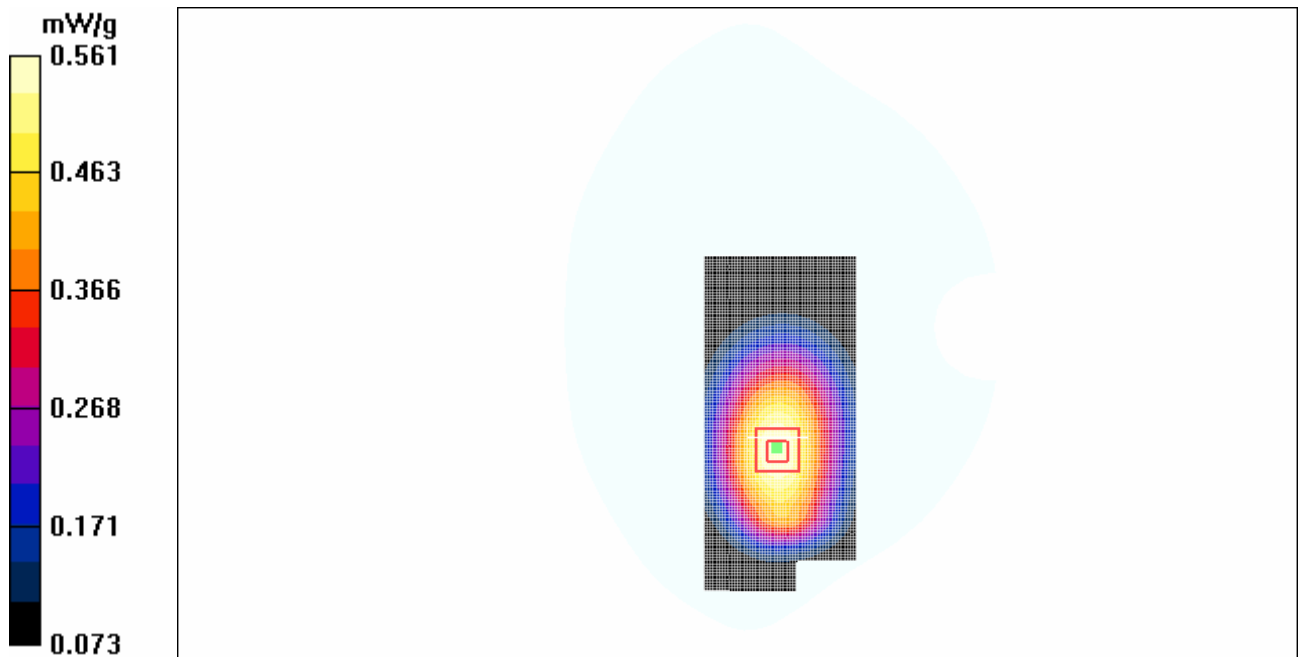


Figure 252 Body, Towards Ground, Open WCDMA Band V Channel 4132

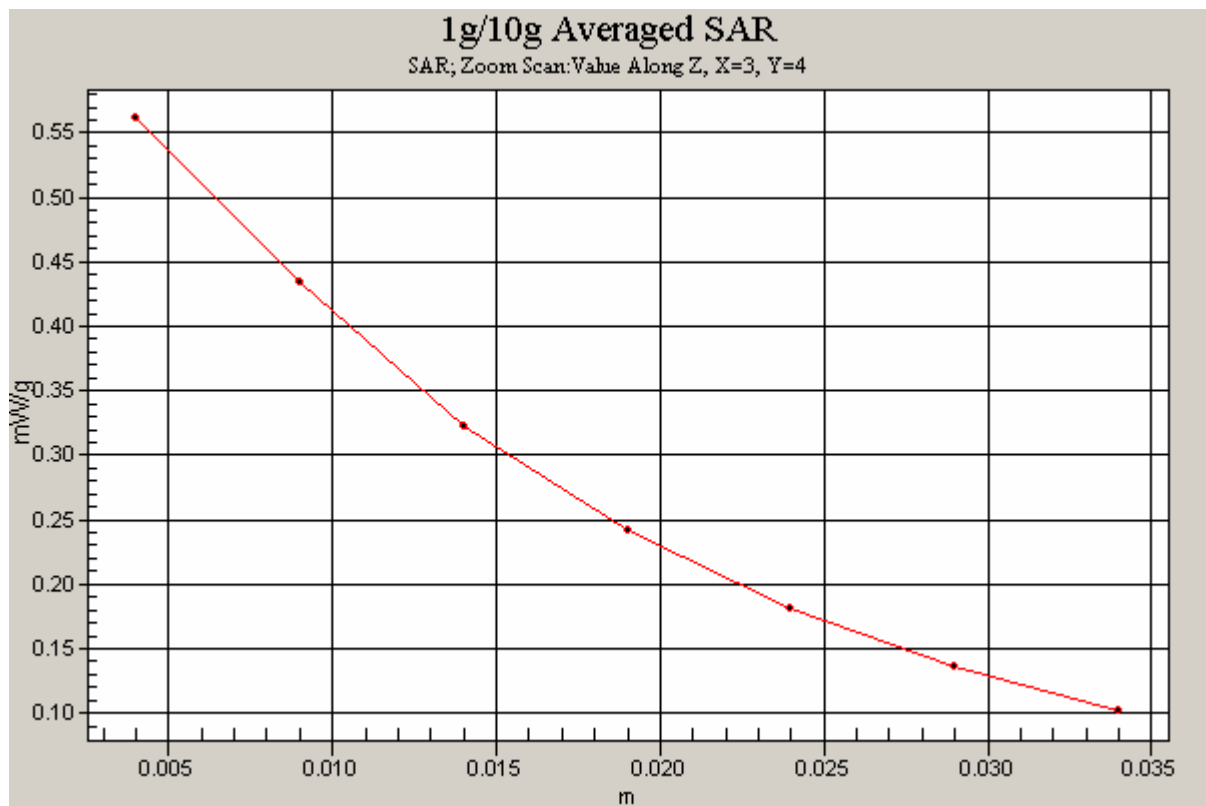


Figure 253 Z-Scan at power reference point (Body, Towards Ground, Open WCDMA Band V Channel 4132)

WCDMA Band V Towards Phantom High Open

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

Medium parameters used: $f = 847$ MHz; $\sigma = 1.03$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Phantom High/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.518 mW/g

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

Reference Value = 13.4 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.611 W/kg

SAR(1 g) = 0.490 mW/g; SAR(10 g) = 0.357 mW/g

Maximum value of SAR (measured) = 0.523 mW/g

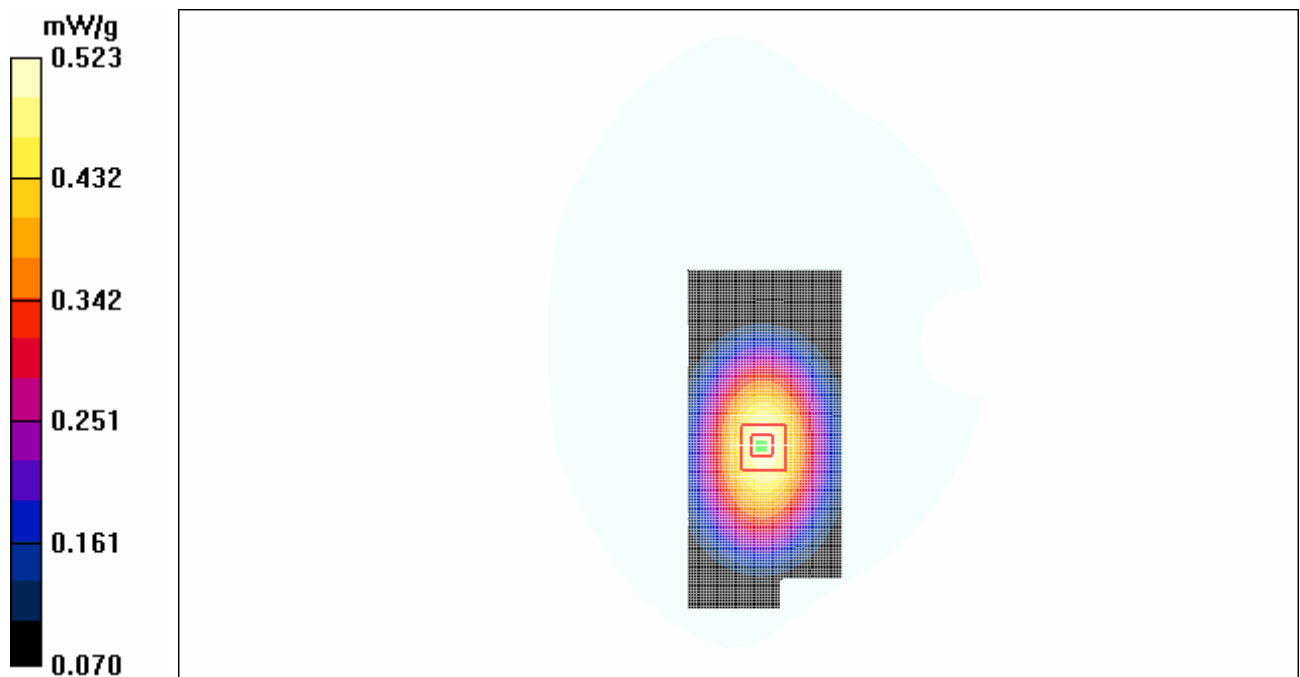


Figure 254 Body, Towards Phantom, Open WCDMA Band V Channel 4233

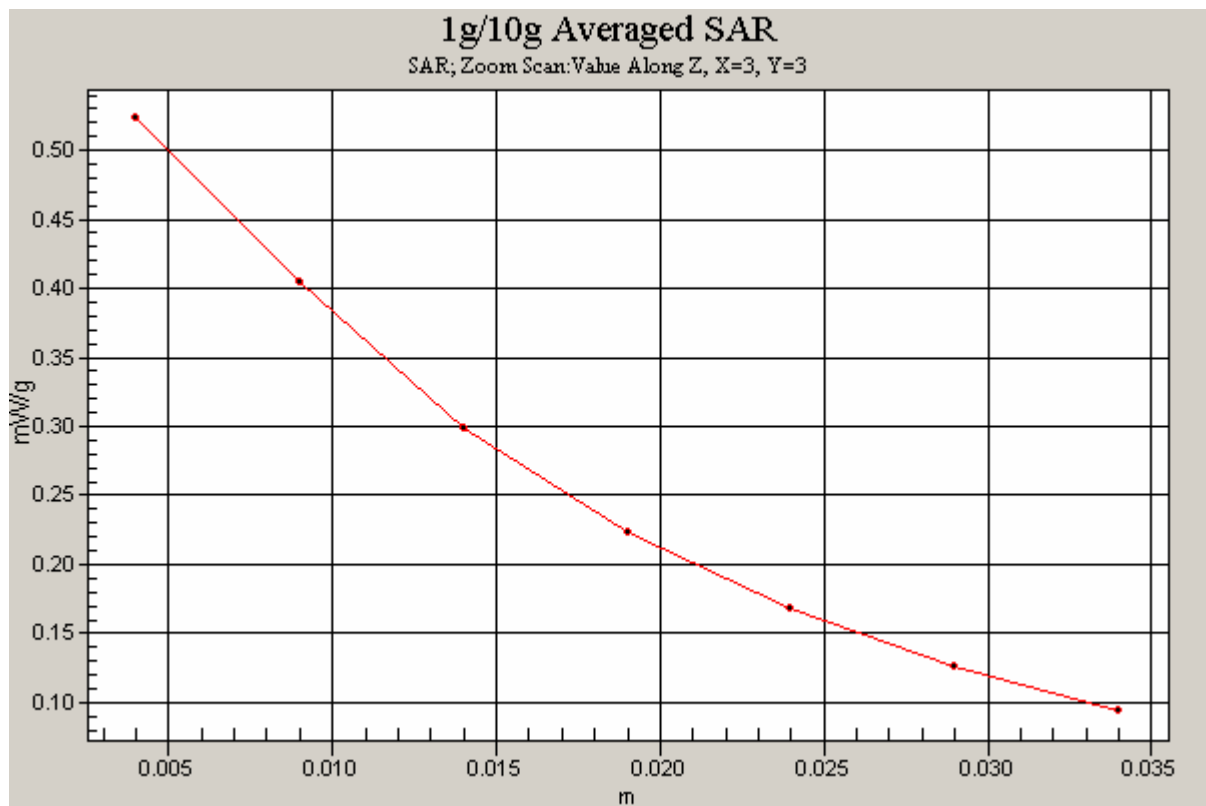


Figure 255 Z-Scan at power reference point (Body, Towards Phantom, Open WCDMA Band V Channel 4233)

WCDMA Band V Towards Phantom Middle Open

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Phantom Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 14.3 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.701 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.410 mW/g

Maximum value of SAR (measured) = 0.598 mW/g

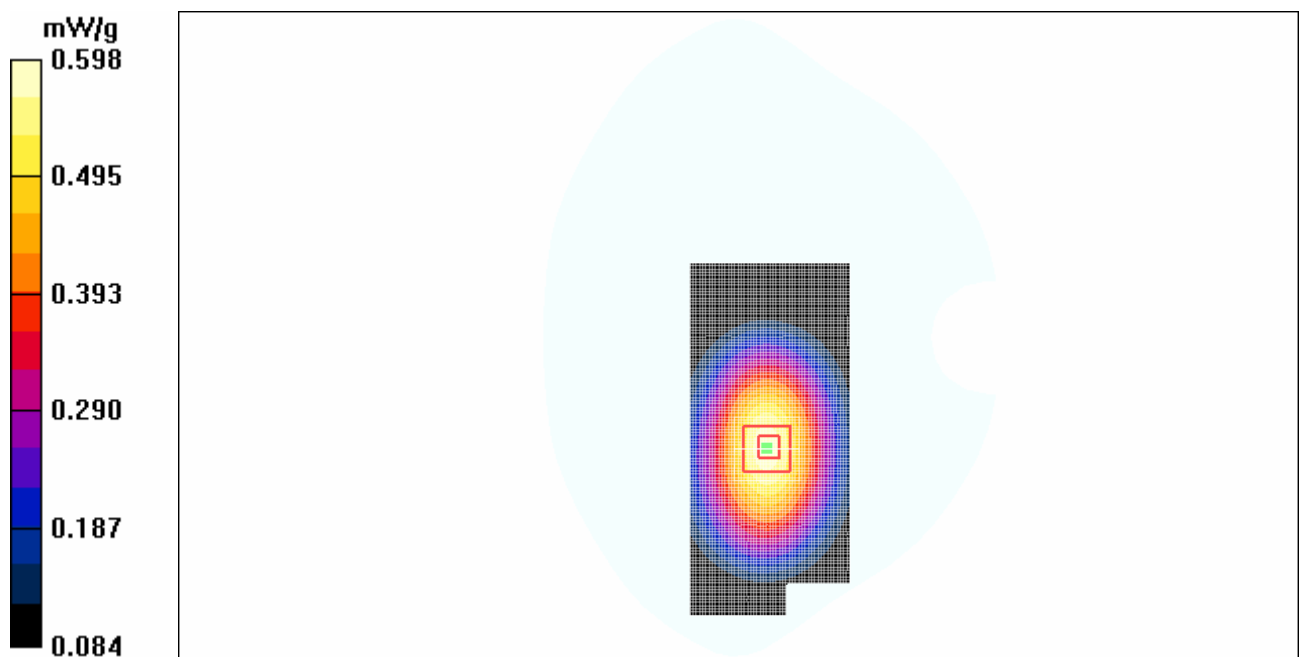


Figure 256 Body, Towards Phantom, Open WCDMA Band V Channel 4182

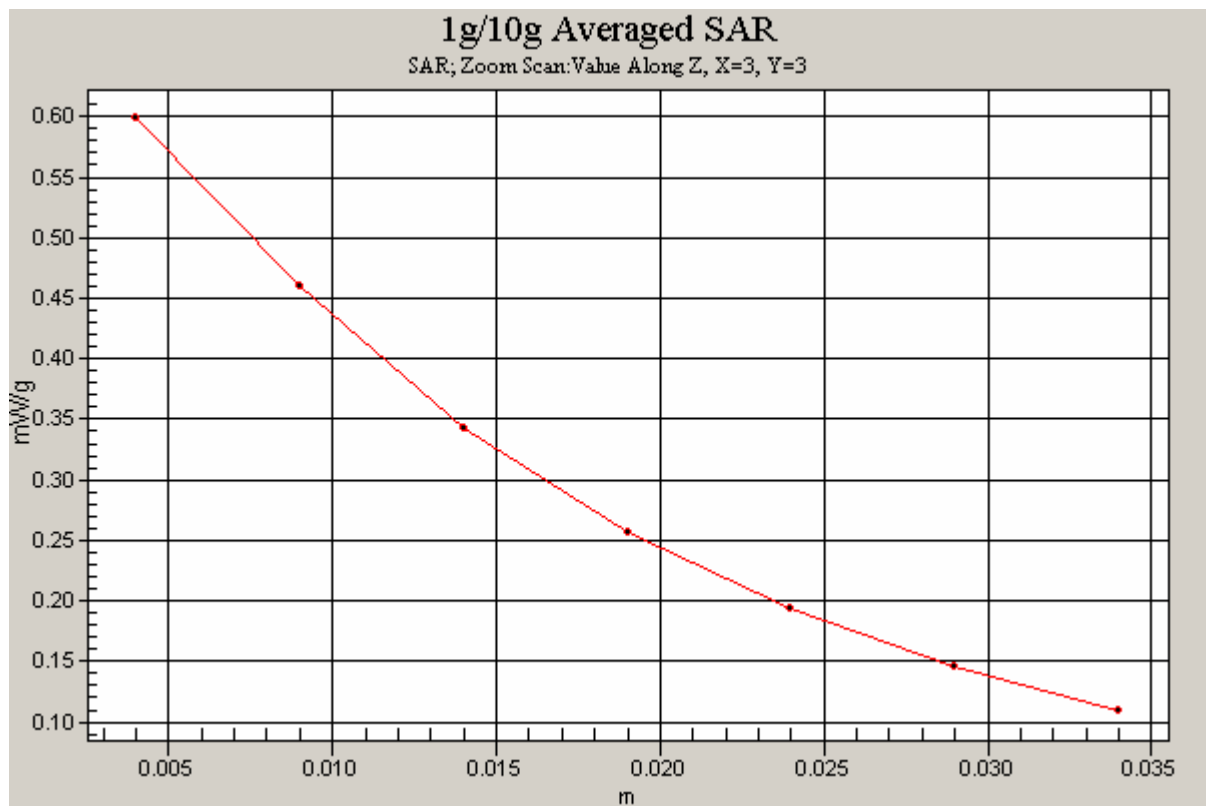


Figure 257 Z-Scan at power reference point (Body, Towards Phantom, Open WCDMA Band V Channel 4182)

WCDMA Band V Towards Phantom Low Open

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Phantom Low/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 15.5 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 0.694 W/kg

SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.405 mW/g

Maximum value of SAR (measured) = 0.588 mW/g

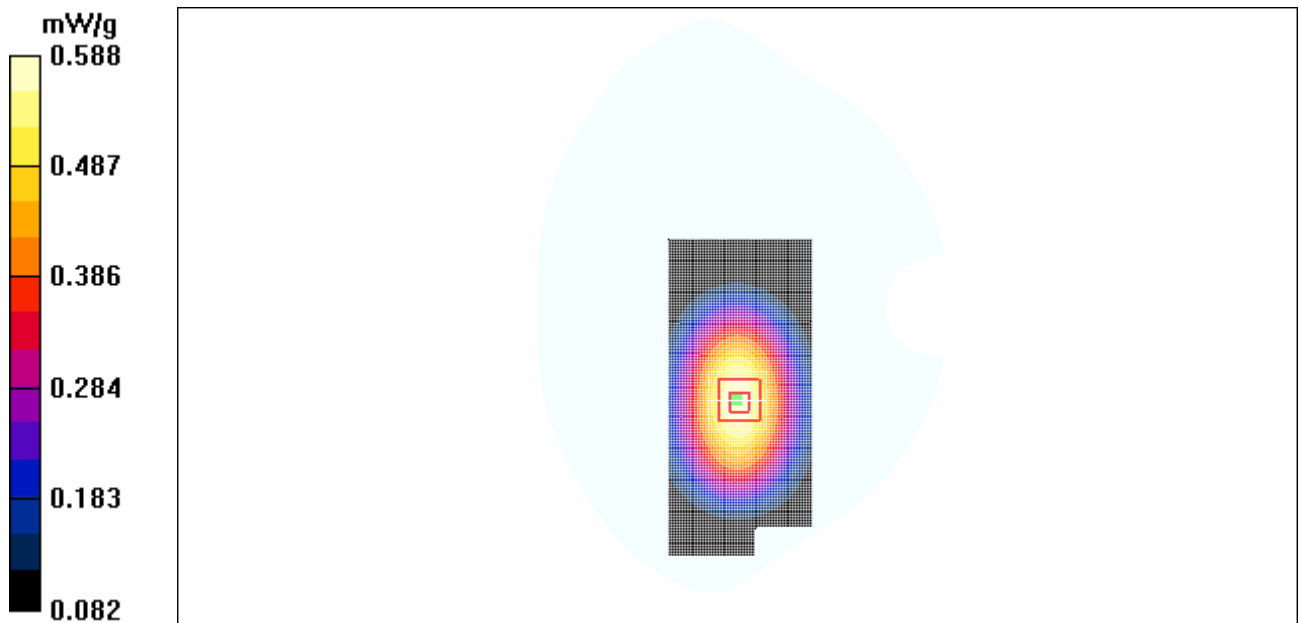


Figure 258 Body, Towards Phantom, Open WCDMA Band V Channel 4132

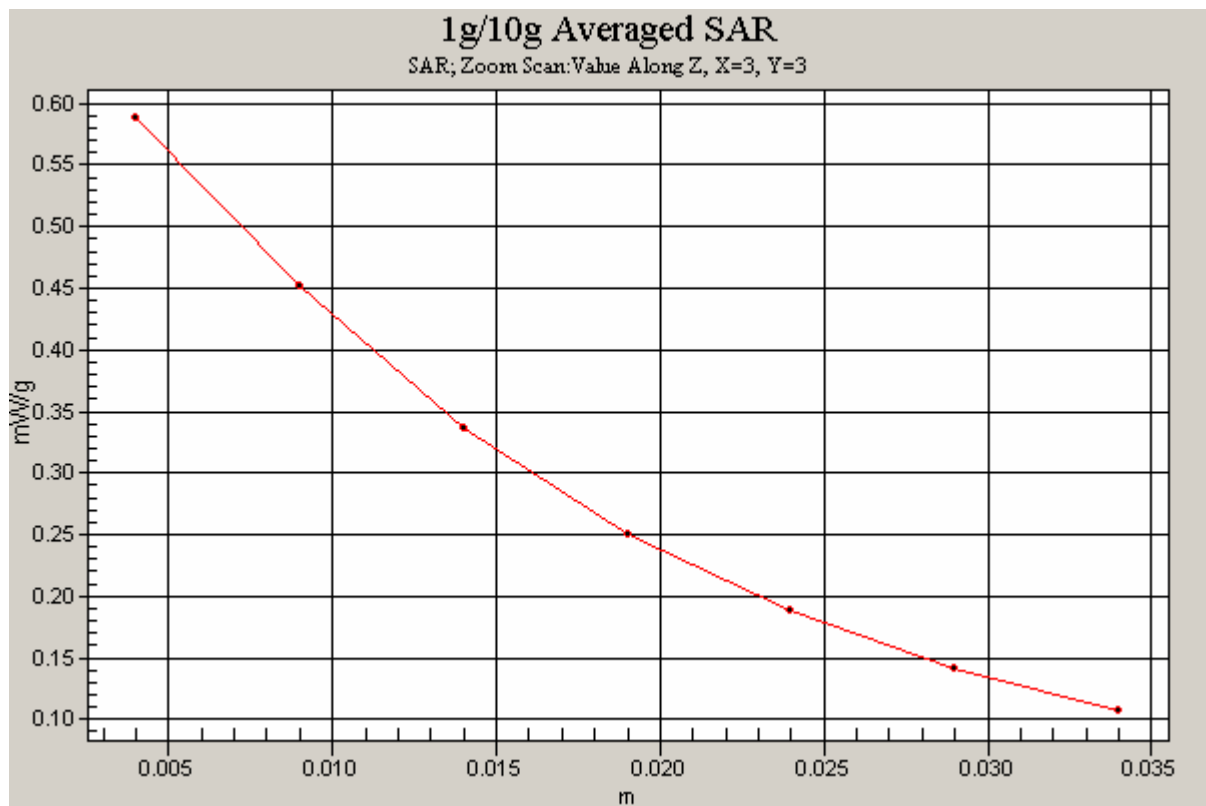


Figure 259 Z-Scan at power reference point (Body with Earphone, Towards Ground, Open WCDMA Band V Channel 4132)

WCDMA Band V Earphone Towards Phantom Middle Open

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Phantom Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.590 mW/g

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

Reference Value = 15.1 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 0.701 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.411 mW/g

Maximum value of SAR (measured) = 0.597 mW/g

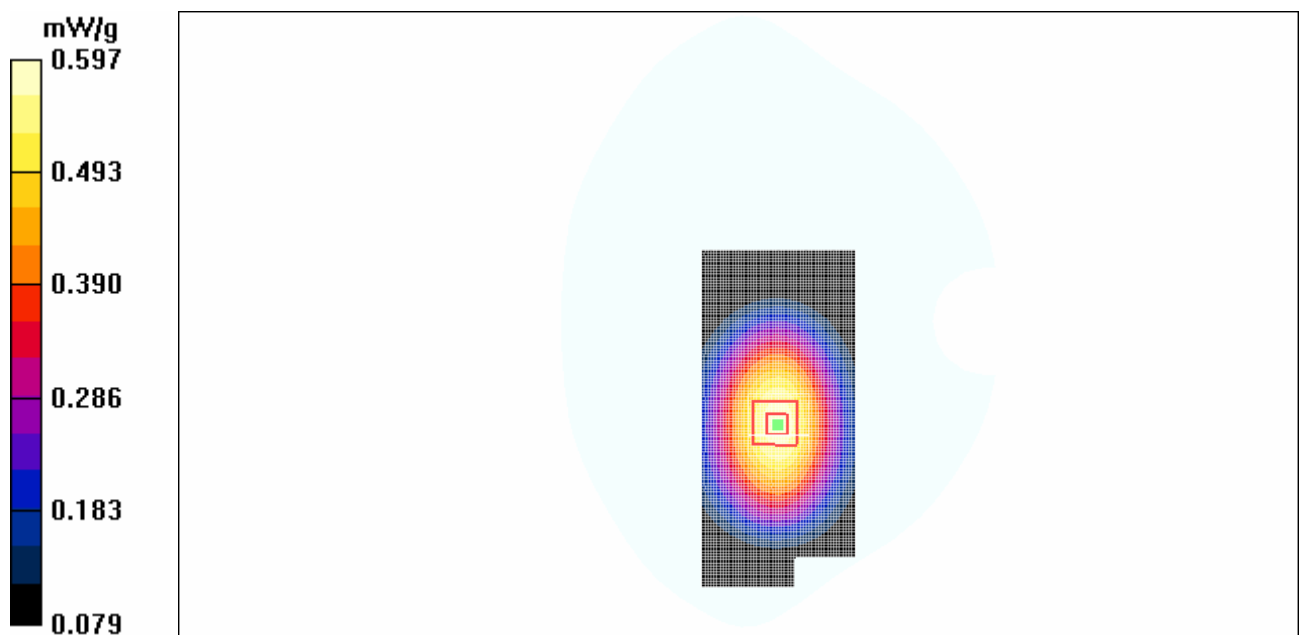


Figure 260 Body with Earphone, Towards Phantom, Open WCDMA Band V, Channel 4182

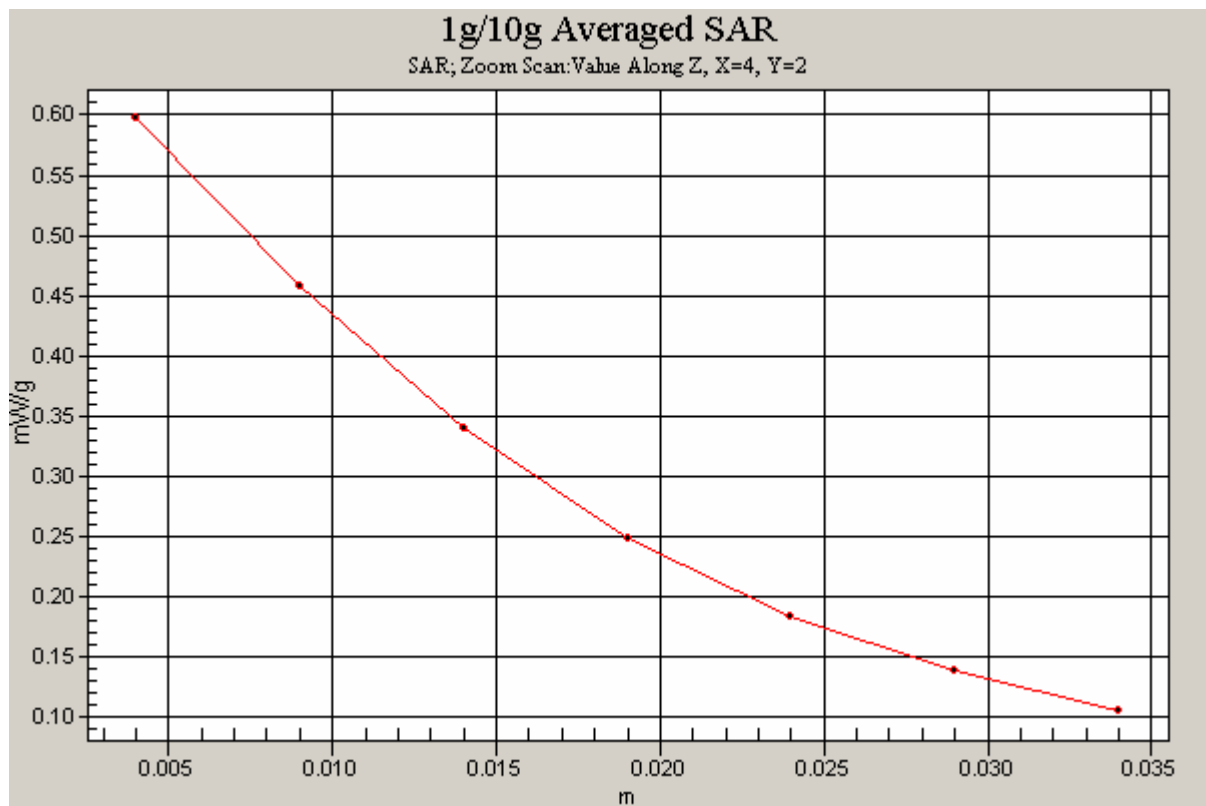


Figure 261 Z-Scan at power reference point (Body with Earphone, Towards Phantom, Open WCDMA Band V, Channel 4182)

WCDMA Band V Bluetooth Earphone Towards Phantom Middle Open

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

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 1.02$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

Towards Phantom Middle/Area Scan (51x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.621 mW/g

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

Reference Value = 15.9 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.741 W/kg

SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.426 mW/g

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

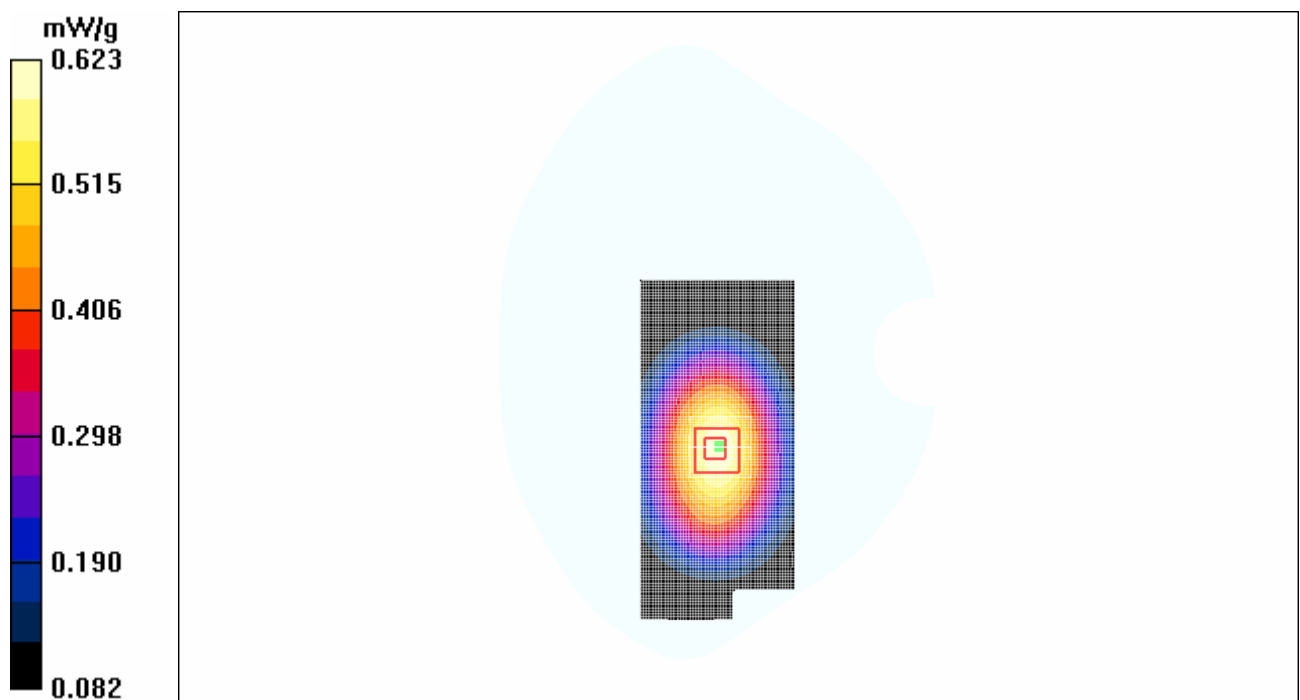


Figure 262 Body with Bluetooth earphone, Towards Phantom Open WCDMA Band V, Channel 4182

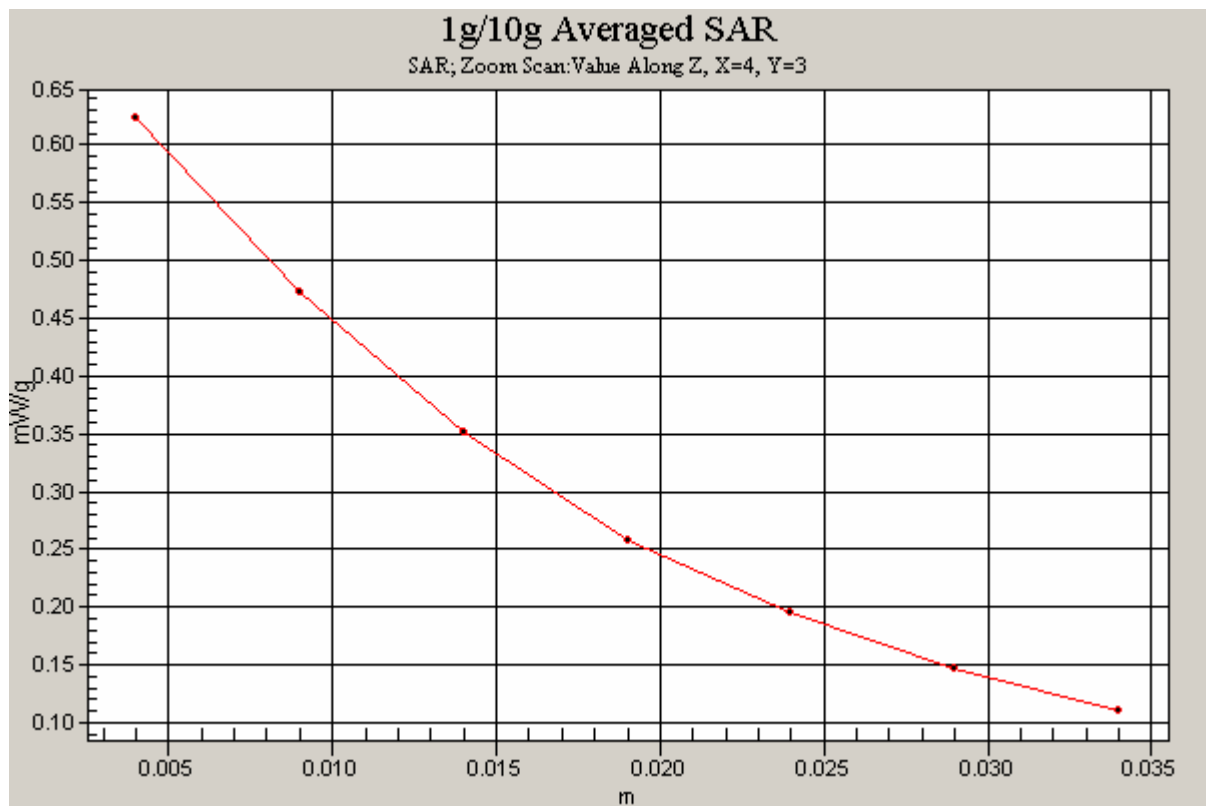


Figure 263 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Phantom, Open WCDMA Band V, Channel 4182

WCDMA Band V Left Cheek High Close

Communication System: WCDMA Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 847$ MHz; $\sigma = 0.947$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³
Probe: ET3DV6 - SN1531; ConvF(6.85, 6.85, 6.85);
Electronics: DAE4 Sn452;

Cheek High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.113 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.53 V/m; Power Drift = 0.183 dB
Peak SAR (extrapolated) = 0.153 W/kg
SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.078 mW/g
Maximum value of SAR (measured) = 0.119 mW/g

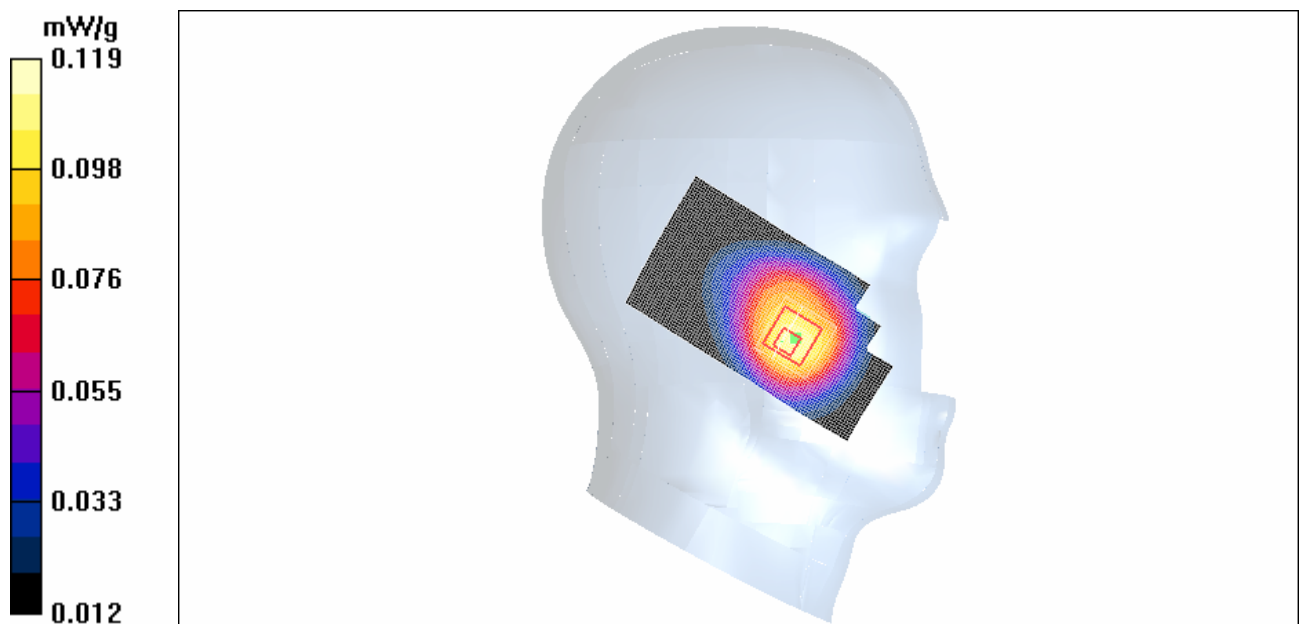


Figure 264Left Hand Touch Cheek Close WCDMA Band V Channel 4233

WCDMA Band V Earphone Towards Ground Low Close

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

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

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

Reference Value = 6.30 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.439 mW/g; SAR(10 g) = 0.278 mW/g

Maximum value of SAR (measured) = 0.479 mW/g

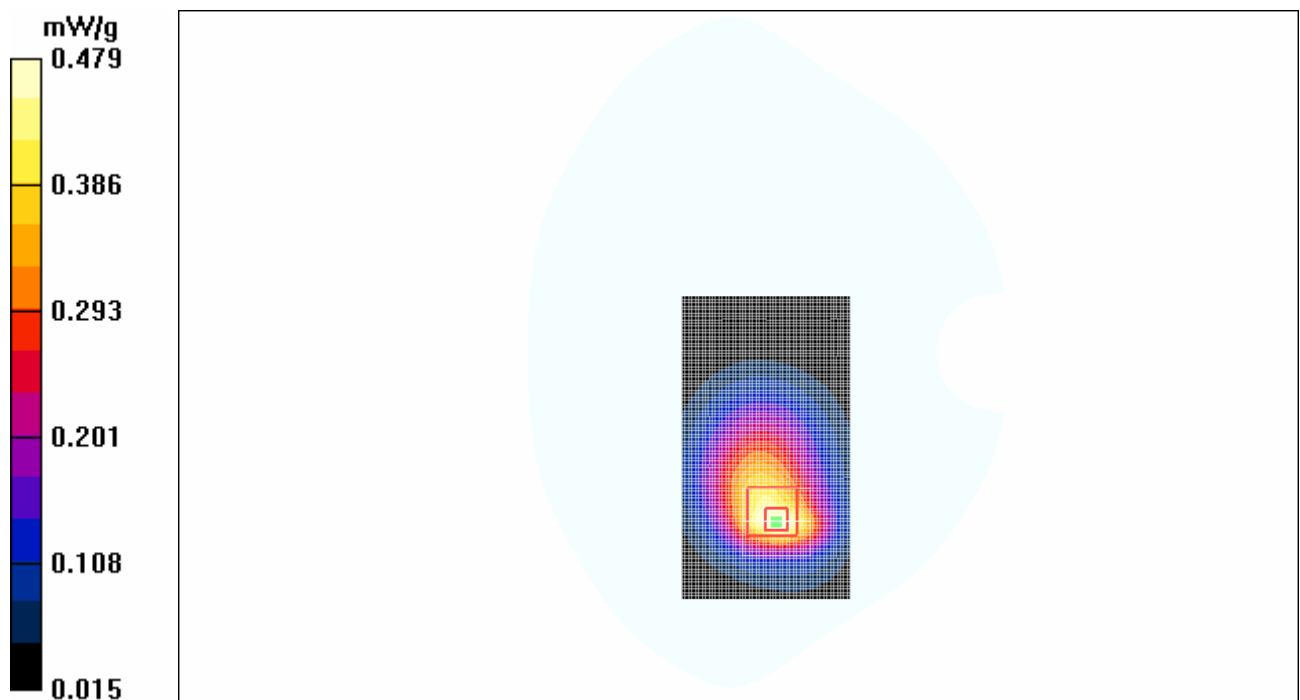


Figure 300 Body with Earphone, Towards Ground, Close WCDMA Band V Channel 4132

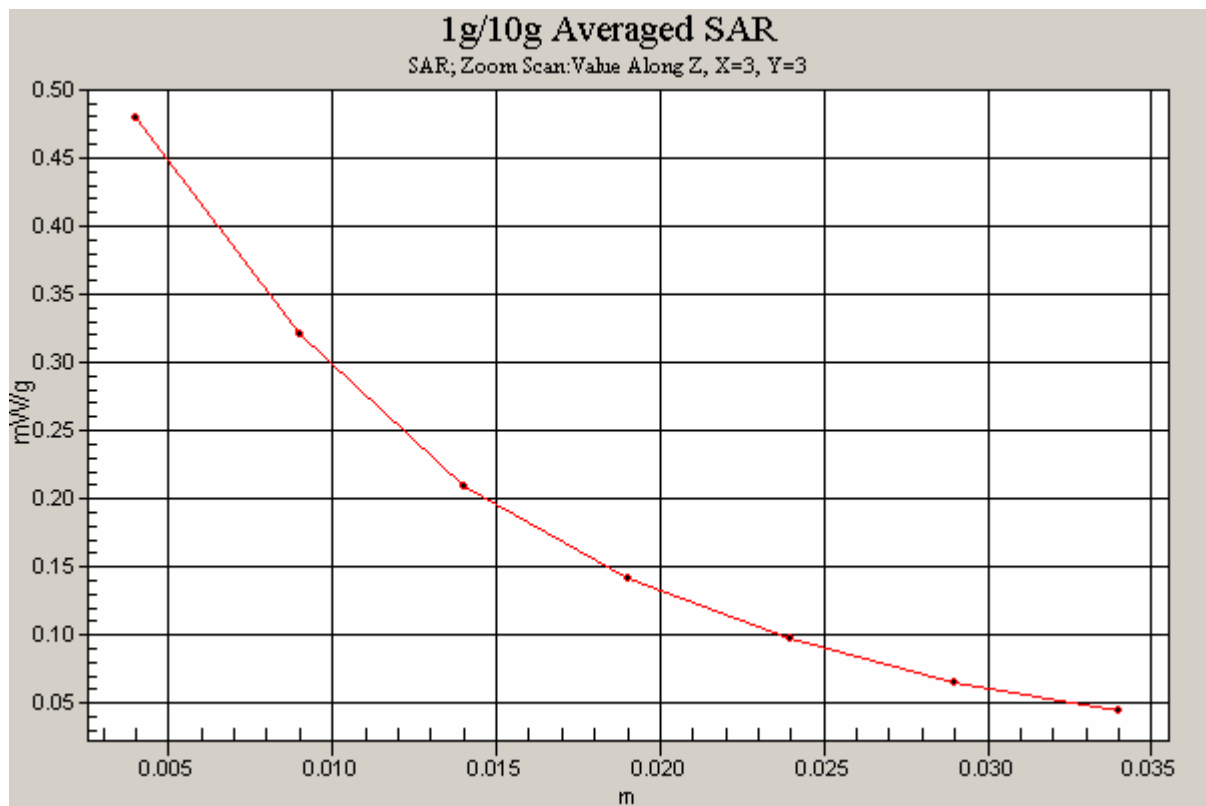


Figure 301 Z-Scan at power reference point (Body with Earphone, Towards Ground, Close WCDMA Band V Channel 4132)

WCDMA Band V Bluetooth Earphone Towards Ground Low Close

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

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 55.7$; $\rho = 1000$ kg/m³

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

Electronics: DAE4 Sn452;

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

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

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

Reference Value = 7.22 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 0.657 W/kg

SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.285 mW/g

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

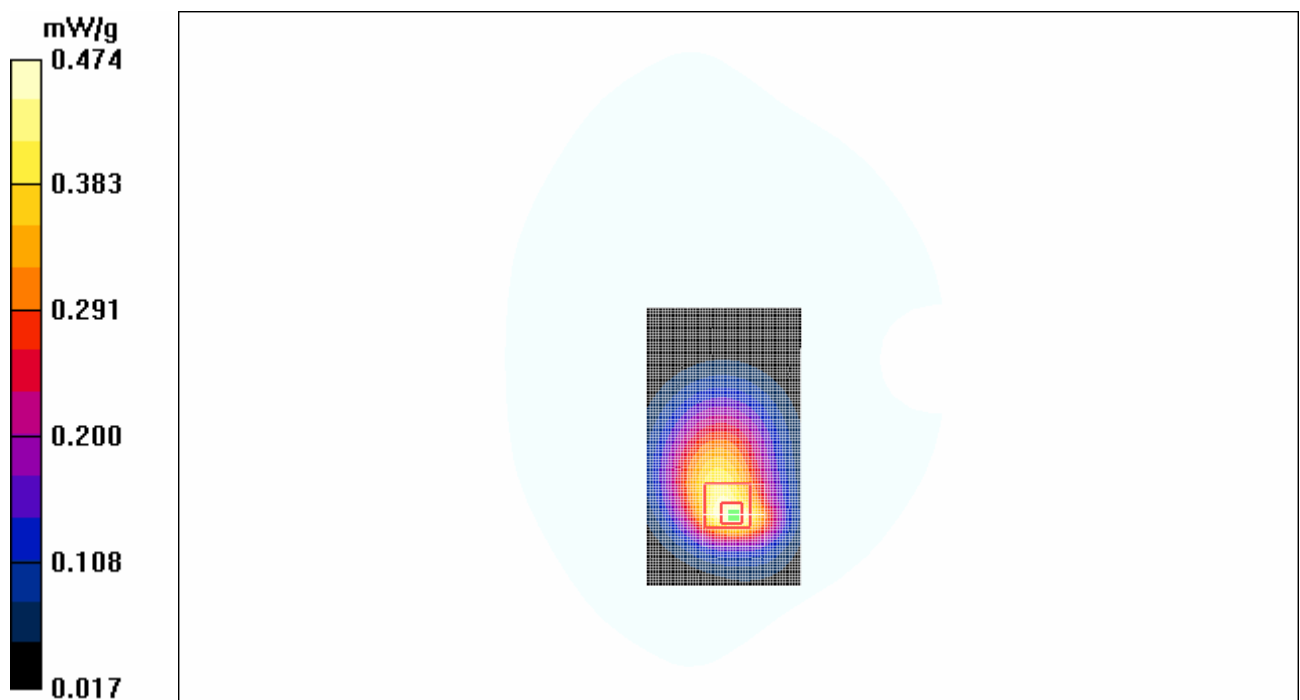


Figure 302 Body with Bluetooth earphone, Towards Ground, Close WCDMA Band V, Channel 4132

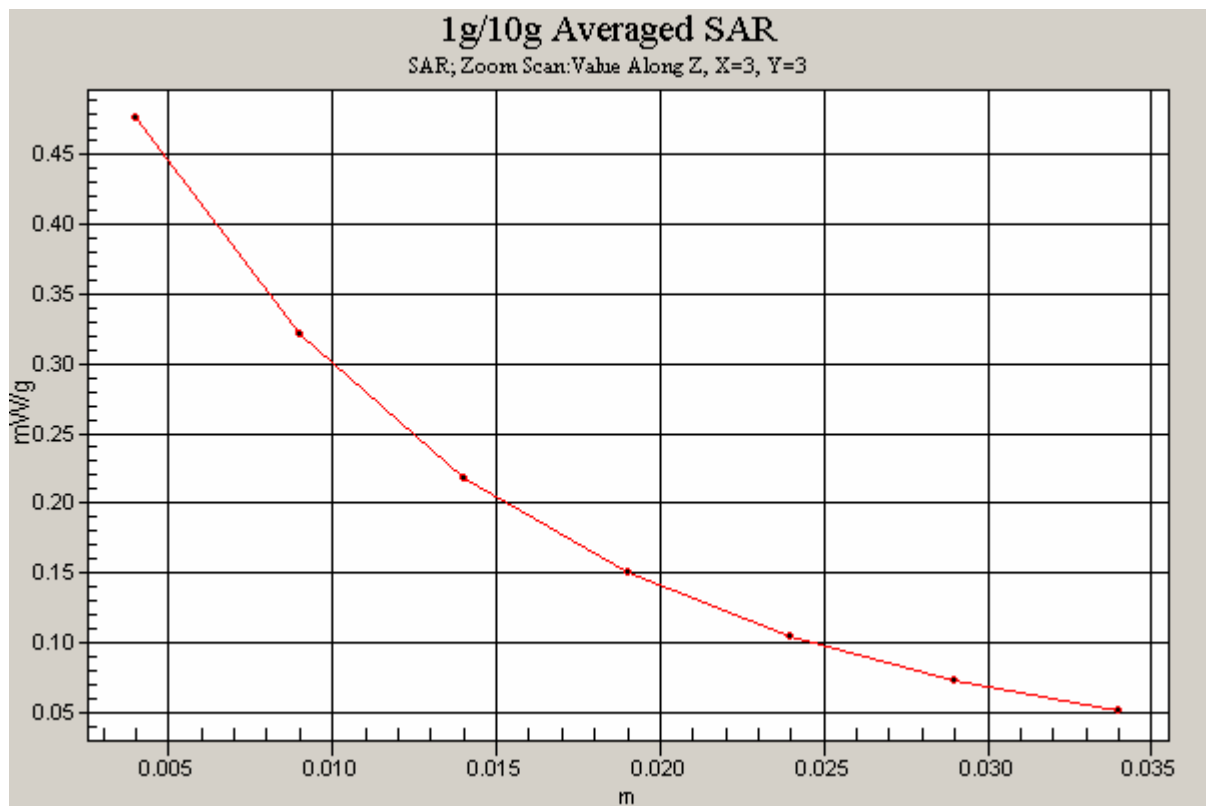


Figure 303 Z-Scan at power reference point (Body with Bluetooth earphone, Towards Ground, Close WCDMA Band V, Channel 4132)

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: $f = 835 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 42.69$; $\rho = 1000 \text{ kg/m}^3$

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

- Electronics: DAE4 Sn452;

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

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

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

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

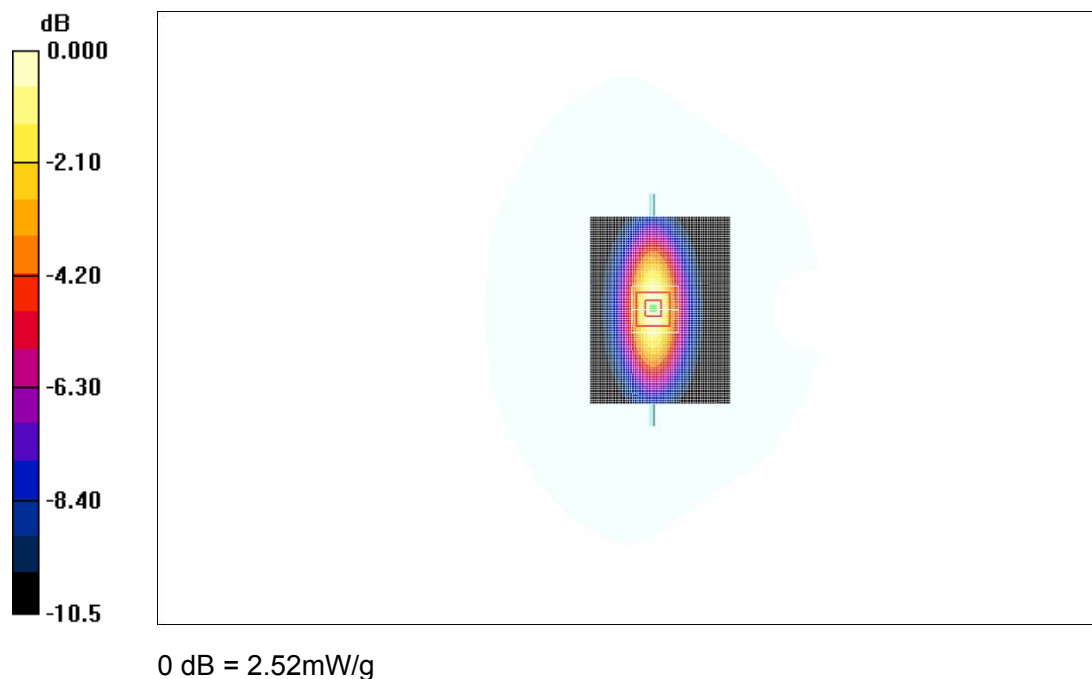


Figure 304 System Performance Check 835MHz 250mW

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: $f = 1900 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 40.18$; $\rho = 1000 \text{ kg/m}^3$

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

Electronics: DAE4 Sn452;

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

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

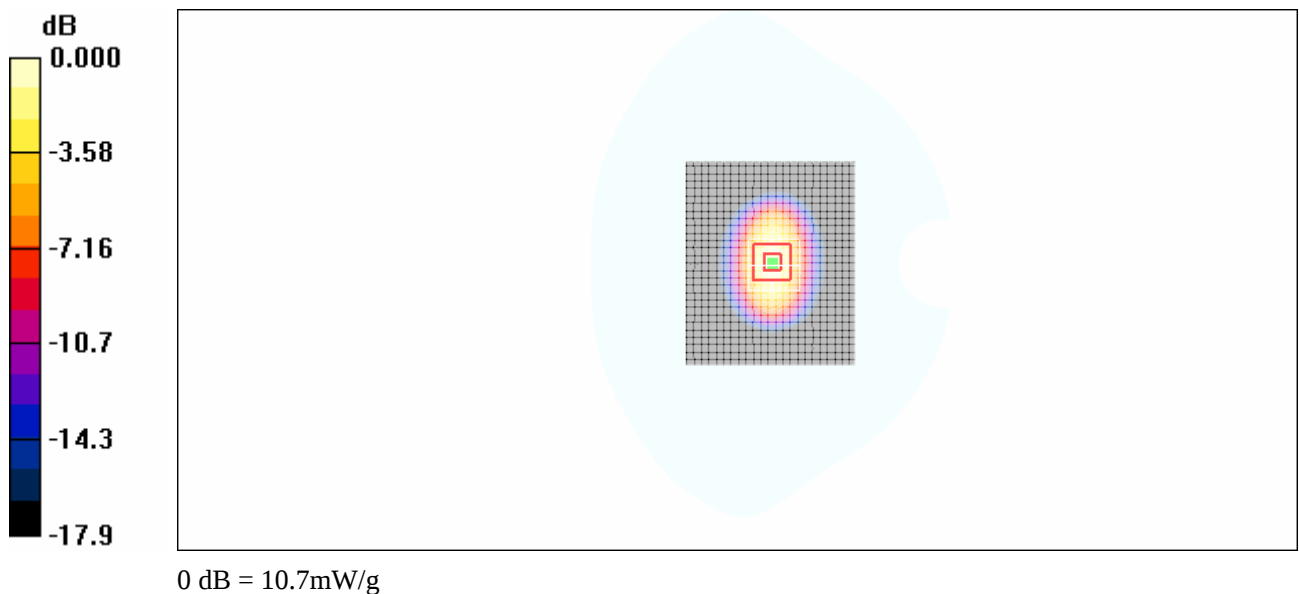


Figure 305 System Performance Check 1900MHz 250mW

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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 v6 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 $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE 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	MY41495277	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: S5088 (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	US37390585	18-Oct-01 (SPEAG, in house check Oct-07)	In house check: Oct-08

	Name	Function	Signature
Calibrated by:	Kolja Potovic	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.

Certificate No: ET3-1531_Jan08

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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., $\theta = 0$ 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 $\theta = 0$ ($f \leq 900$ 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.