1900 GPRS Test Position 8 with DELL Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 8/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
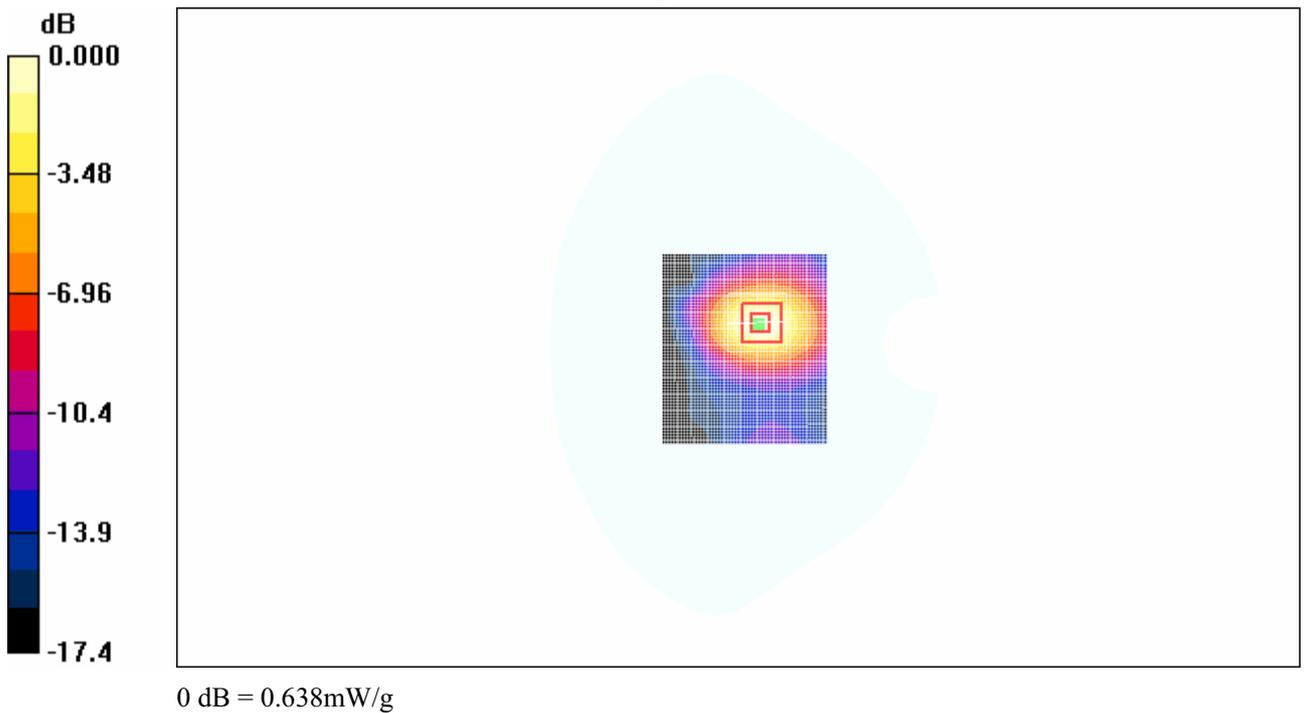
Maximum value of SAR (interpolated) = 0.667 mW/g

Test Position 8/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
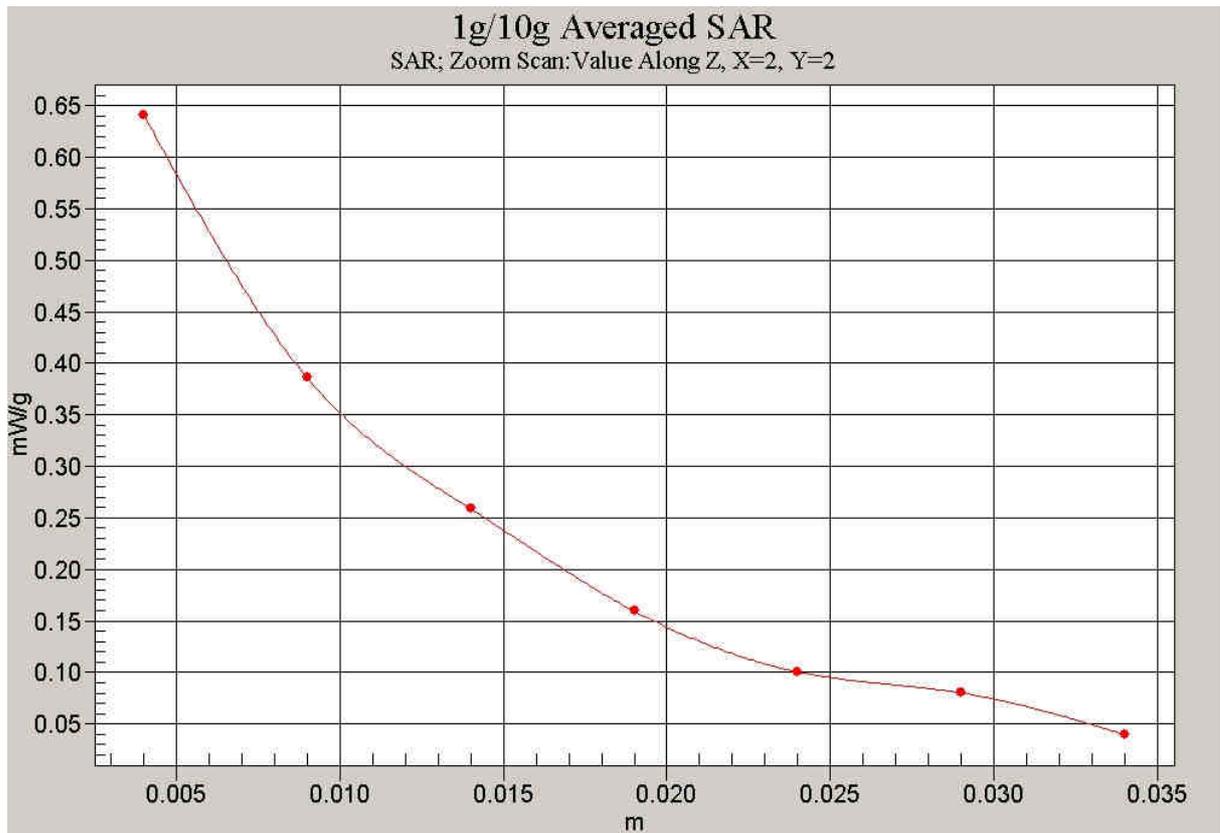
Reference Value = 15.1 V/m; Power Drift = -0.105 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.586 mW/g; SAR(10 g) = 0.328 mW/g

Maximum value of SAR (measured) = 0.638 mW/g

0 dB = 0.638mW/g

Fig.151 1900MHz GPRS CH661 Test Position 8

Fig.152 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 8)

1900 GPRS Test Position 1 with HP Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

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

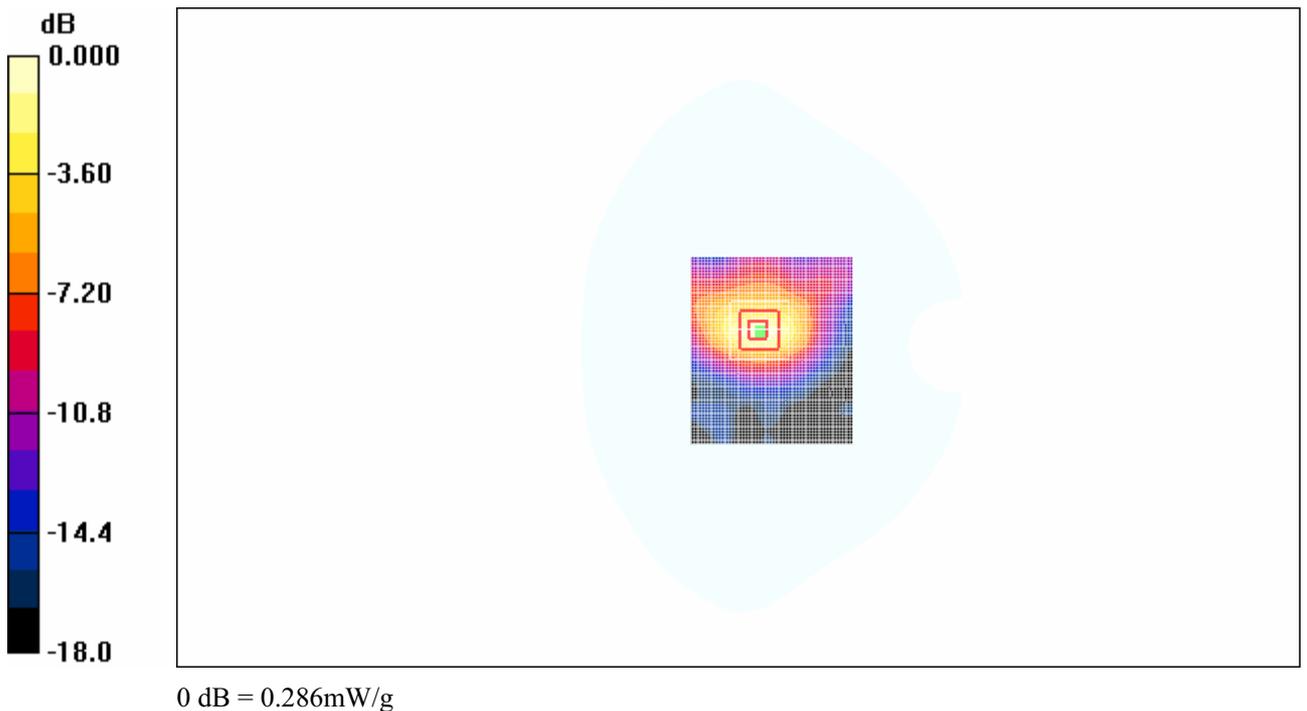Maximum value of SAR (interpolated) = 0.263 mW/g

Test Position 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
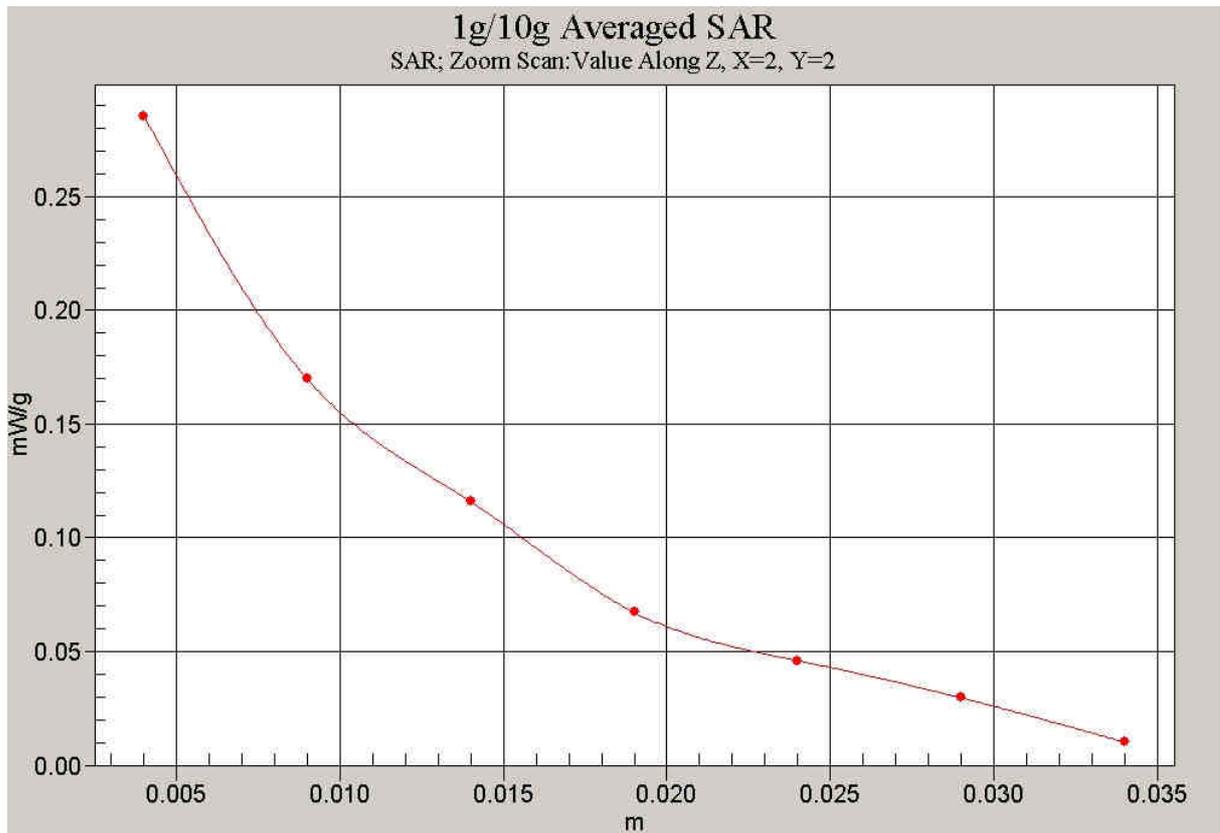
Reference Value = 10.5 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.286 mW/g

0 dB = 0.286mW/g

Fig.153 1900MHz GPRS CH661Test Position 1

Fig.154 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 1)

1900 GPRS Test Position 2 with HP Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 2/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
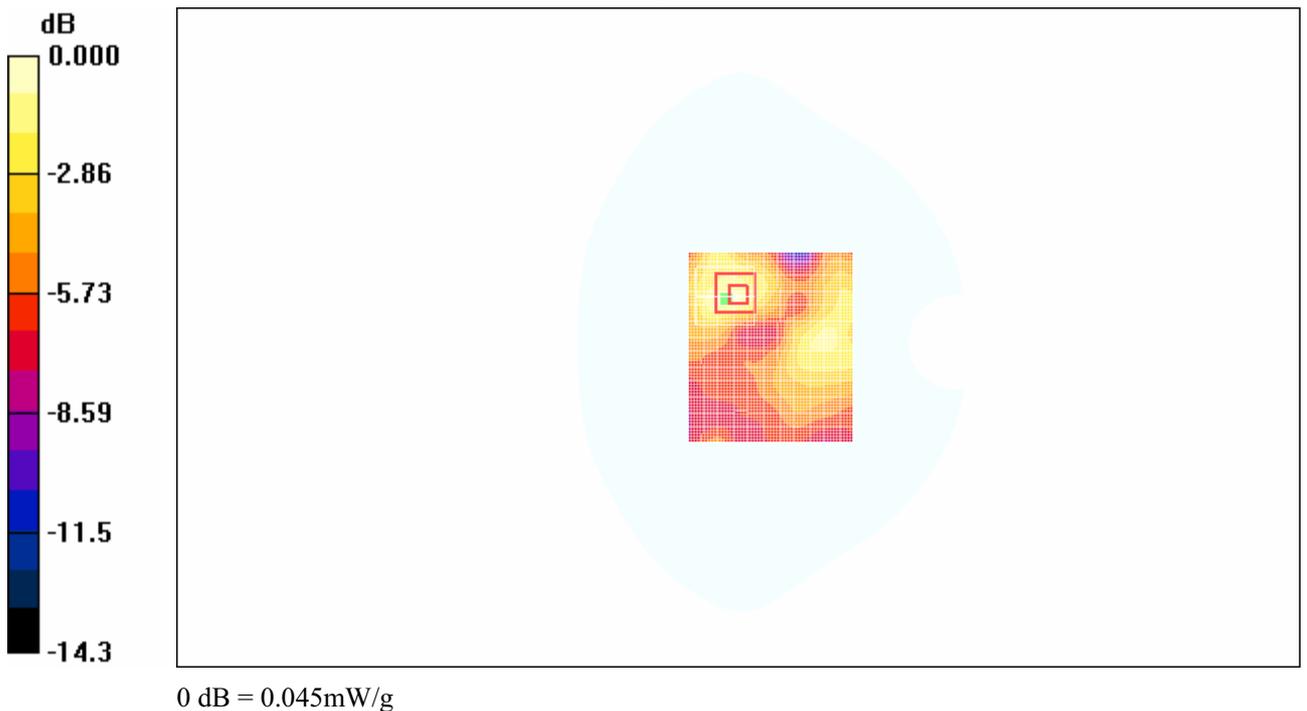
Maximum value of SAR (interpolated) = 0.038 mW/g

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

Reference Value = 2.50 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 0.071 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.045 mW/g

0 dB = 0.045mW/g

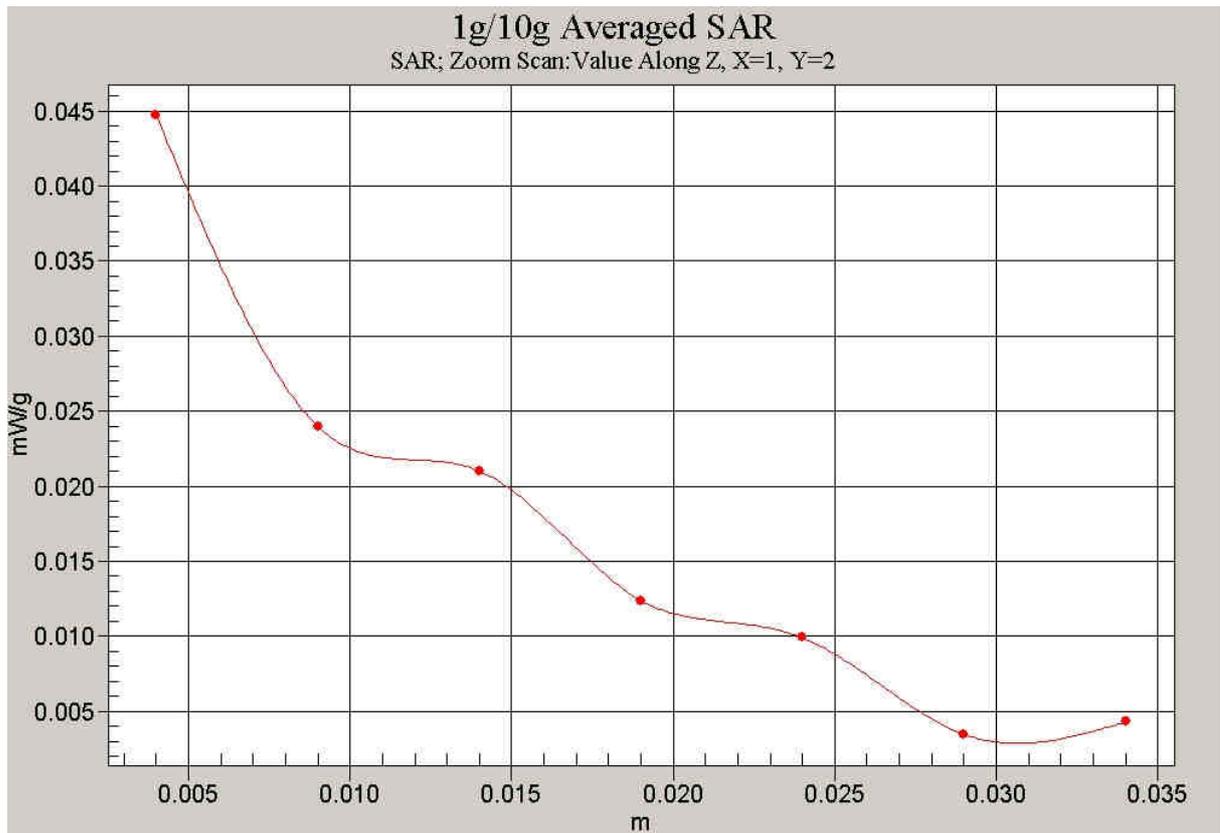**Fig.155 1900MHz GPRS CH661Test Position 2**

Fig.156 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 2)

1900 GPRS Test Position 3 with HP Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 3/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

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

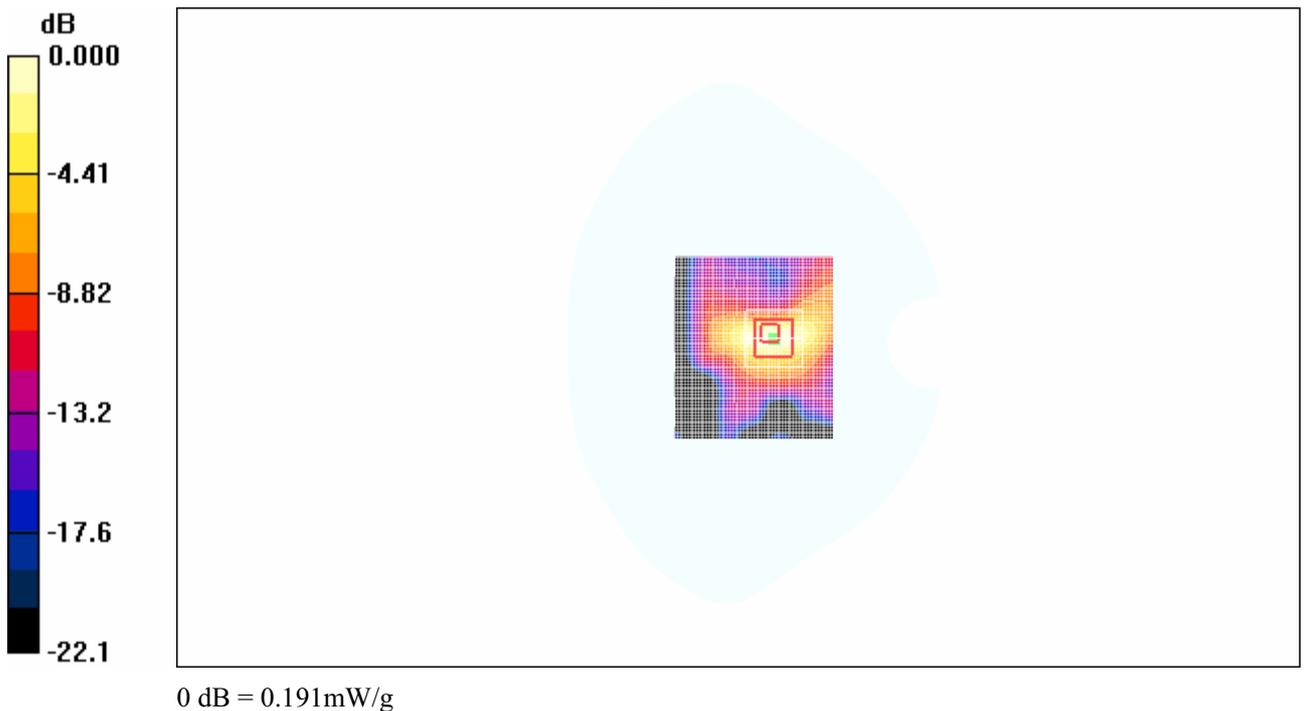**Test Position 3/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.76 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.191 mW/g

0 dB = 0.191mW/g

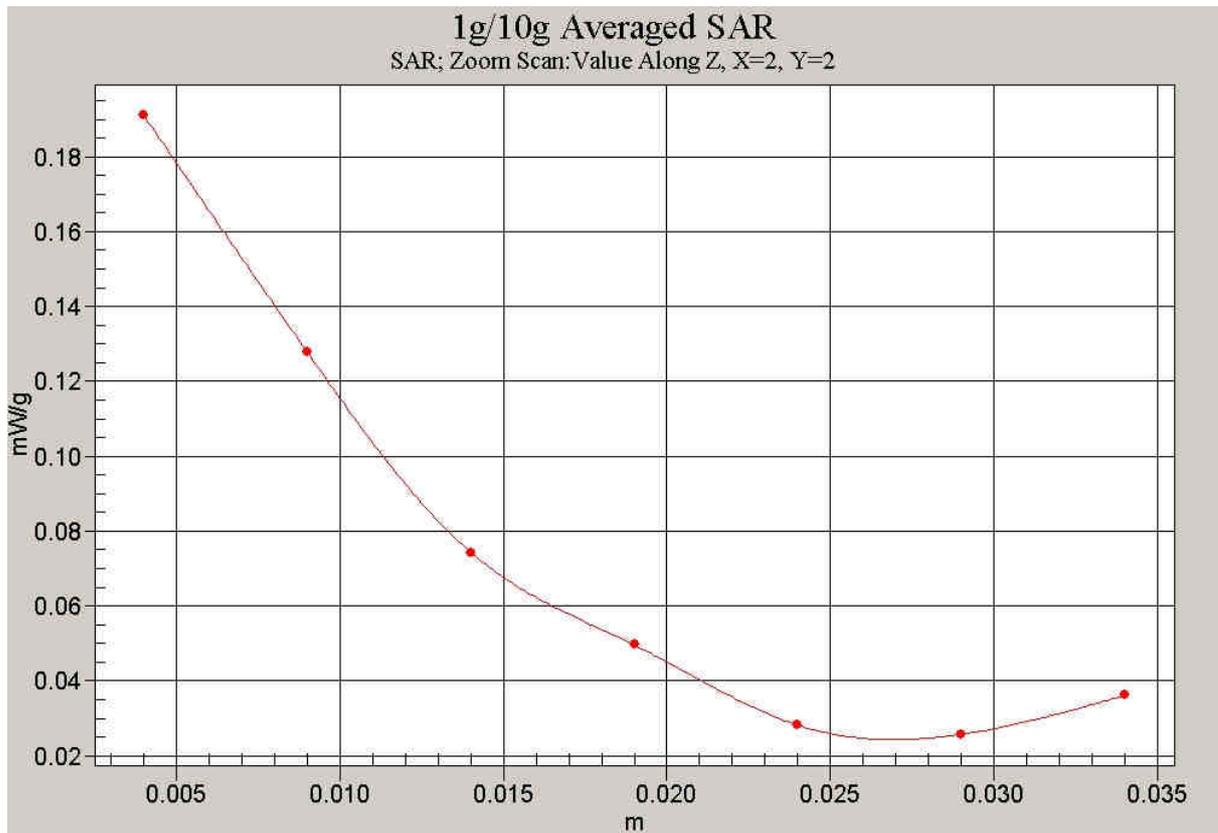**Fig.157 1900MHz GPRS CH661Test Position 3**

Fig.158 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 3)

1900 GPRS Test Position 4 with HP Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 4/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
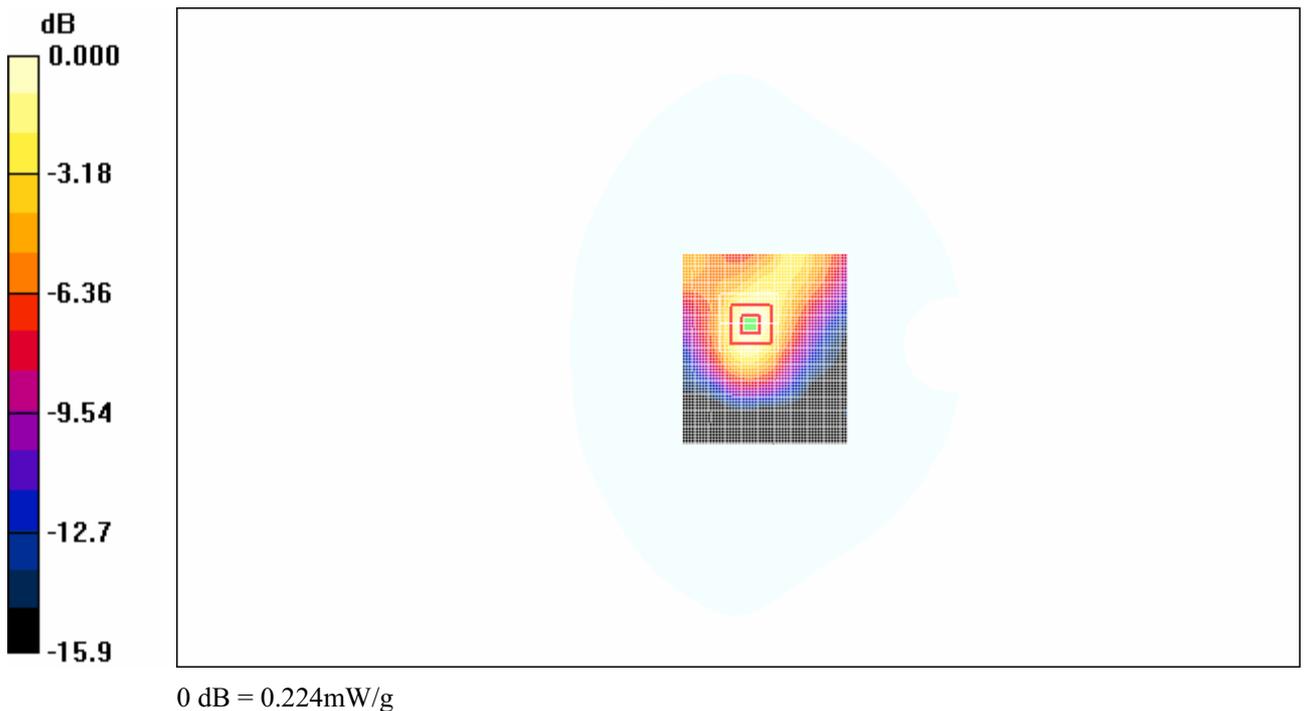
Maximum value of SAR (interpolated) = 0.229 mW/g

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

Reference Value = 10.2 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.360 W/kg

SAR(1 g) = 0.204 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.224 mW/g

0 dB = 0.224mW/g

Fig.159 1900MHz GPRS CH661Test Position 4
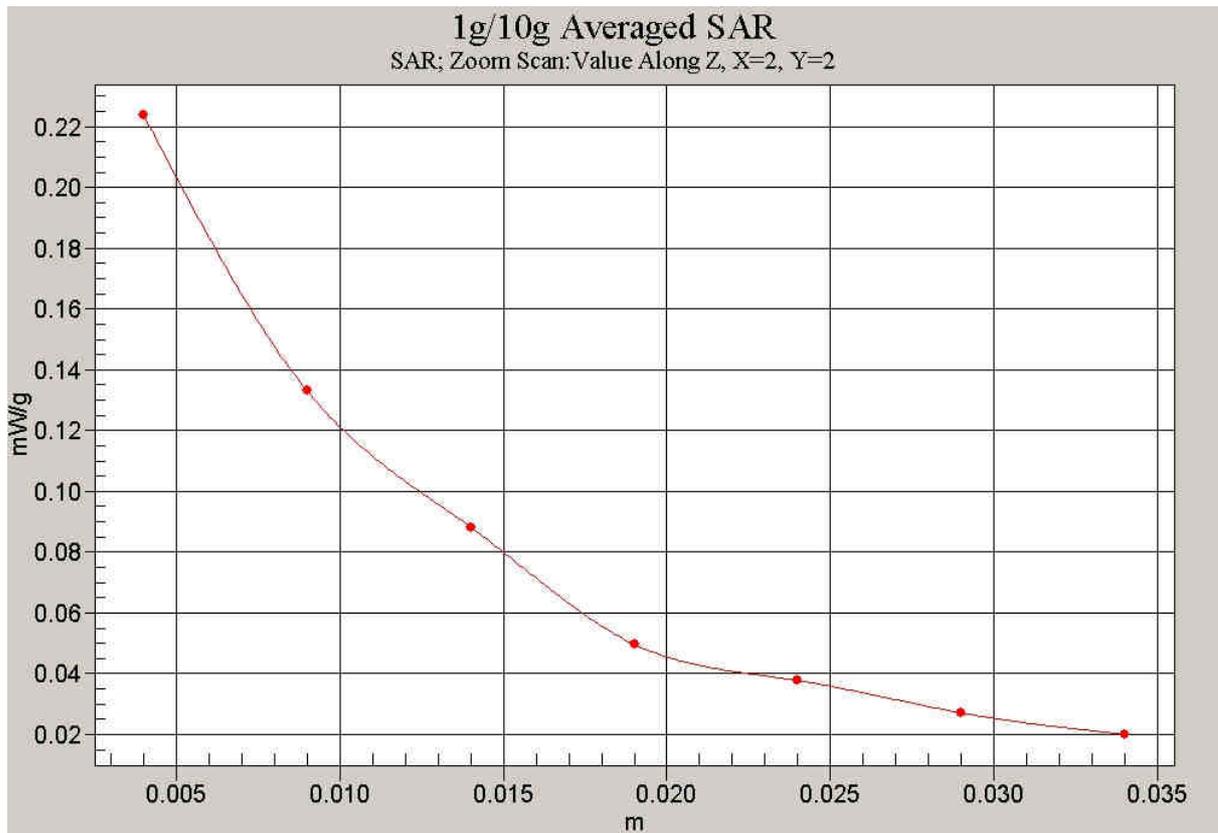
Fig.160 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 4)

1900 GPRS Test Position 5 with HP Laptop-antenna extended
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m³
Ambient Temperature:23.3°C   Liqiud Temperature: 22.5°C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 5/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.347 mW/g

Test Position 5/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
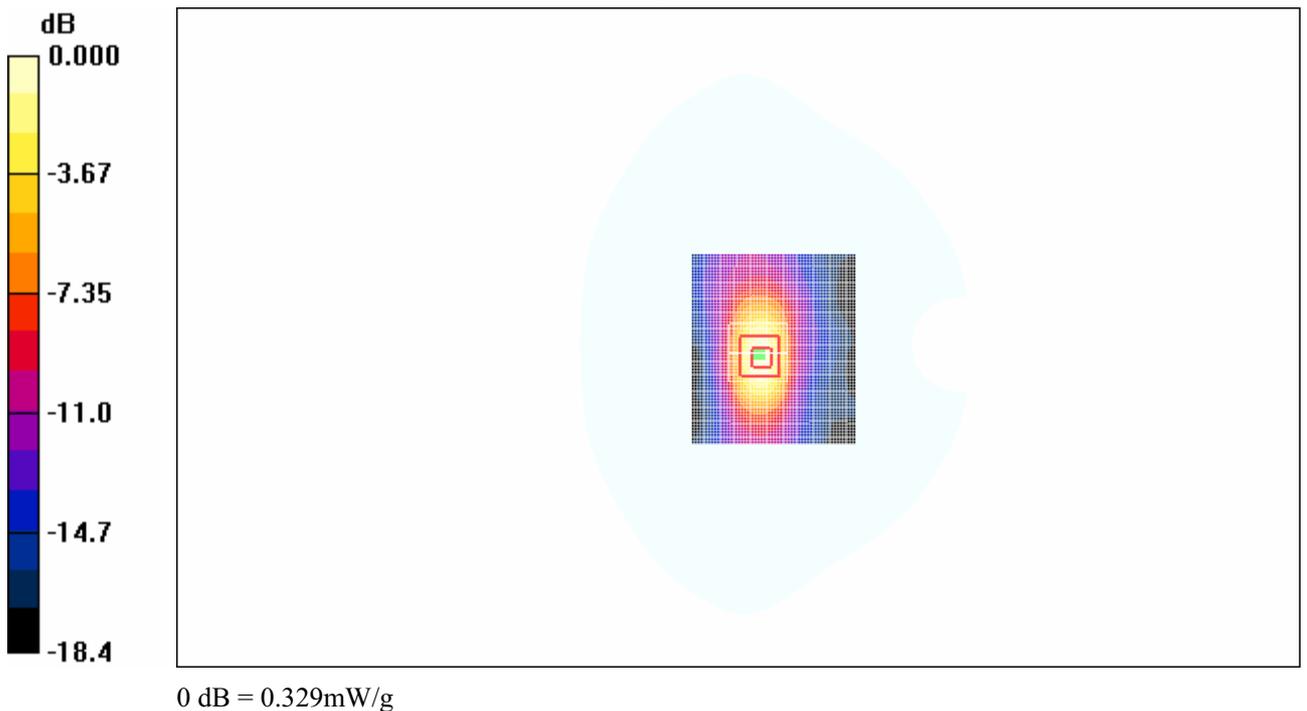Reference Value = 12.6 V/m; Power Drift = -0.022 dB
Peak SAR (extrapolated) = 0.520 W/kg
SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.161 mW/g
Maximum value of SAR (measured) = 0.329 mW/g

0 dB = 0.329mW/g

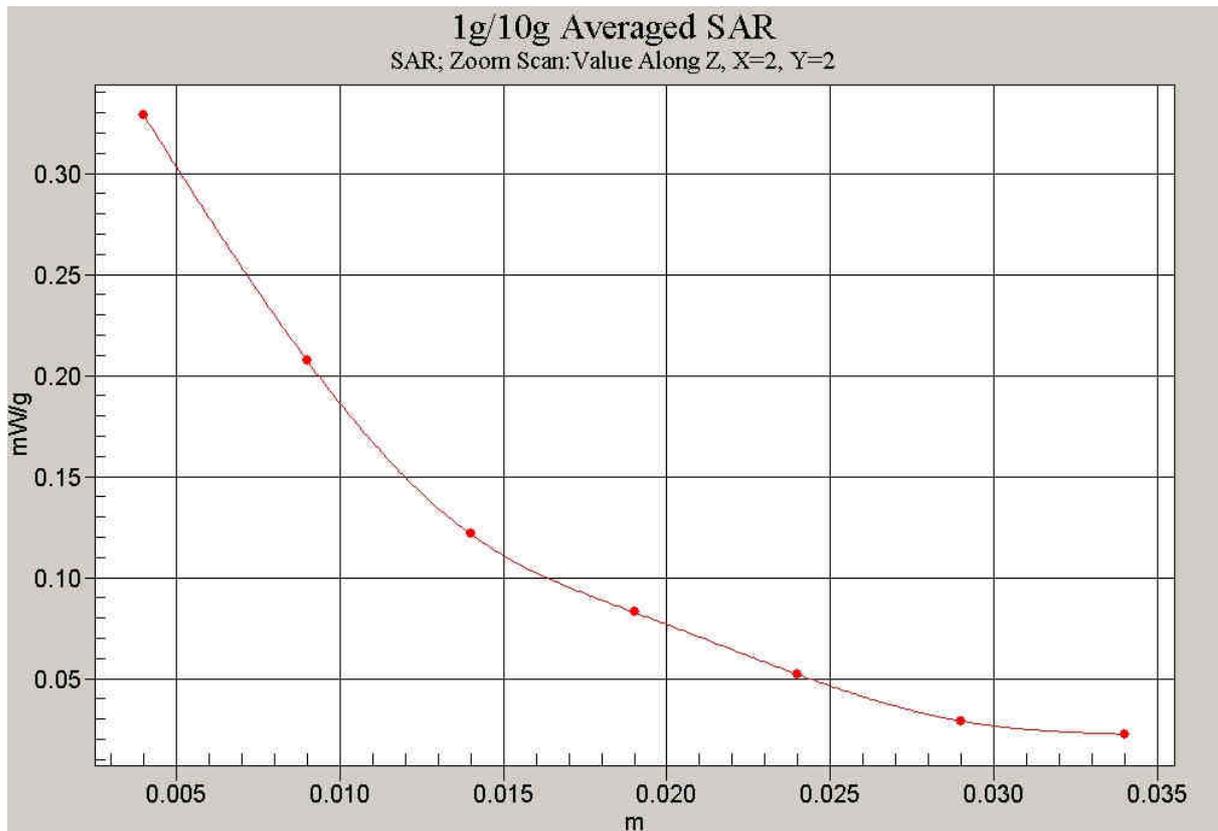**Fig.161 1900MHz GPRS CH661 Test Position 5**

Fig.162 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 5)

1900 GPRS Test Position 6 with HP Laptop-antenna extended
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 6/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.398 mW/g

Test Position 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.9 V/m; Power Drift = 0.020 dB
Peak SAR (extrapolated) = 0.634 W/kg
SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.200 mW/g
Maximum value of SAR (measured) = 0.386 mW/g

0 dB = 0.386mW/g
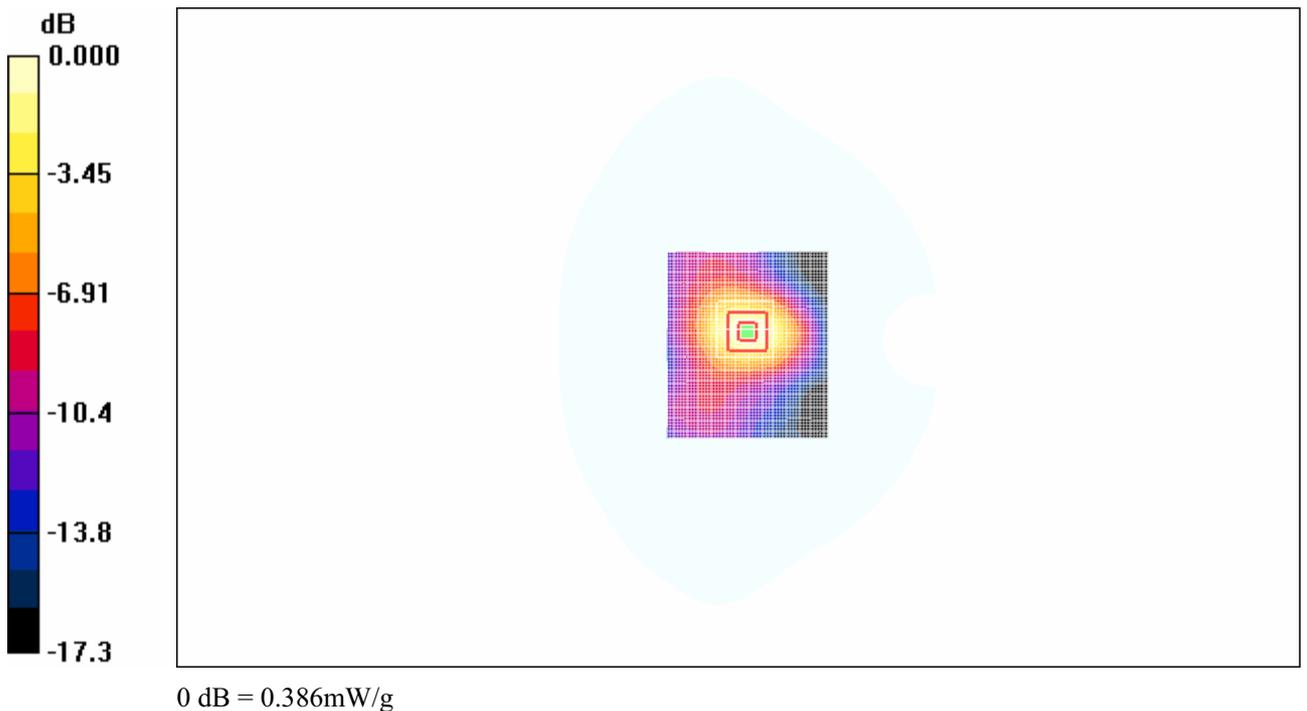
Fig.163 1900MHz GPRS CH661 Test Position 6
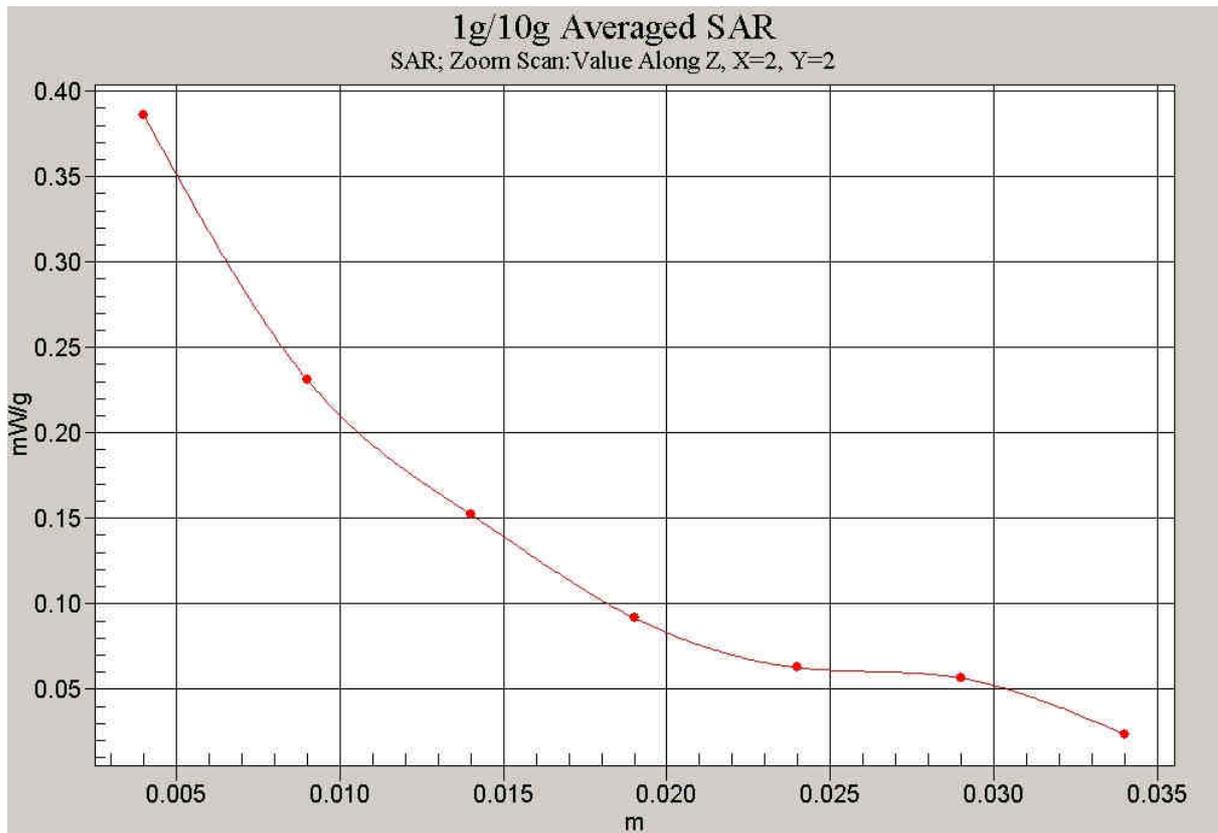
Fig.164 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 6)

1900 GPRS Test Position 7 with HP Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m³

Ambient Temperature:23.3°C　　　　Liqiud Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 7/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.426 mW/g

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

Reference Value = 13.5 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.654 W/kg

SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.197 mW/g

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

0 dB = 0.406mW/g
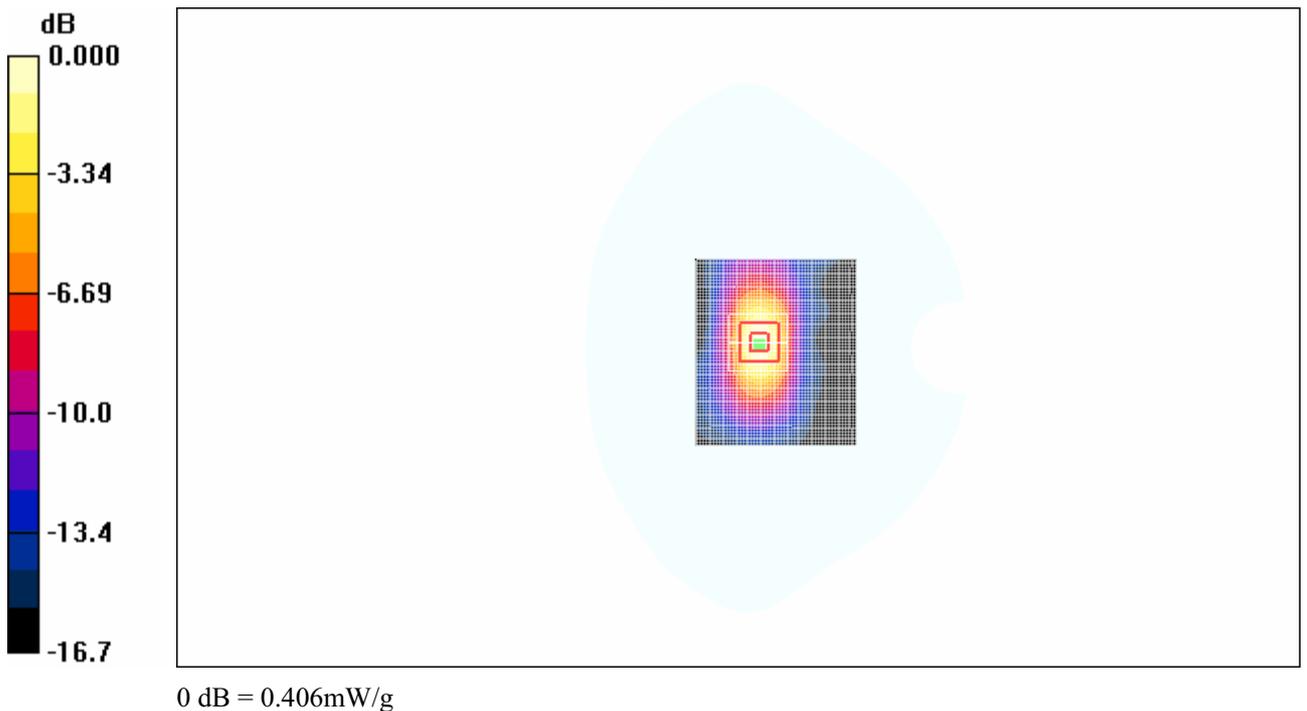
Fig.165 1900MHz GPRS CH661 Test Position 7

Fig.166 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 7)

1900 GPRS Test Position 8 with HP Laptop-antenna extended
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 8/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
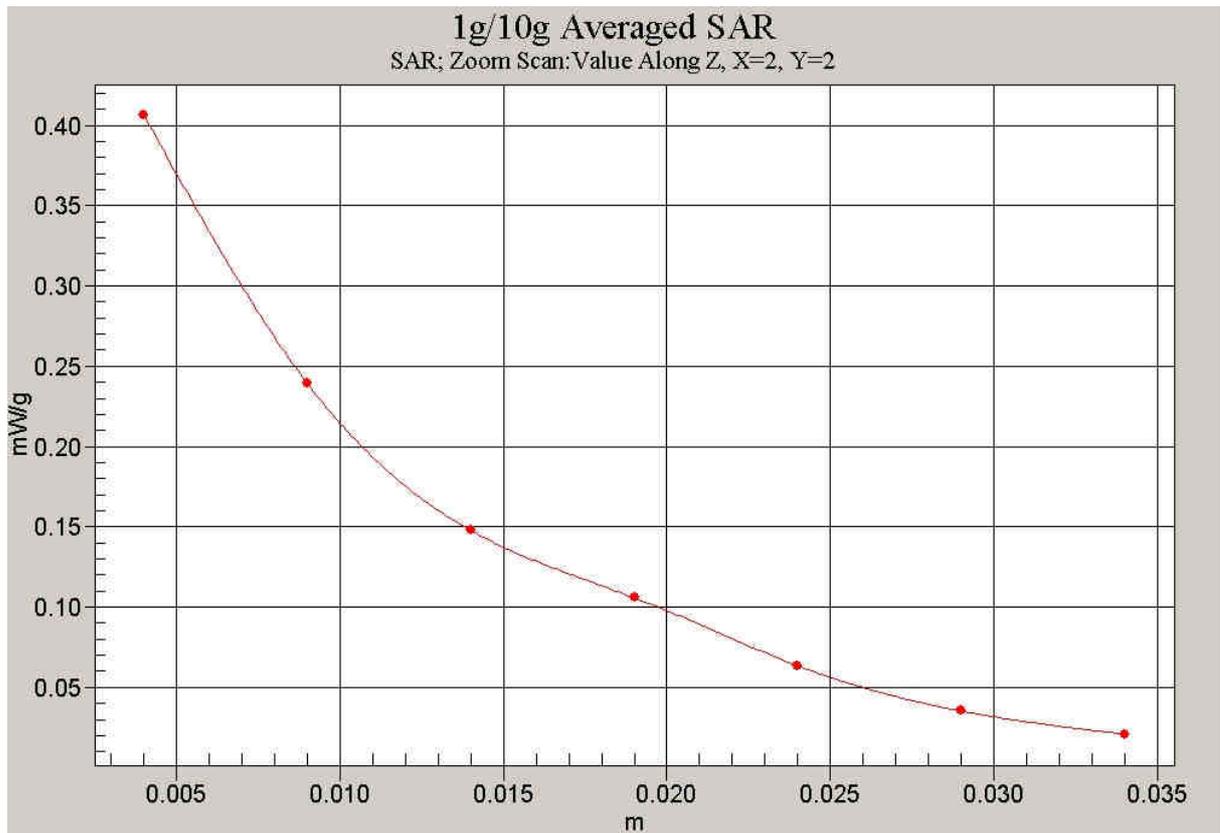Maximum value of SAR (interpolated) = 0.339 mW/g

Test Position 8/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.4 V/m; Power Drift = -0.020 dB
Peak SAR (extrapolated) = 0.541 W/kg
SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.170 mW/g
Maximum value of SAR (measured) = 0.336 mW/g

0 dB = 0.336mW/g
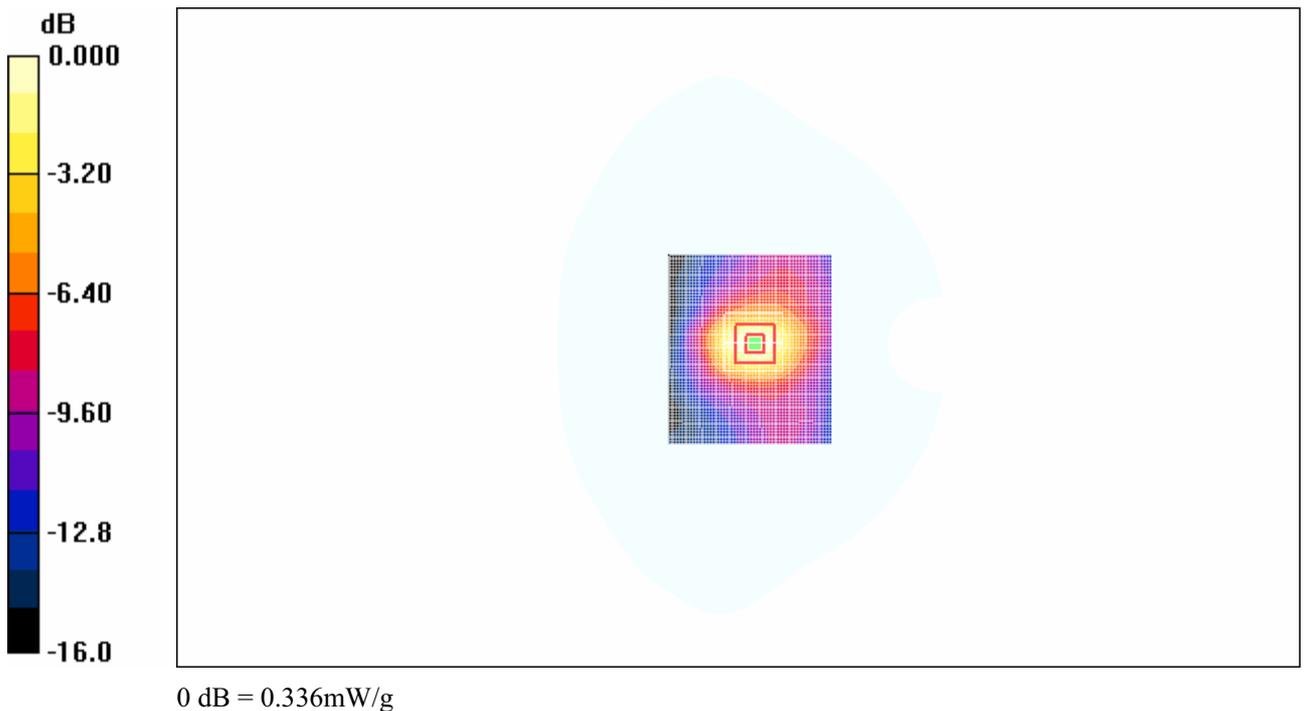
Fig.167 1900MHz GPRS CH661 Test Position 8
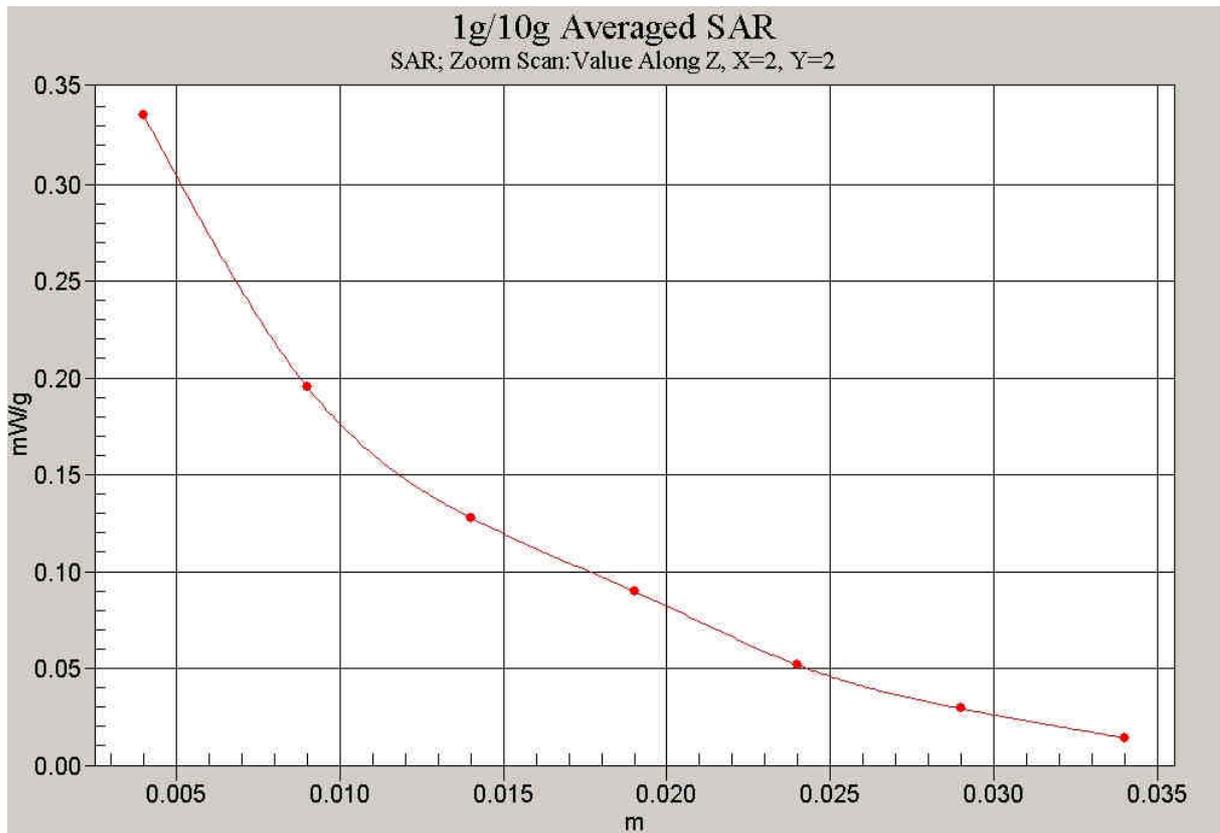
Fig.168 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 8)

1900MHz GPRS Test Position 1 with HP Laptop-antenna retracted
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; $ε_r$ = 52.1; ρ = 1000 kg/m^3
Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 1/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.517 mW/g

Test Position 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,
dz=5mm
Reference Value = 13.3 V/m; Power Drift = 0.099 dB
Peak SAR (extrapolated) = 0.873 W/kg
SAR(1 g) = 0.485 mW/g; SAR(10 g) = 0.262 mW/g
Maximum value of SAR (measured) = 0.545 mW/g

0 dB = 0.545mW/g
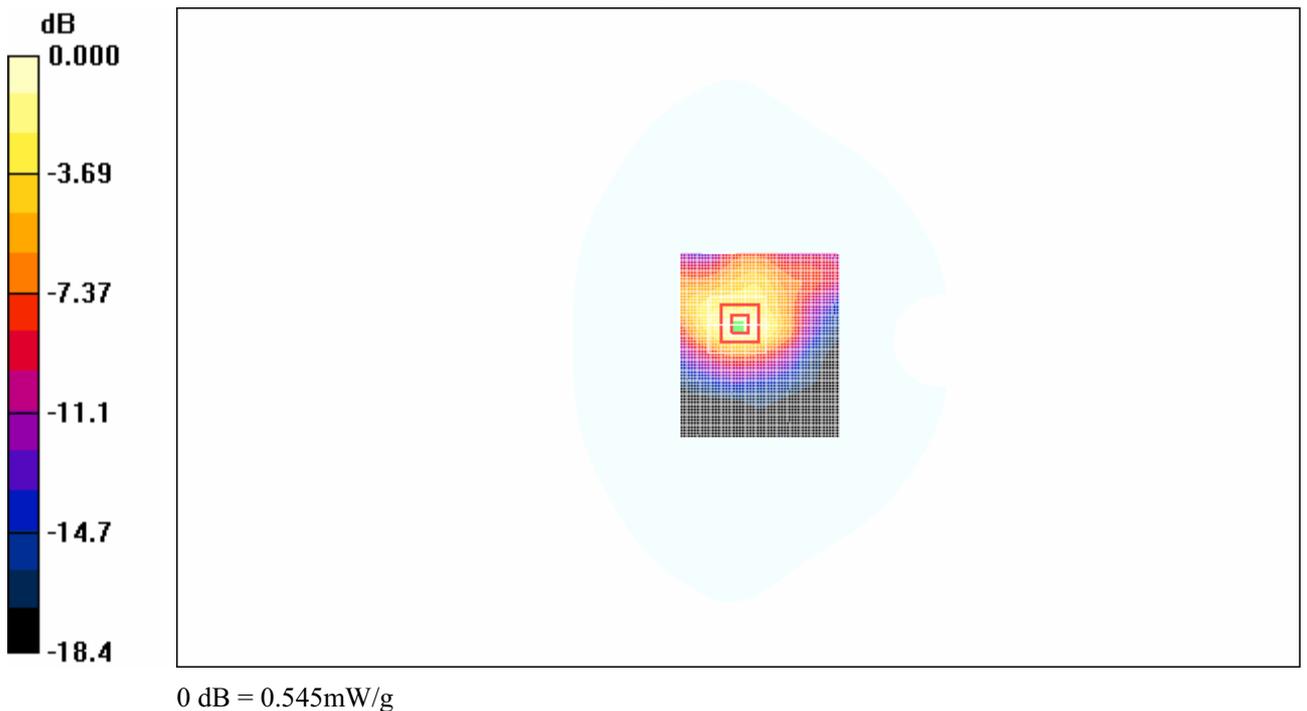
Fig.169 1900MHz GPRS CH661Test Position 1
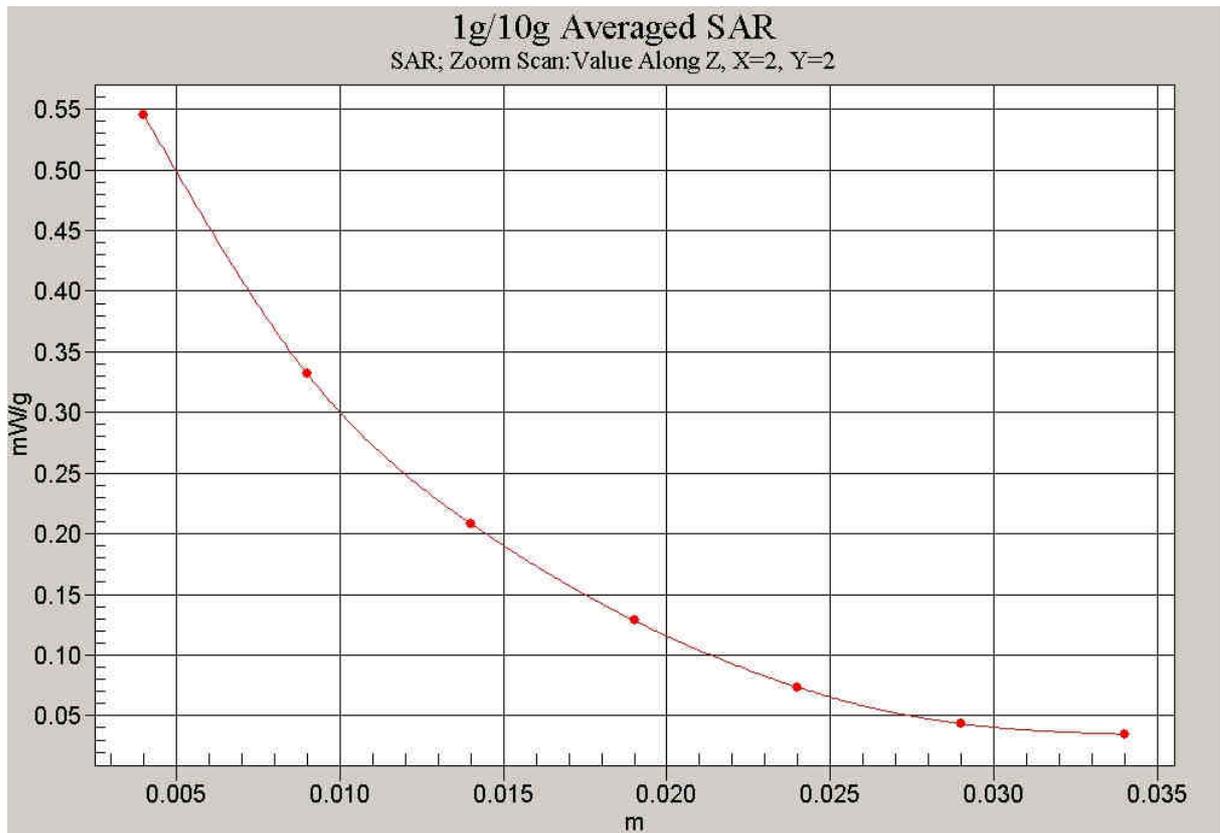
Fig.170 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 1)

1900 GPRS Test Position 2 with HP Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

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

Maximum value of SAR (interpolated) = 0.075 mW/g

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

Reference Value = 3.47 V/m; Power Drift = 0.200 dB

Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.042 mW/g

Maximum value of SAR (measured) = 0.073 mW/g

0 dB = 0.073mW/g
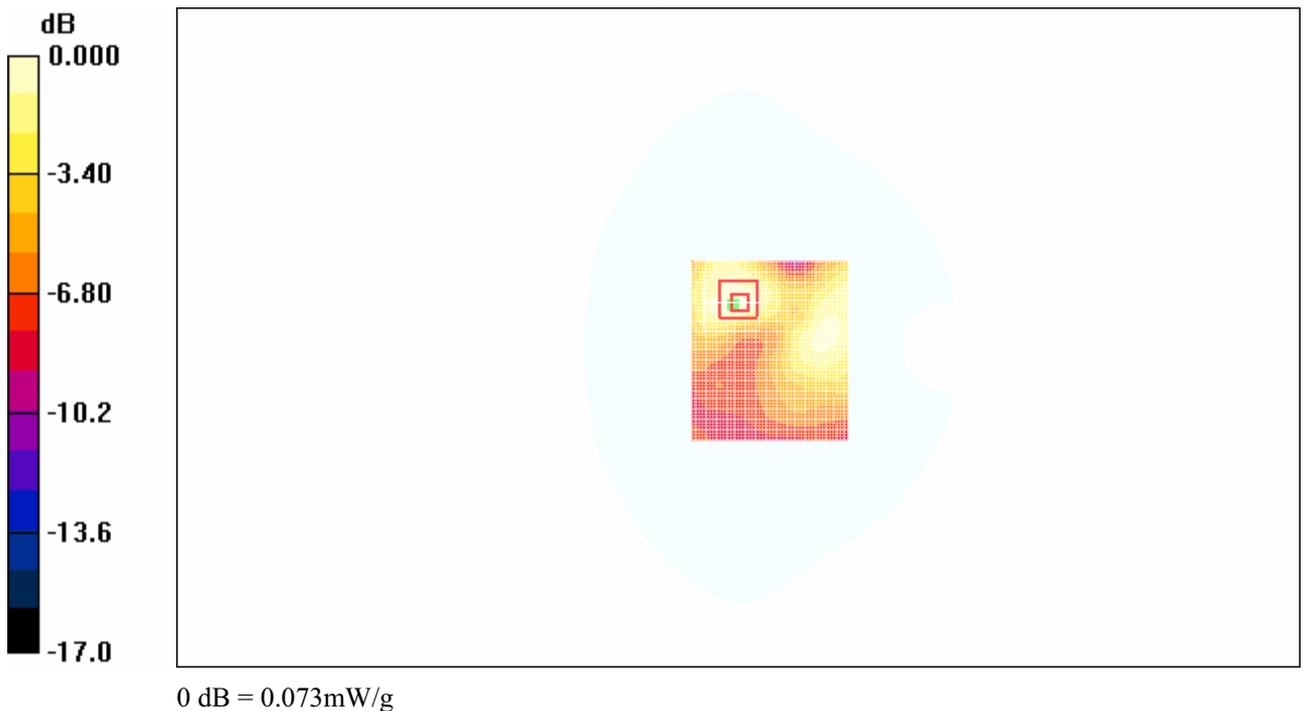
Fig.171 1900MHz GPRS CH661Test Position 2

Fig.172 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 2)

1900 GPRS Test Position 3 with HP Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 3/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.641 mW/g

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

Reference Value = 15.7 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.560 mW/g; SAR(10 g) = 0.292 mW/g

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

0 dB = 0.630mW/g
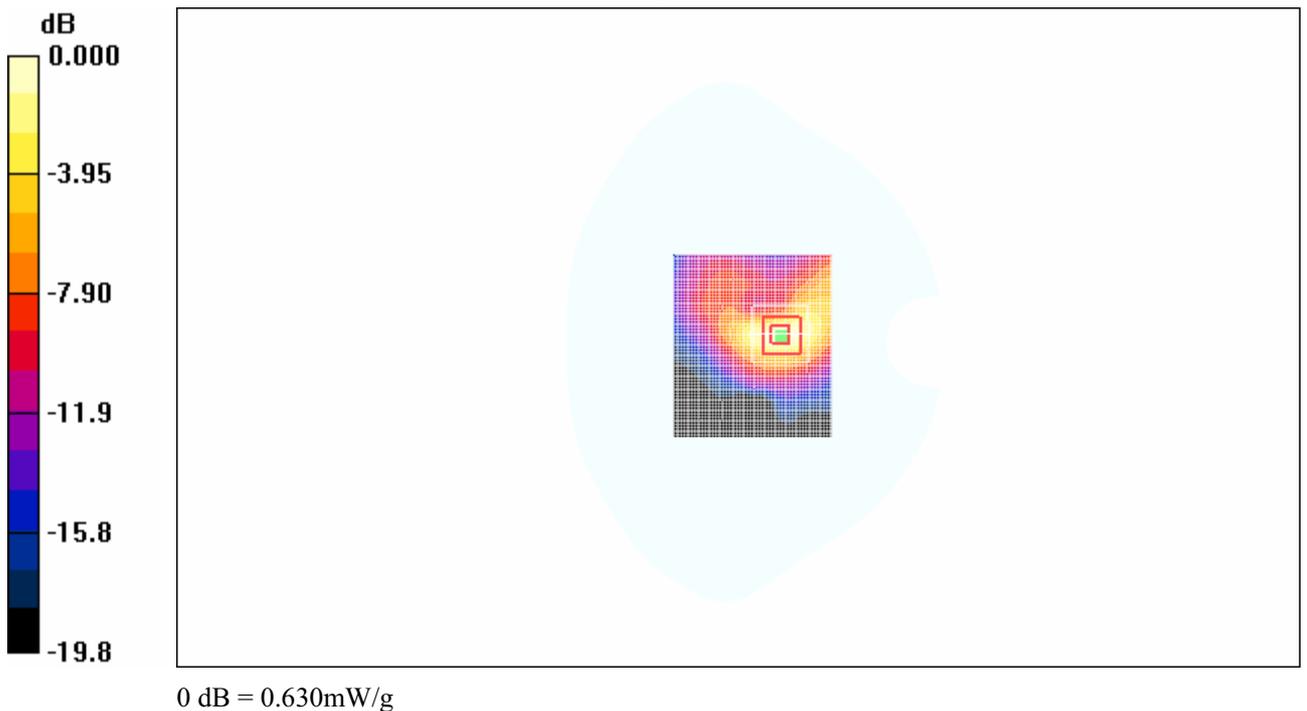
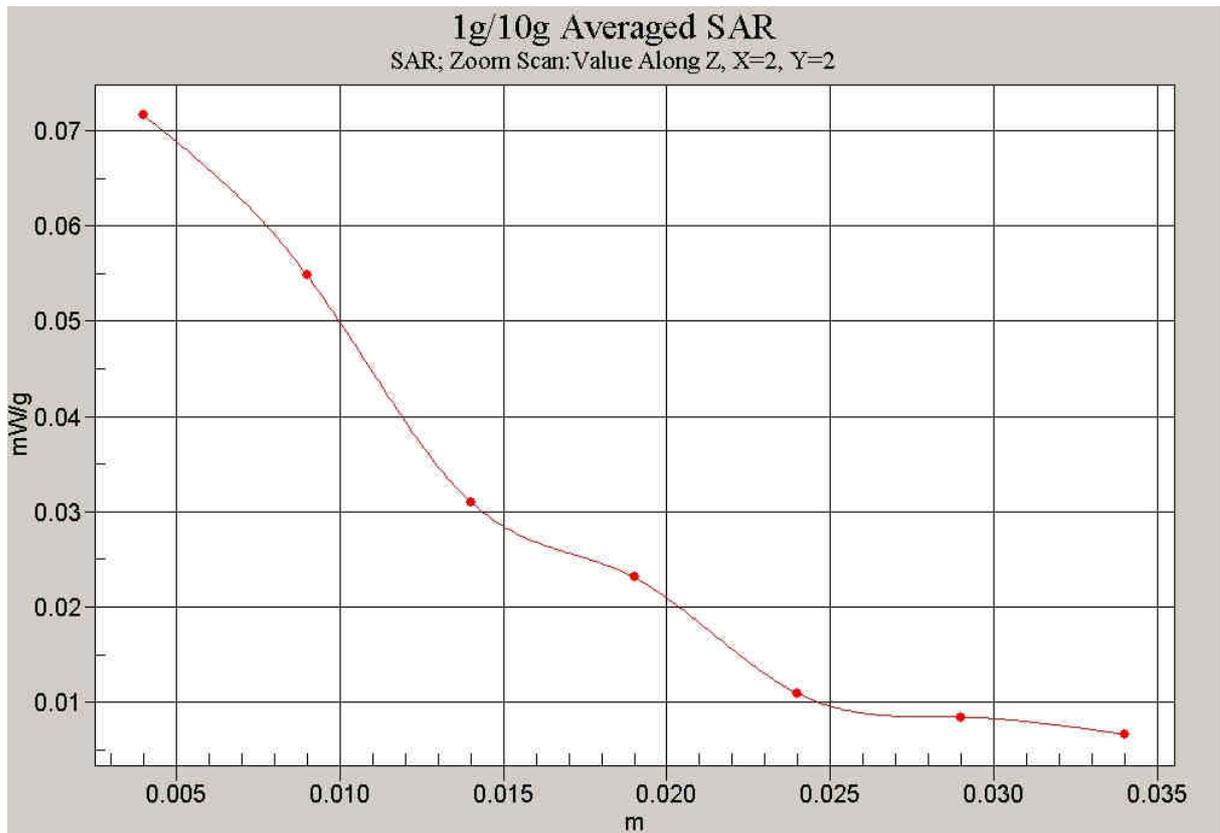**Fig.173 1900MHz GPRS CH661Test Position 3**

Fig.174 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 3)

1900 GPRS Test Position 4 with HP Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 4/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.318 mW/g

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

Reference Value = 11.0 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.169 mW/g

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

0 dB = 0.319mW/g
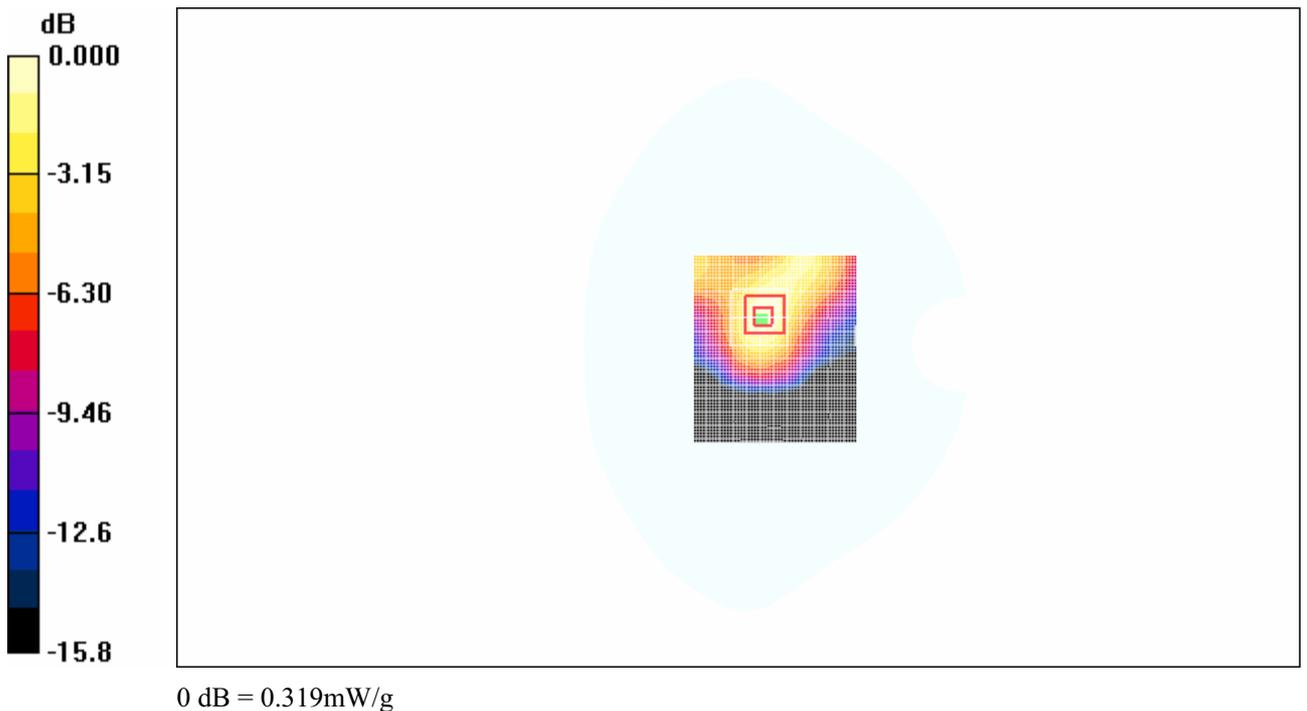
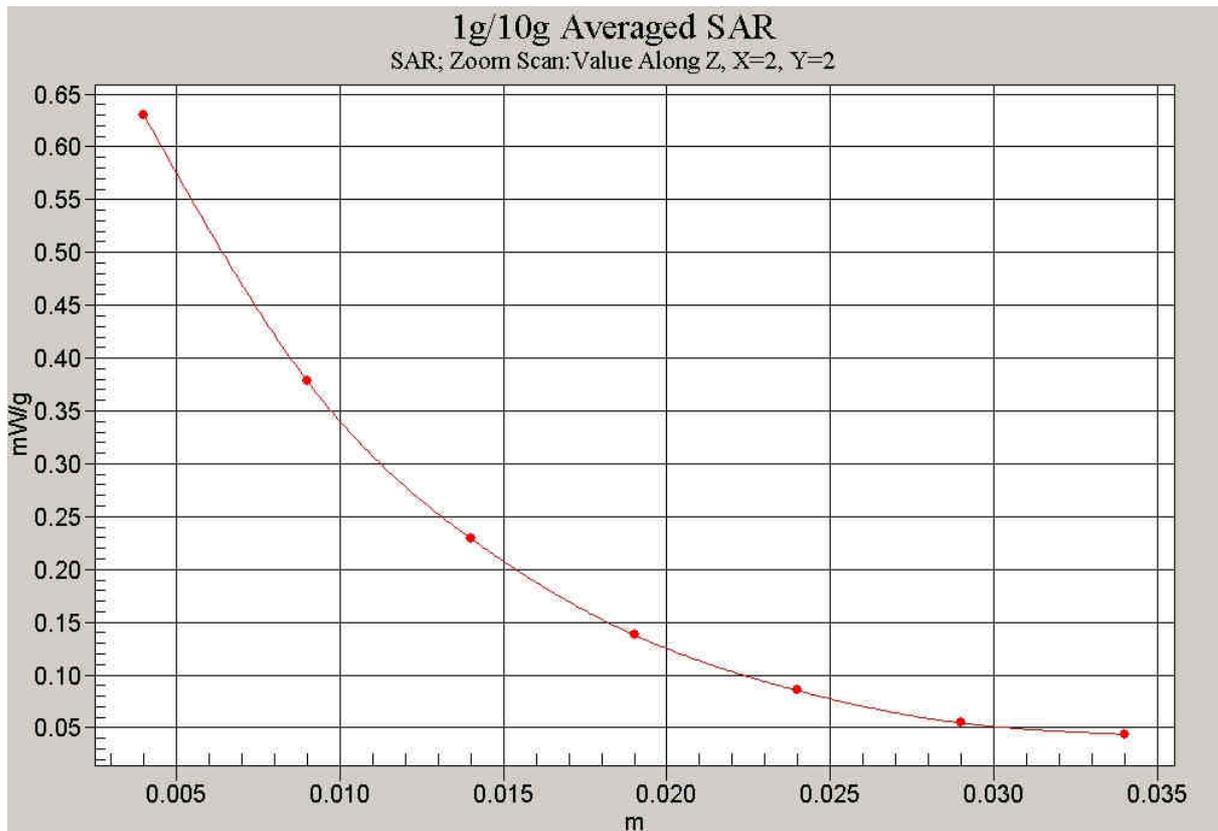**Fig.175 1900MHz GPRS CH661Test Position 4**

Fig.176 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 4)

1900 GPRS Test Position 5 with HP Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 5/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.708 mW/g

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

Reference Value = 16.3 V/m; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.987 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.301 mW/g

Maximum value of SAR (measured) = 0.618 mW/g

0 dB = 0.618mW/g
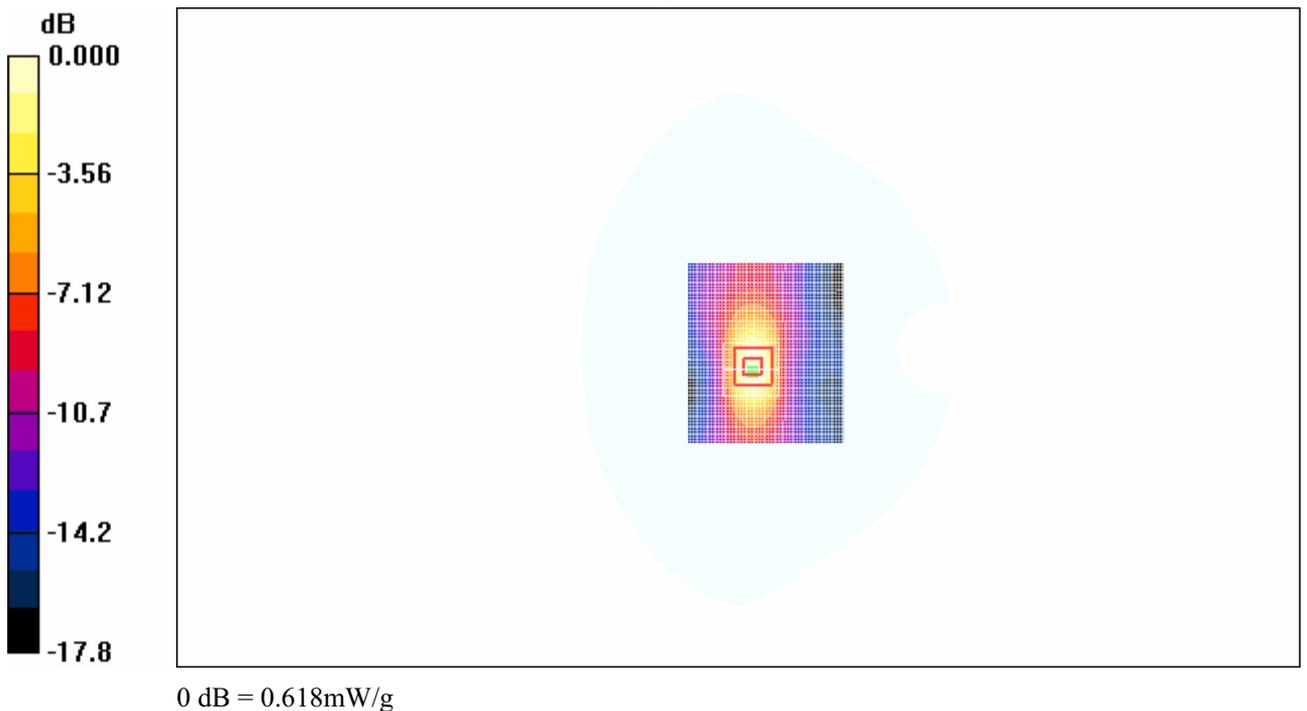
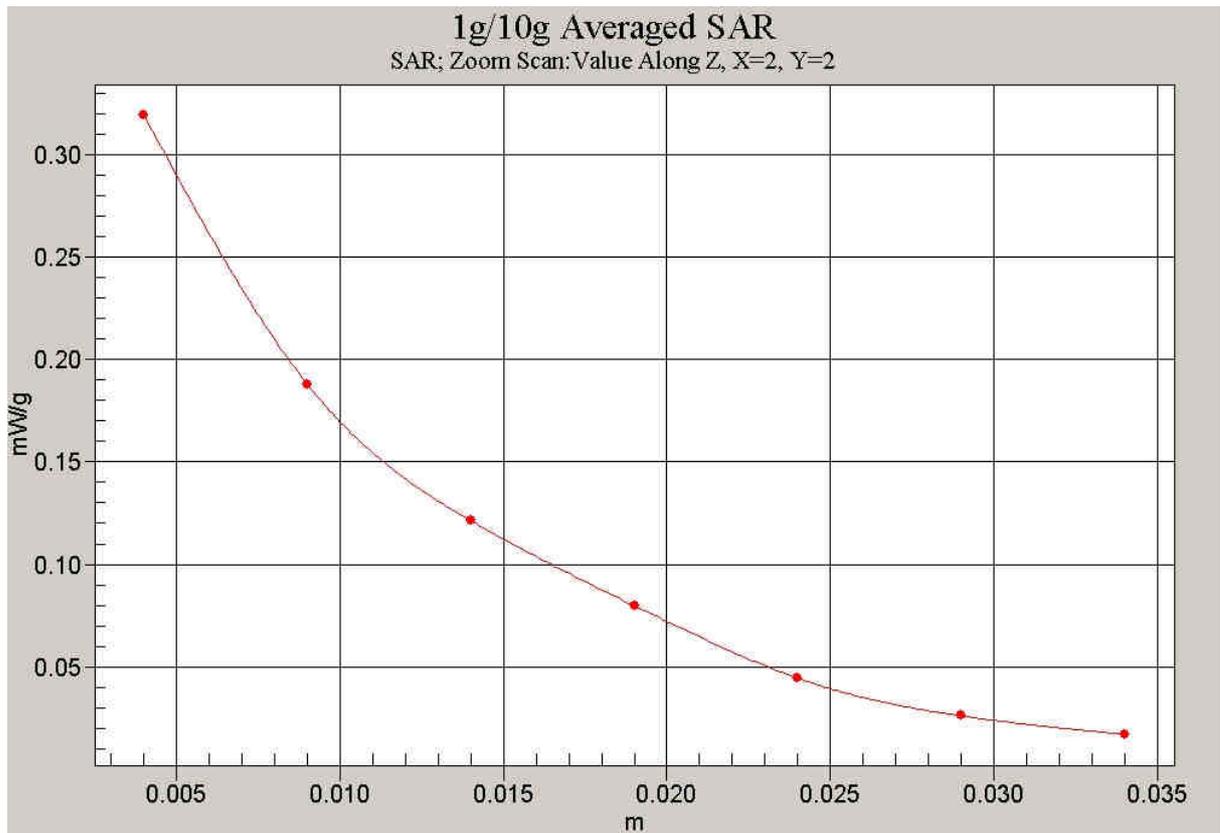**Fig.177 1900MHz GPRS CH661 Test Position 5**

Fig.178 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 5)

1900 GPRS Test Position 6 with HP Laptop-antenna retracted
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 6/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.485 mW/g

Test Position 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.5 V/m; Power Drift = -0.046 dB
Peak SAR (extrapolated) = 0.736 W/kg
SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.240 mW/g
Maximum value of SAR (measured) = 0.465 mW/g

0 dB = 0.465mW/g
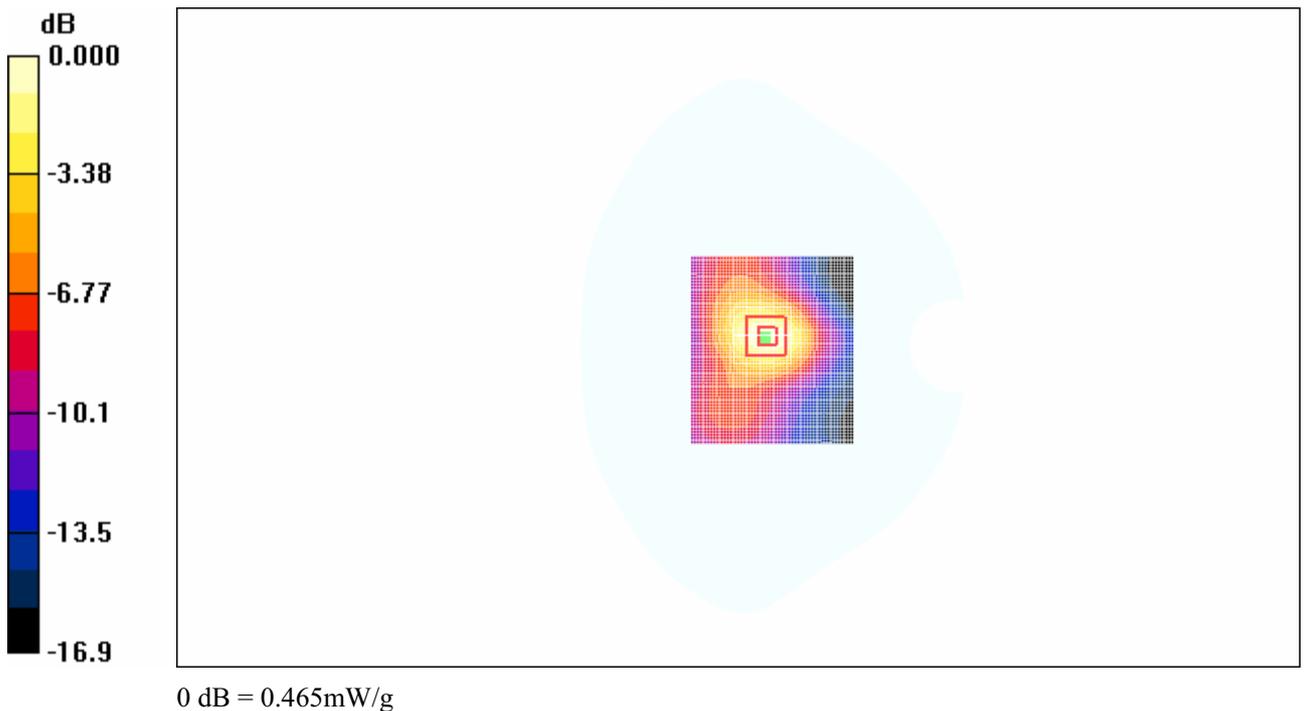
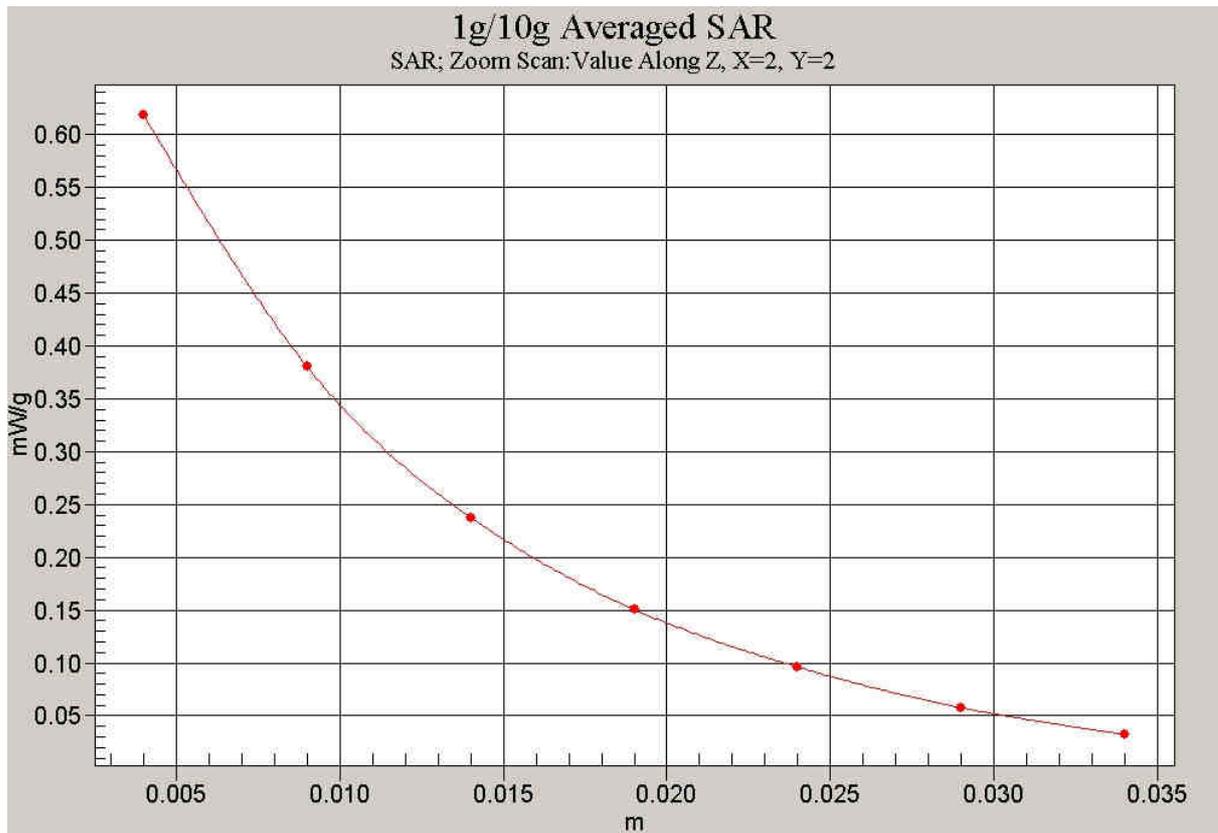**Fig.179 1900MHz GPRS CH661 Test Position 6**

Fig.180 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 6)

1900 GPRS Test Position 7 with HP Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; $ε_r$ = 52.1; ρ = 1000 kg/m³

Ambient Temperature:23.3°C   Liqiud Temperature: 22.5°C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 7/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 19.1 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.734 mW/g; SAR(10 g) = 0.393 mW/g

Maximum value of SAR (measured) = 0.808 mW/g

0 dB = 0.808mW/g
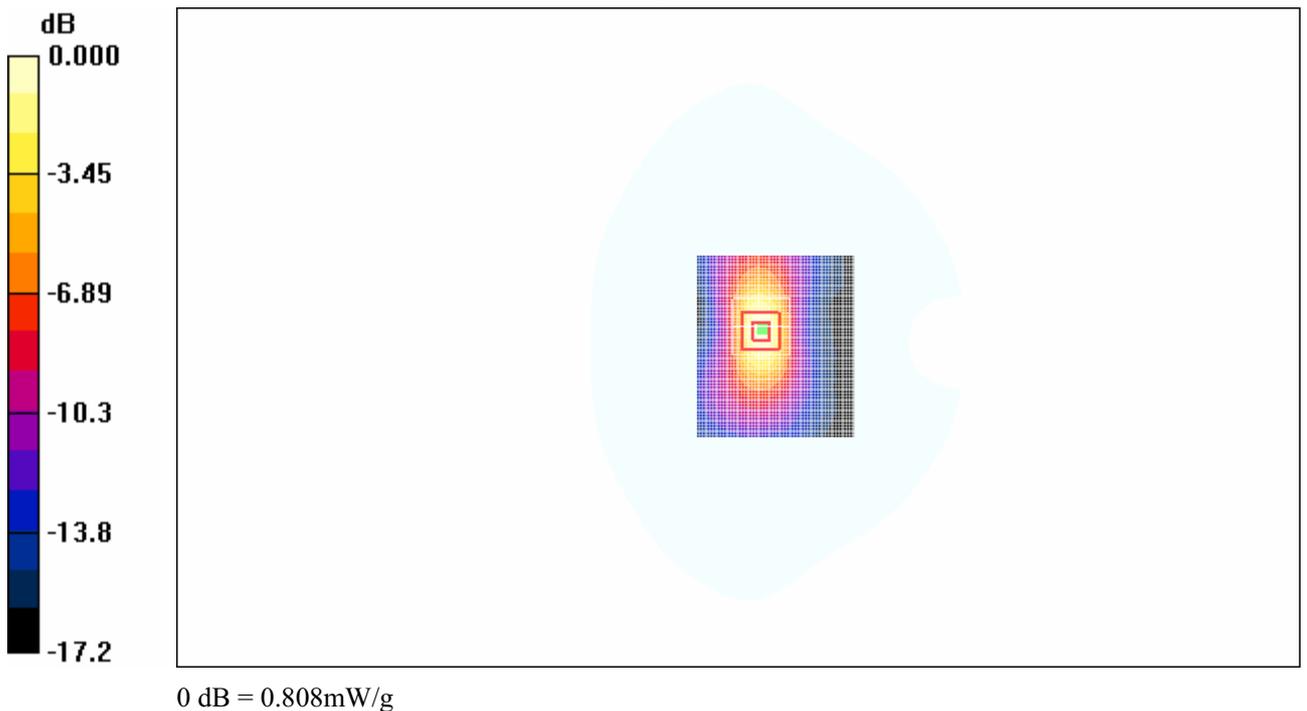
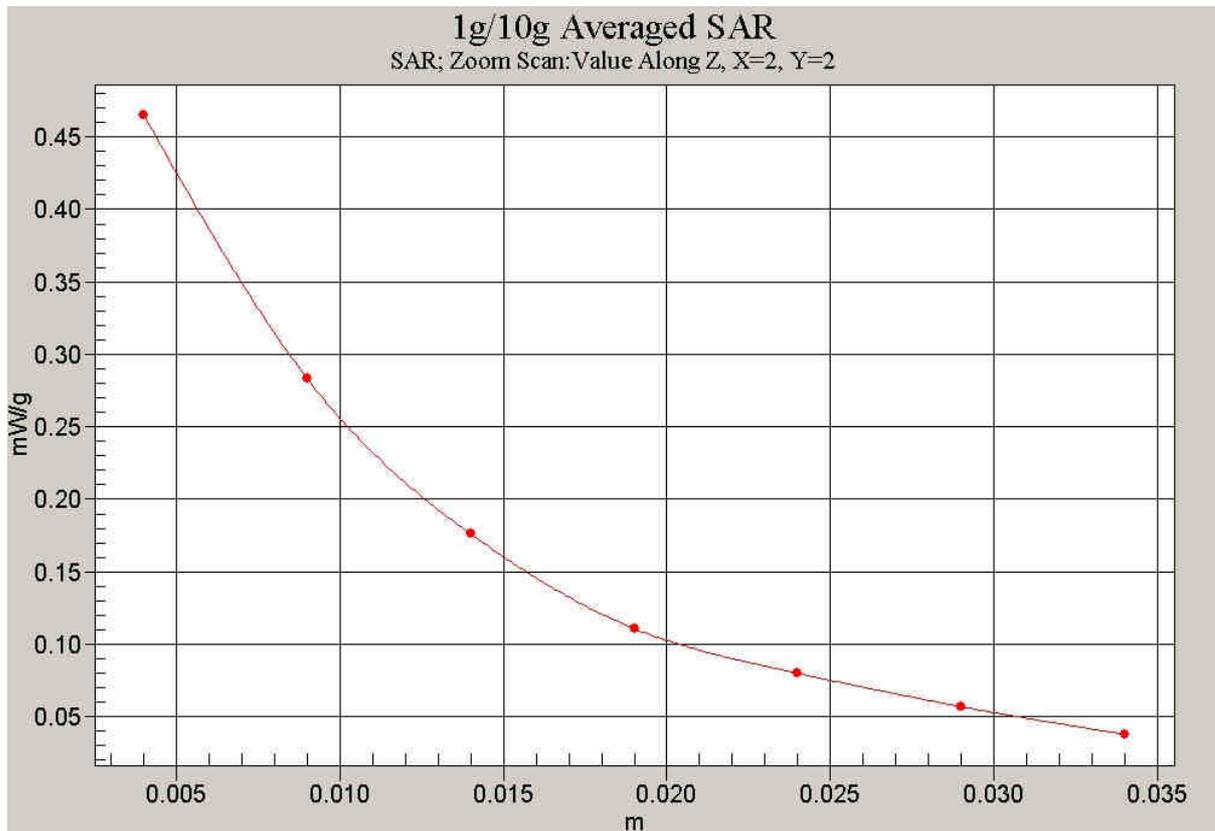**Fig.181 1900MHz GPRS CH661 Test Position 7**

Fig.182 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 7)

1900 GPRS Test Position 8 with HP Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 8/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.417 mW/g

Test Position 8/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.5 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.650 W/kg

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

Maximum value of SAR (measured) = 0.397 mW/g

0 dB = 0.397mW/g
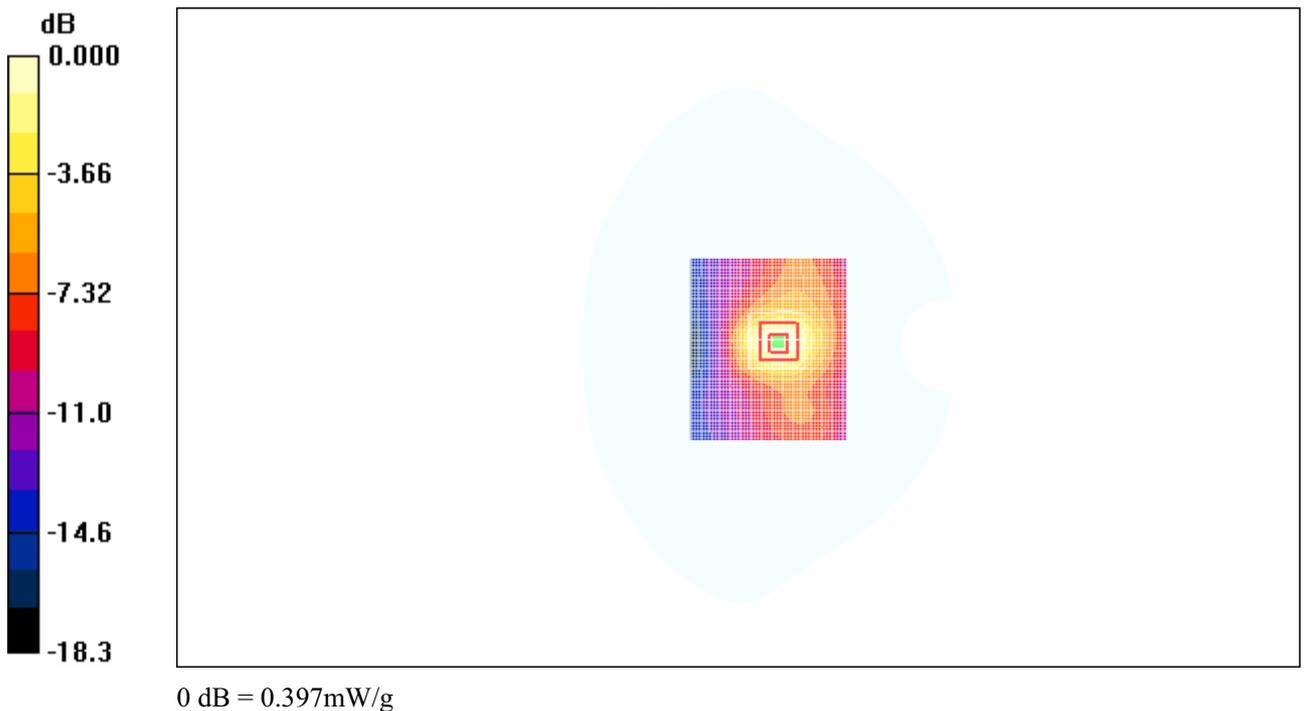
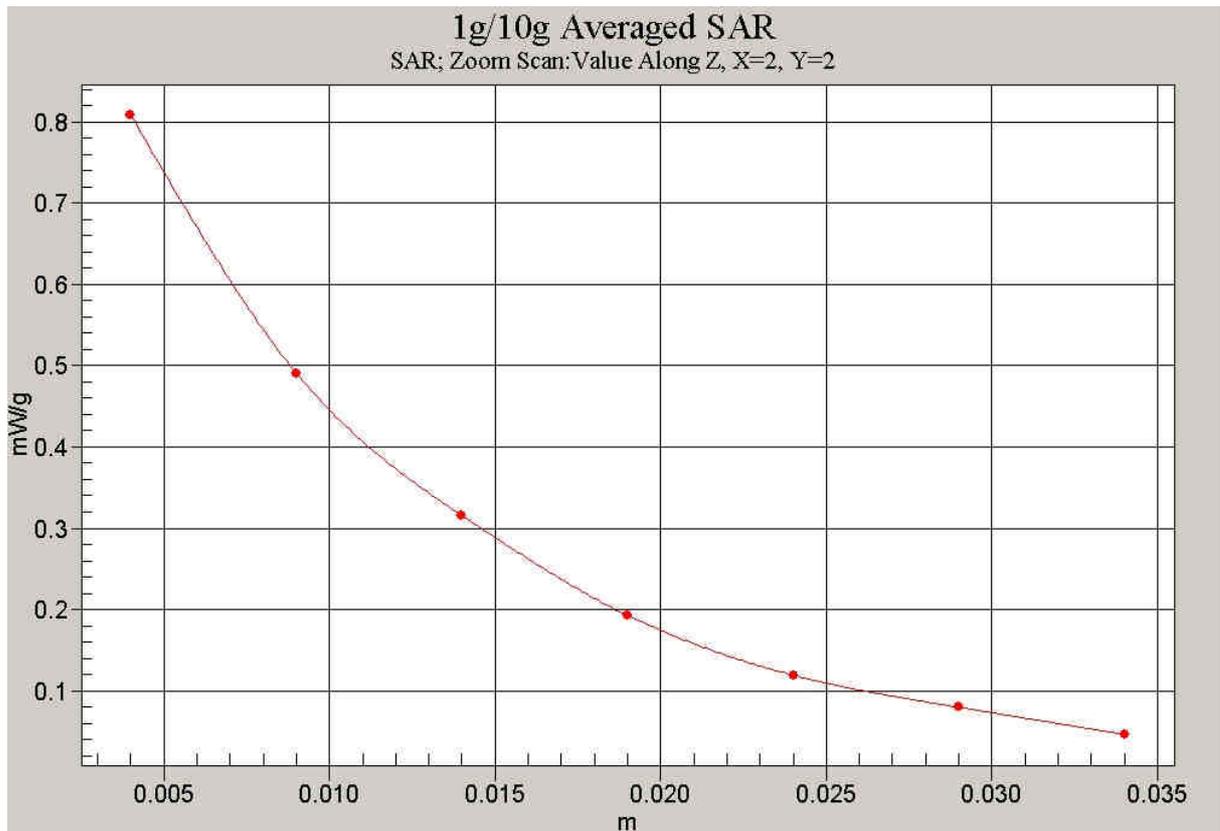**Fig.183 1900MHz GPRS CH661 Test Position 8**

Fig.184 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 8)

1900MHz GPRS Test Position 1 with IBM Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

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

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

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

Reference Value = 8.30 V/m; Power Drift = 0.115 dB

Peak SAR (extrapolated) = 0.235 W/kg

SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.069 mW/g

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

0 dB = 0.159mW/g
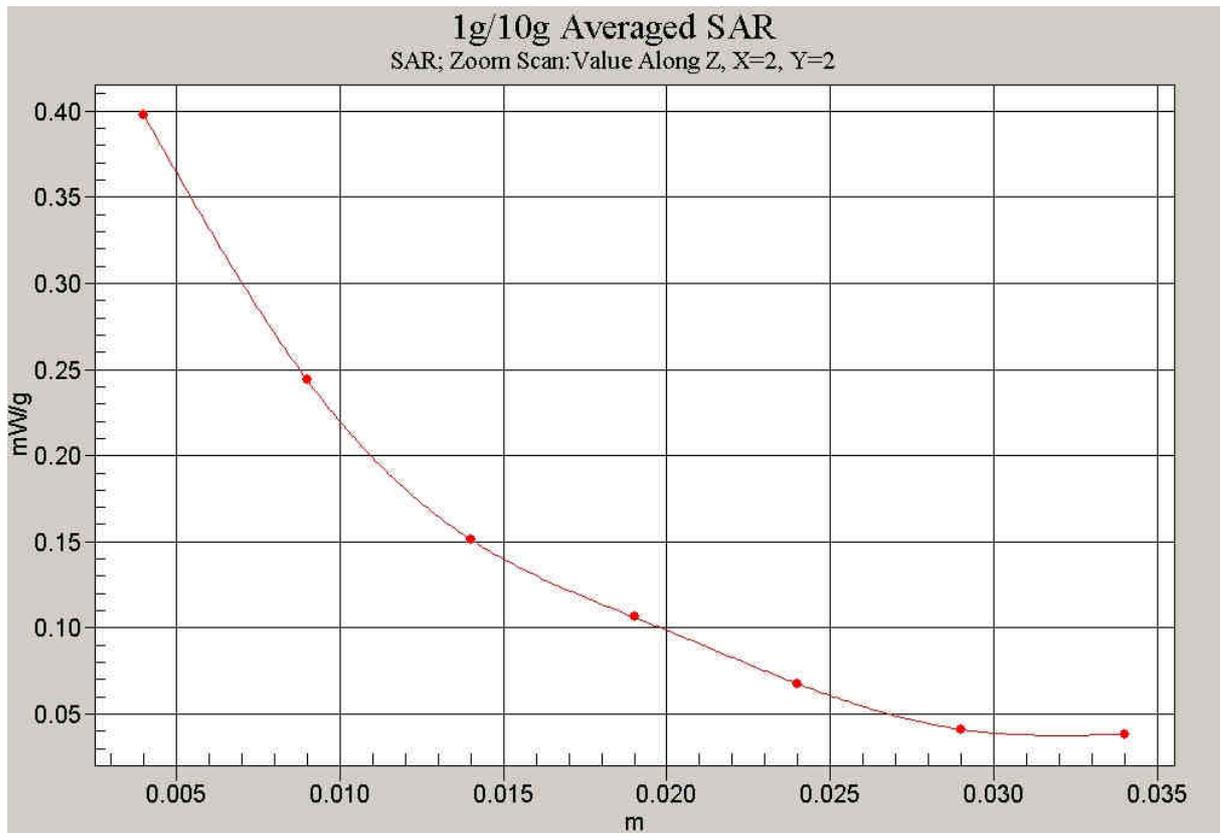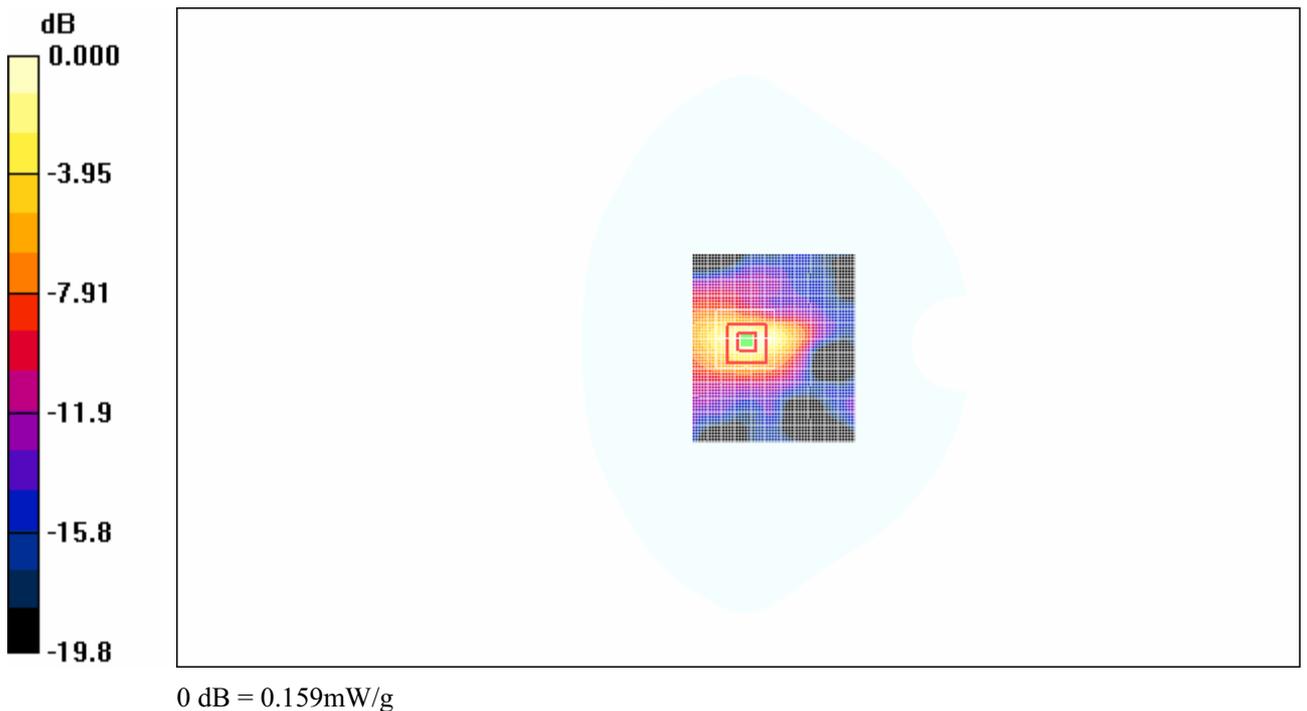
Fig.185 1900MHz GPRS CH661Test Position 1

Fig.186 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 1)

1900 GPRS Test Position 2 with IBM Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

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

Maximum value of SAR (interpolated) = 0.047 mW/g

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

Reference Value = 4.25 V/m; Power Drift = -0.200 dB

Peak SAR (extrapolated) = 0.065 W/kg

SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.048 mW/g

0 dB = 0.048mW/g
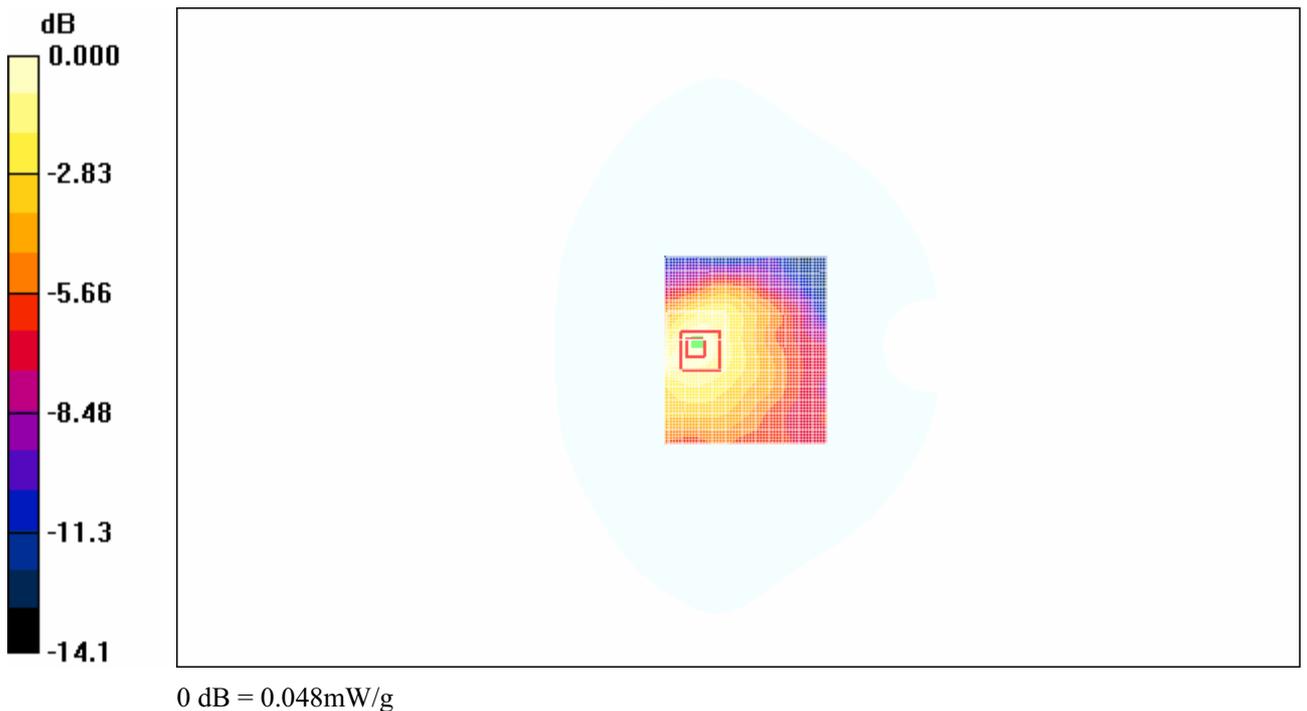
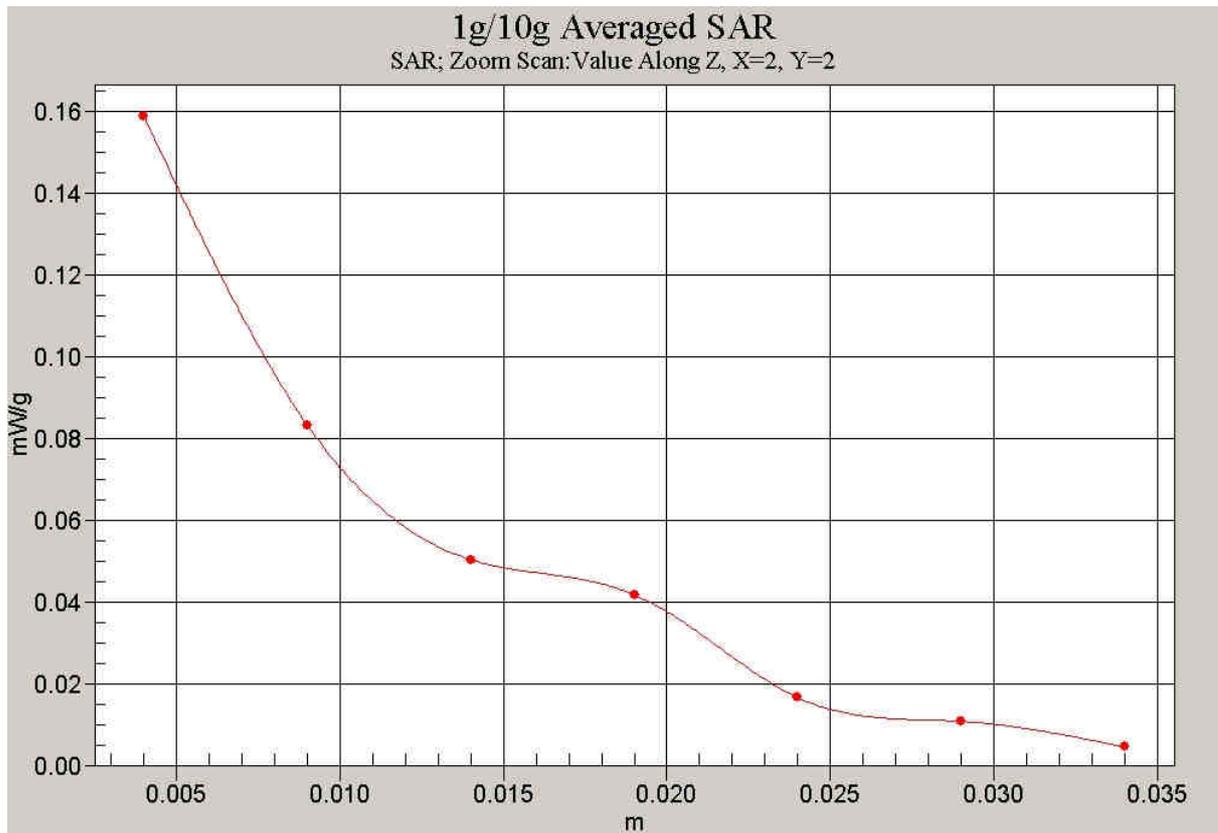**Fig.187 1900MHz GPRS CH661Test Position 2**

Fig.188 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 2)

1900 GPRS Test Position 3 with IBM Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 3/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.208 mW/g

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

Reference Value = 10.5 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.398 W/kg

SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.099 mW/g

Maximum value of SAR (measured) = 0.209 mW/g

0 dB = 0.209mW/g
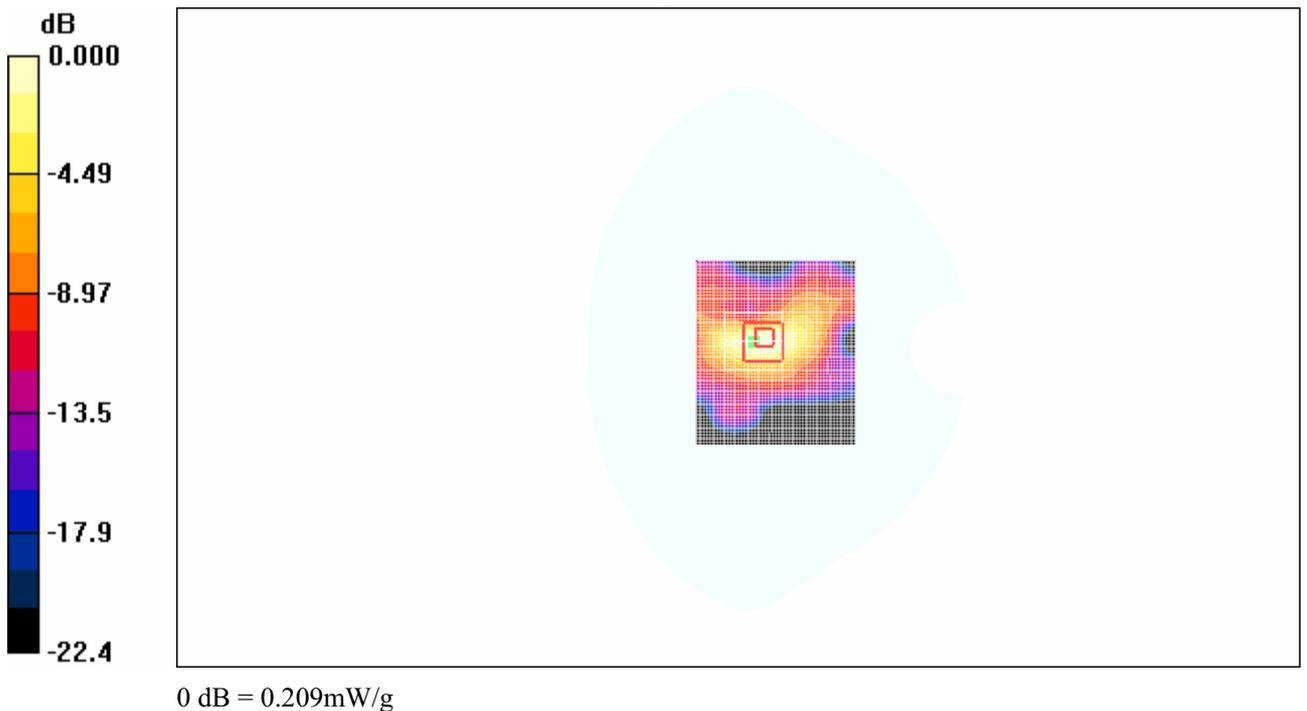
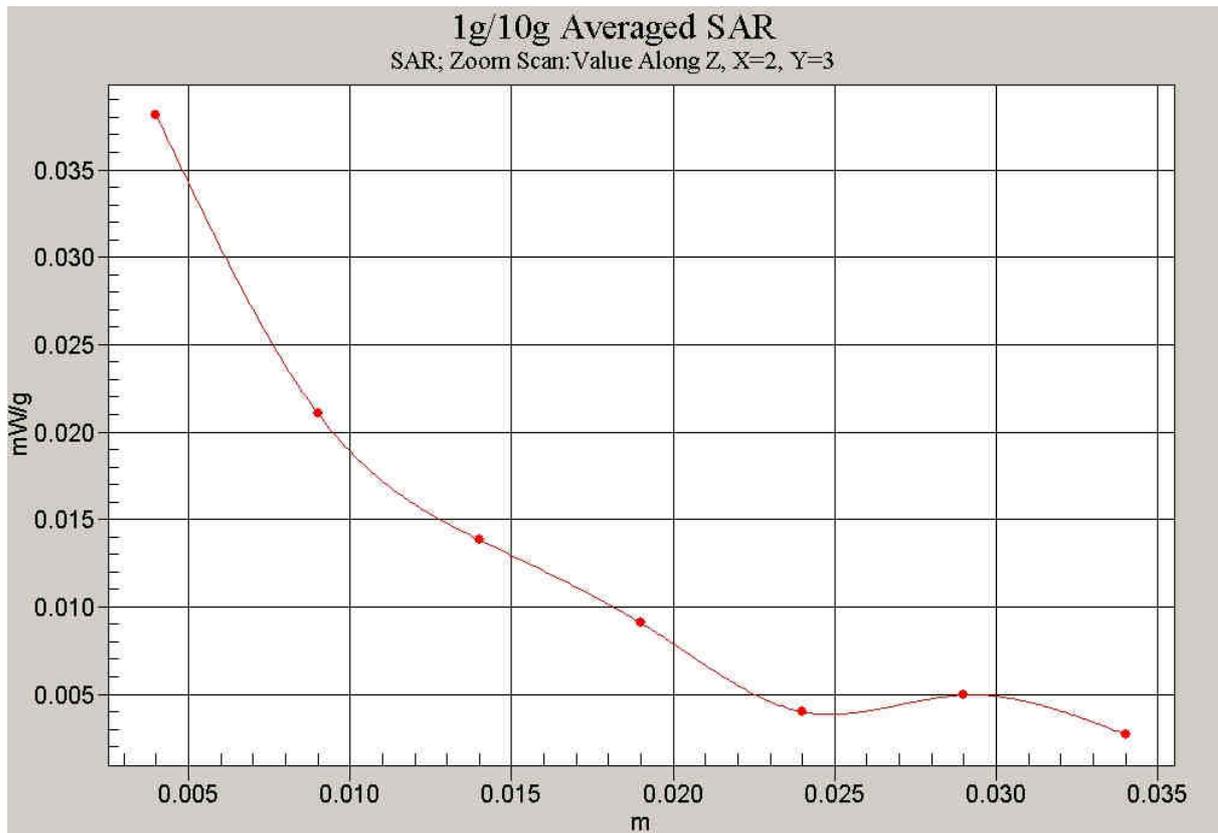**Fig.189 1900MHz GPRS CH661Test Position 3**

Fig.190 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 3)

1900 GPRS Test Position 4 with IBM Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 4/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.313 mW/g

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

Reference Value = 12.7 V/m; Power Drift = -0.046 dB

Peak SAR (extrapolated) = 0.517 W/kg

SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.171 mW/g

Maximum value of SAR (measured) = 0.318 mW/g

0 dB = 0.318mW/g

Fig.191 1900MHz GPRS CH661Test Position 4

Fig.192 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 4)

1900 GPRS Test Position 5 with IBM Laptop-antenna extended
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 5/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.241 mW/g

Test Position 5/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.9 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.320 W/kg
SAR(1 g) = 0.185 mW/g; SAR(10 g) = 0.098 mW/g
Maximum value of SAR (measured) = 0.209 mW/g

0 dB = 0.209mW/g

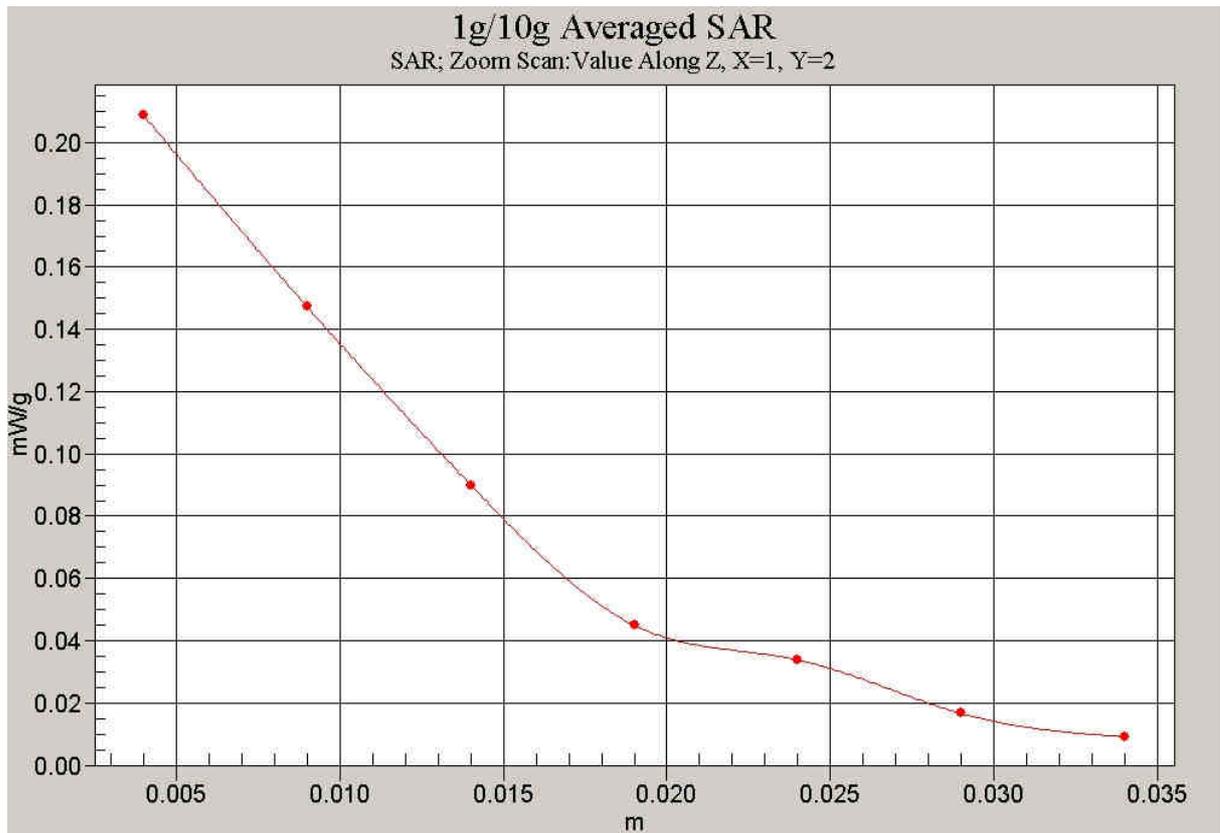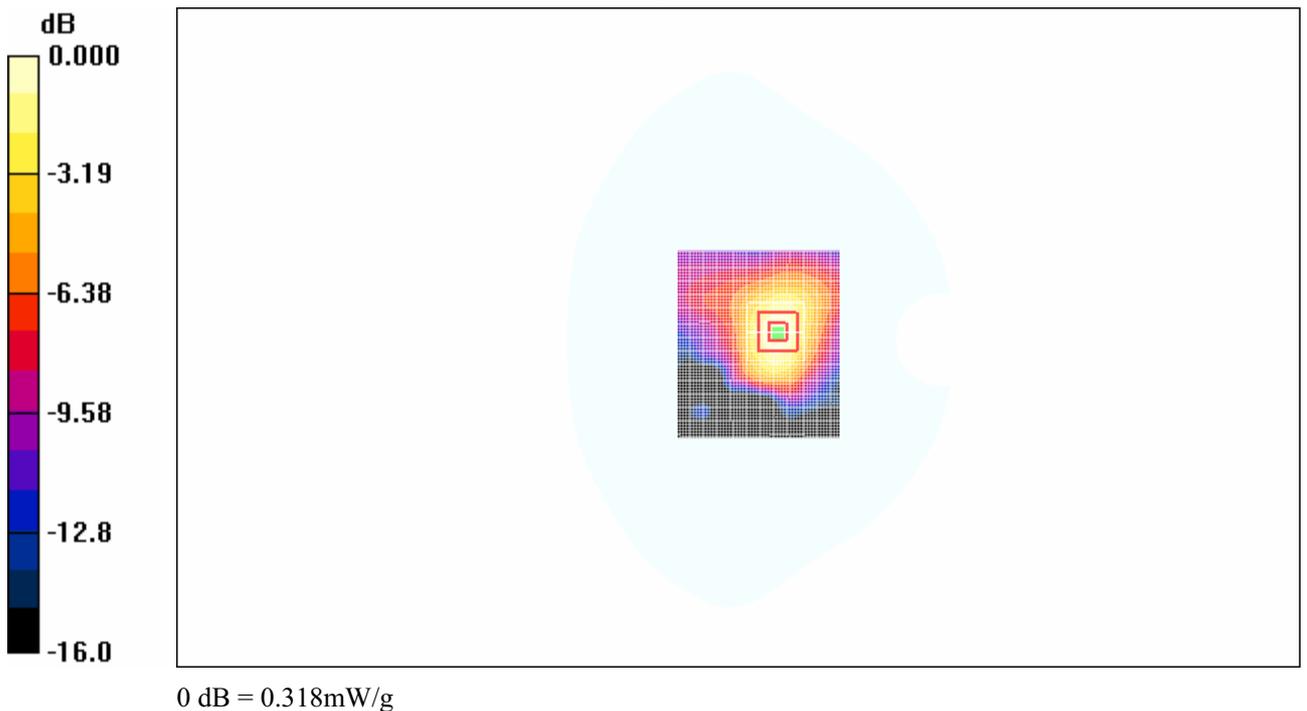**Fig.193 1900MHz GPRS CH661 Test Position 5**

Fig.194 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 5)

1900 GPRS Test Position 6 with IBM Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C　　　　Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 6/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.379 mW/g

Test Position 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.552 W/kg

SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.188 mW/g

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

0 dB = 0.373mW/g
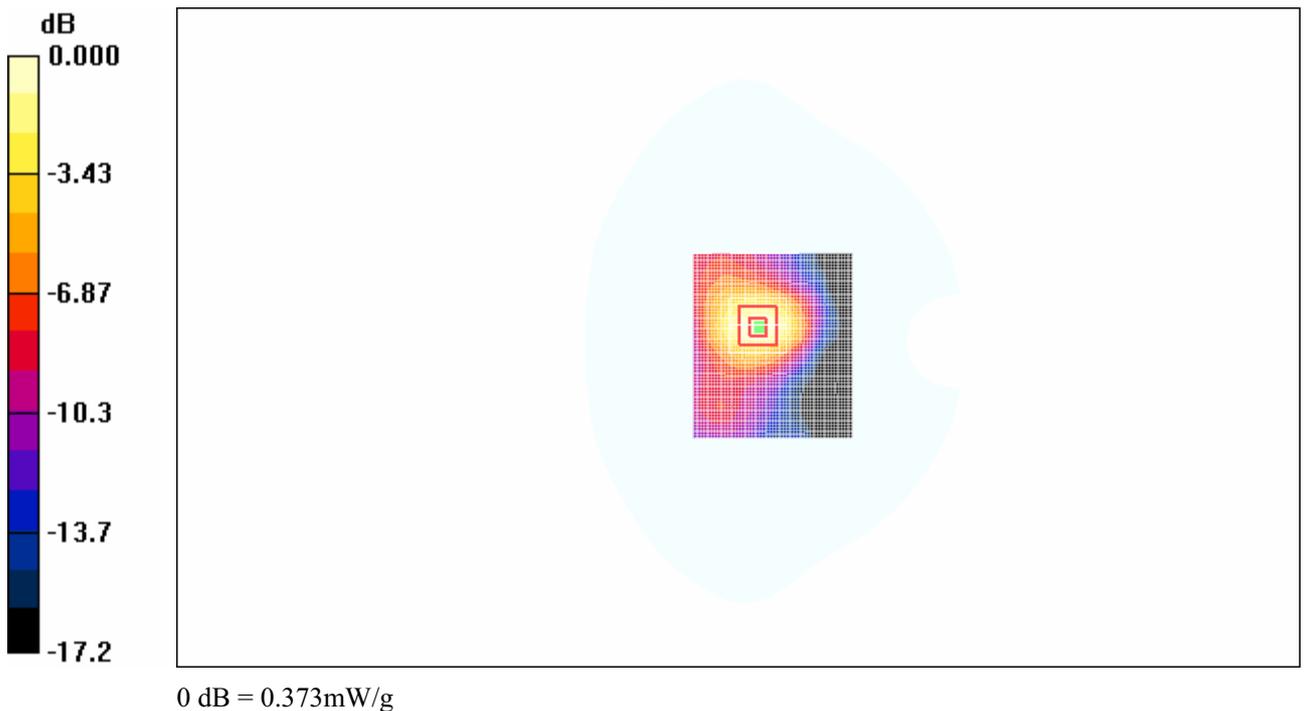
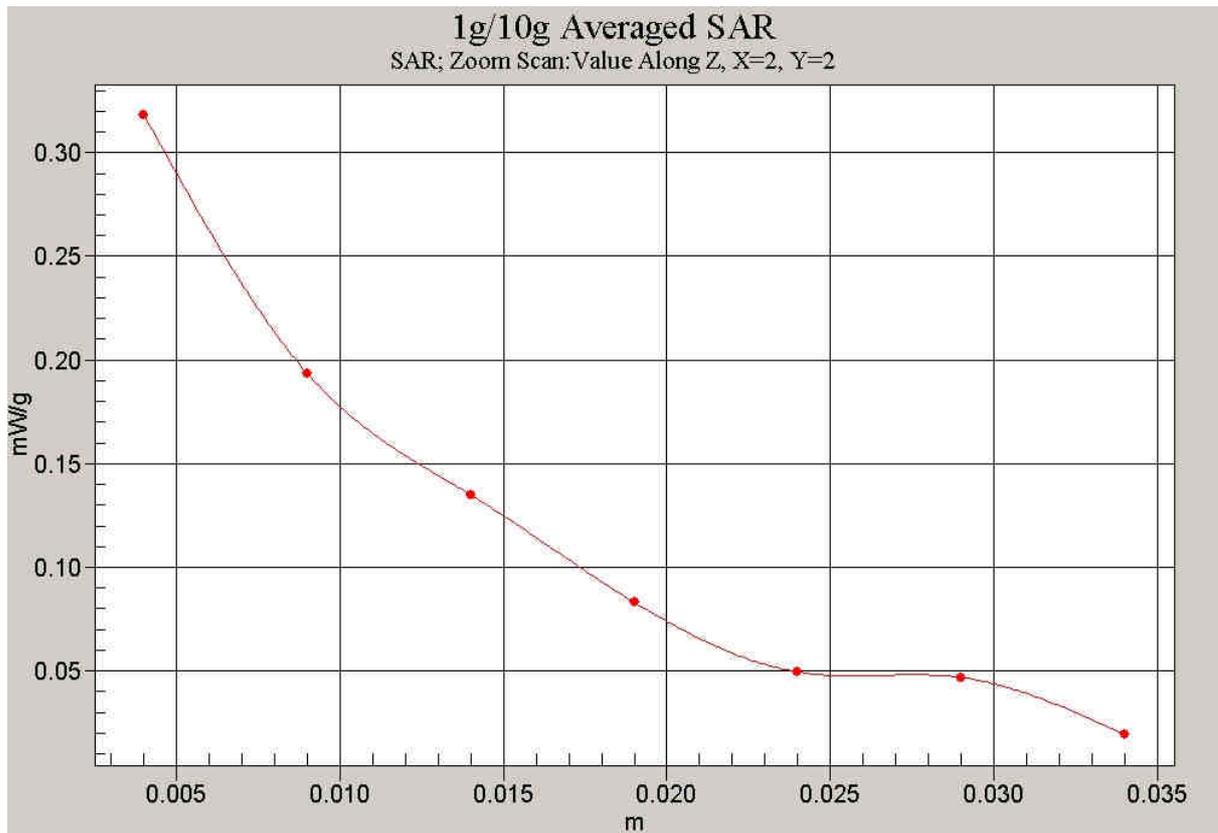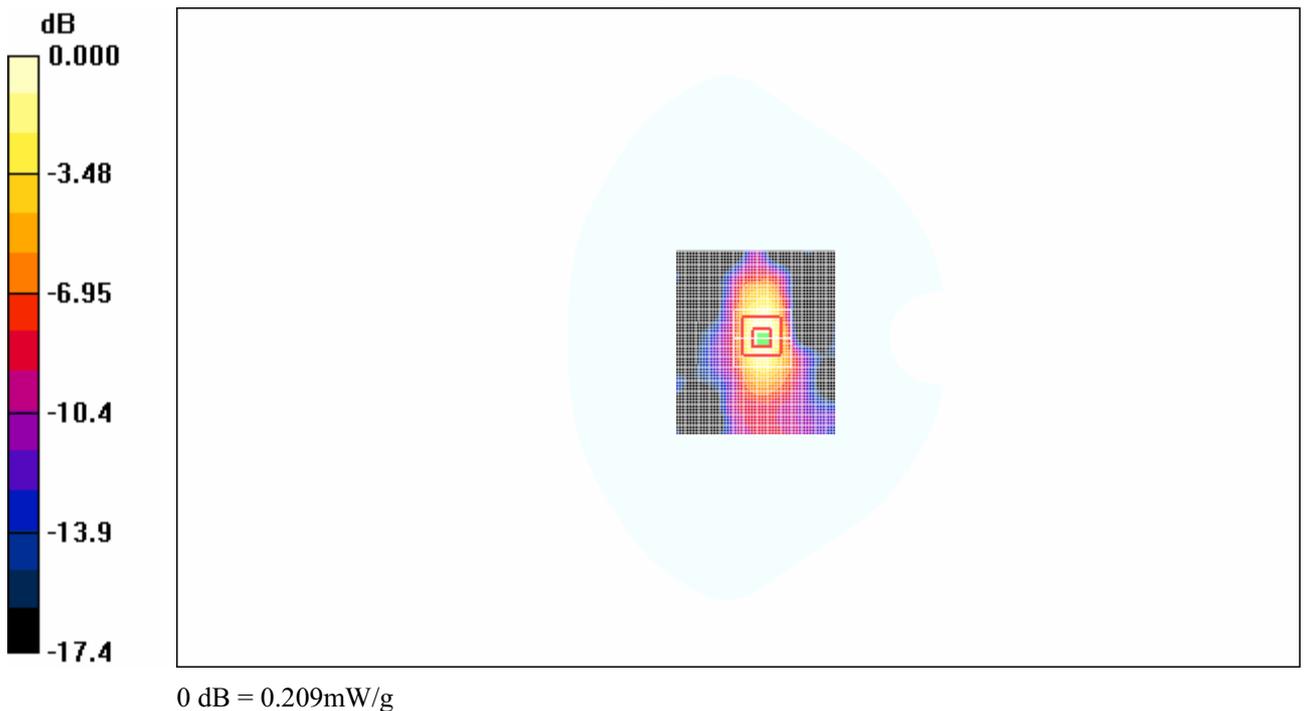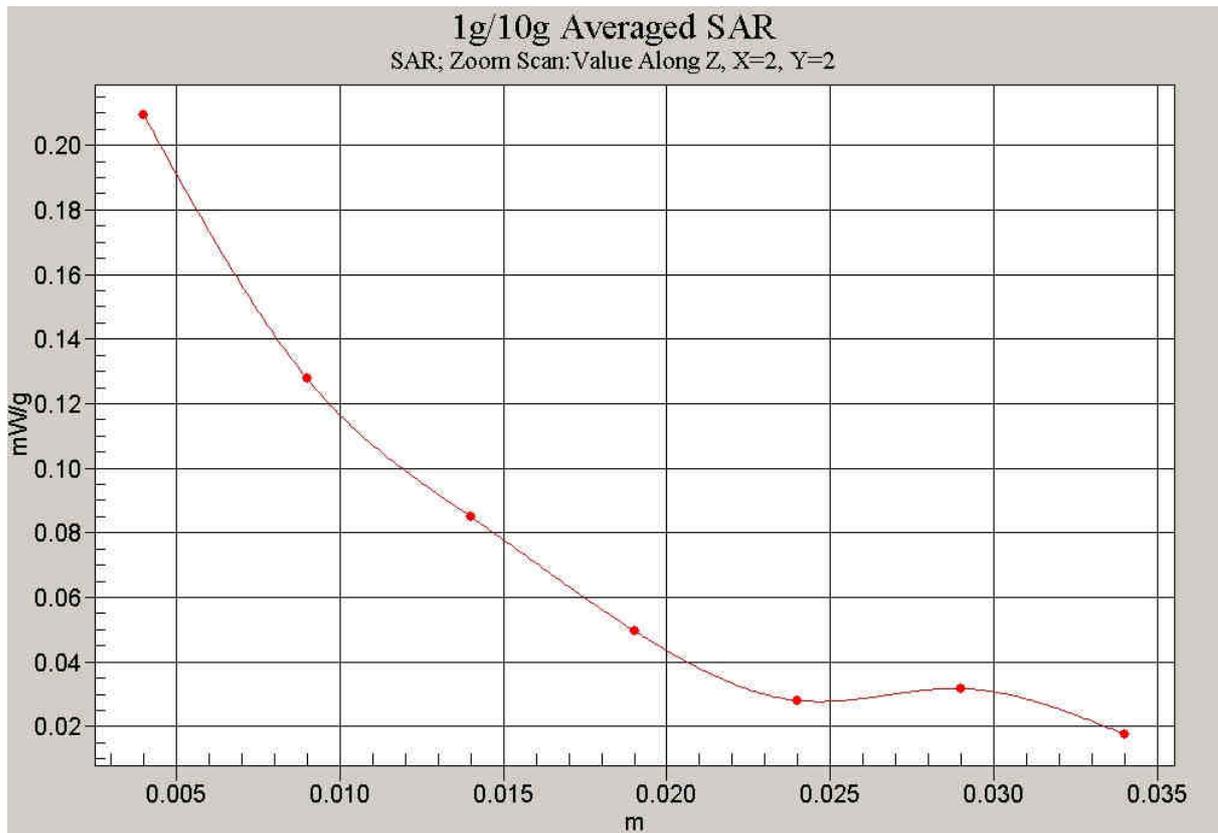**Fig.195 1900MHz GPRS CH661 Test Position 6**

Fig.196 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 6)

1900 GPRS Test Position 7 with IBM Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 7/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 12.8 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.332 mW/g; SAR(10 g) = 0.178 mW/g

Maximum value of SAR (measured) = 0.368 mW/g

0 dB = 0.368mW/g
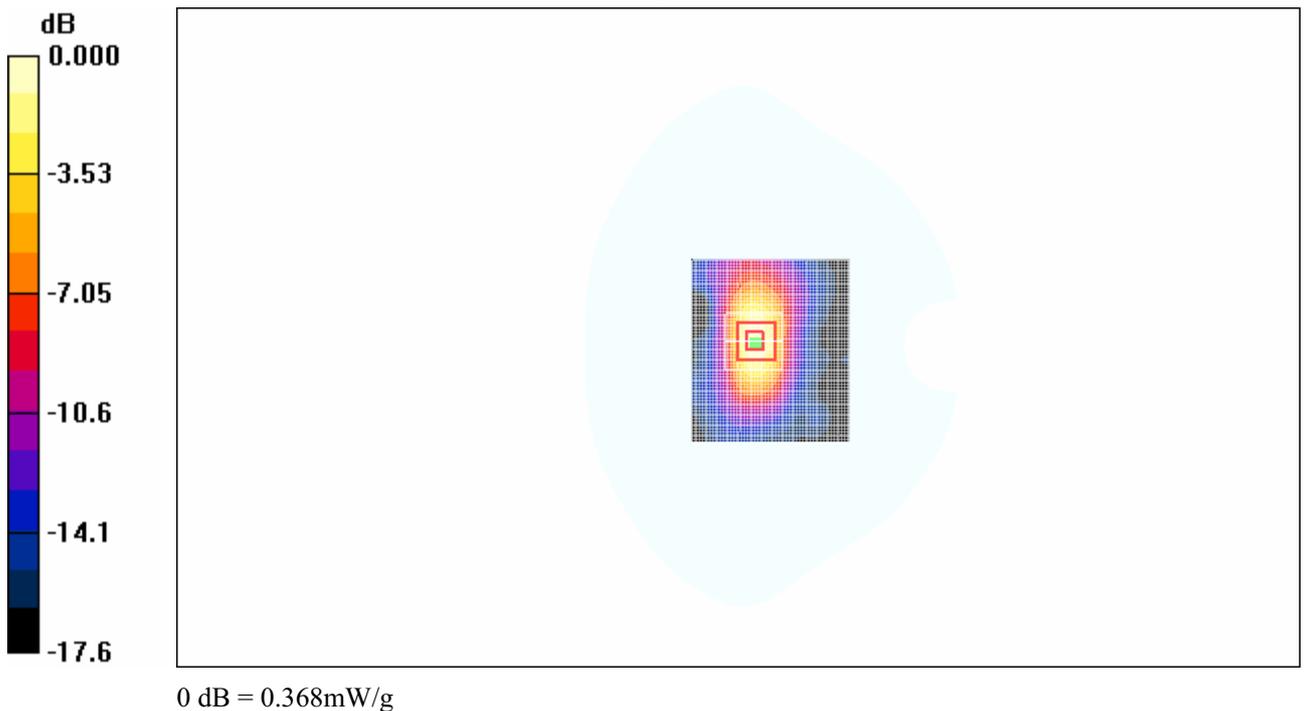
Fig.197 1900MHz GPRS CH661 Test Position 7

Fig.198 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 7)

1900 GPRS Test Position 8 with IBM Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 8/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.447 mW/g

Test Position 8/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.6 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.657 W/kg

SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.215 mW/g

Maximum value of SAR (measured) = 0.425 mW/g

0 dB = 0.425mW/g
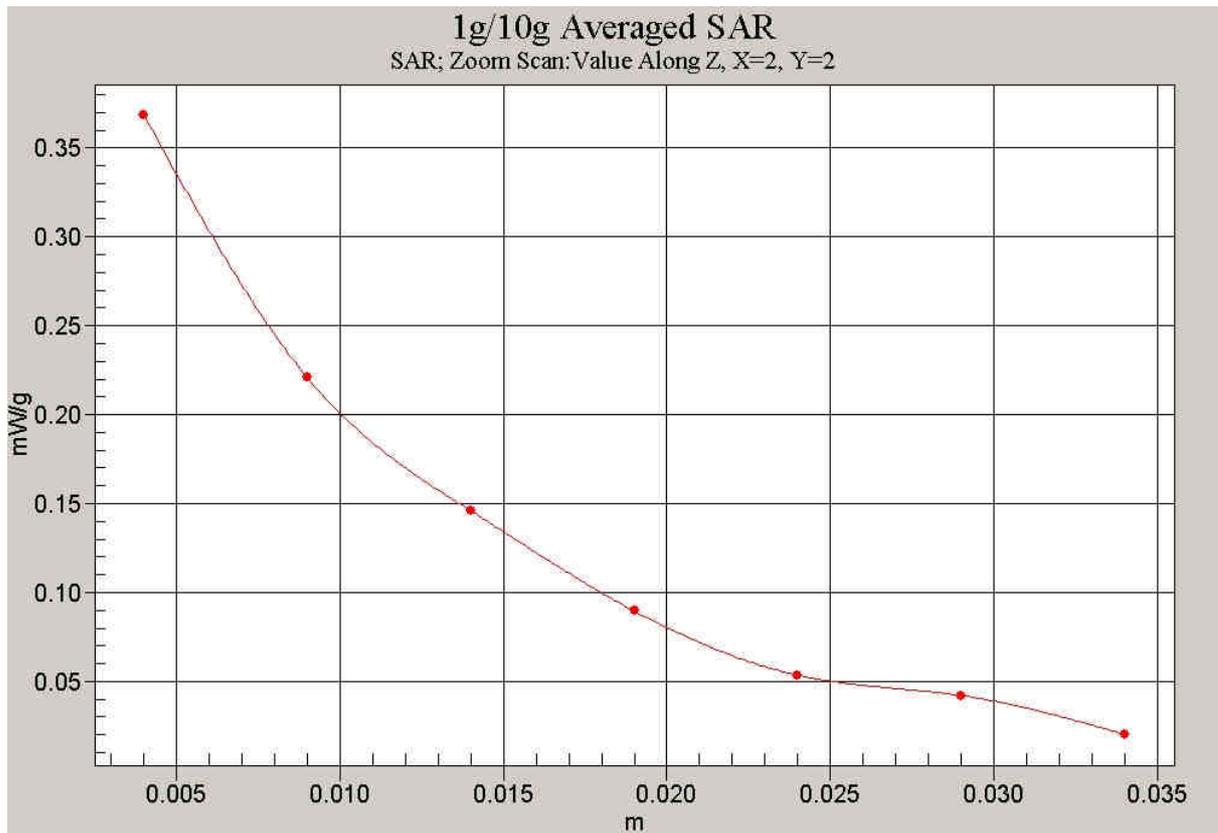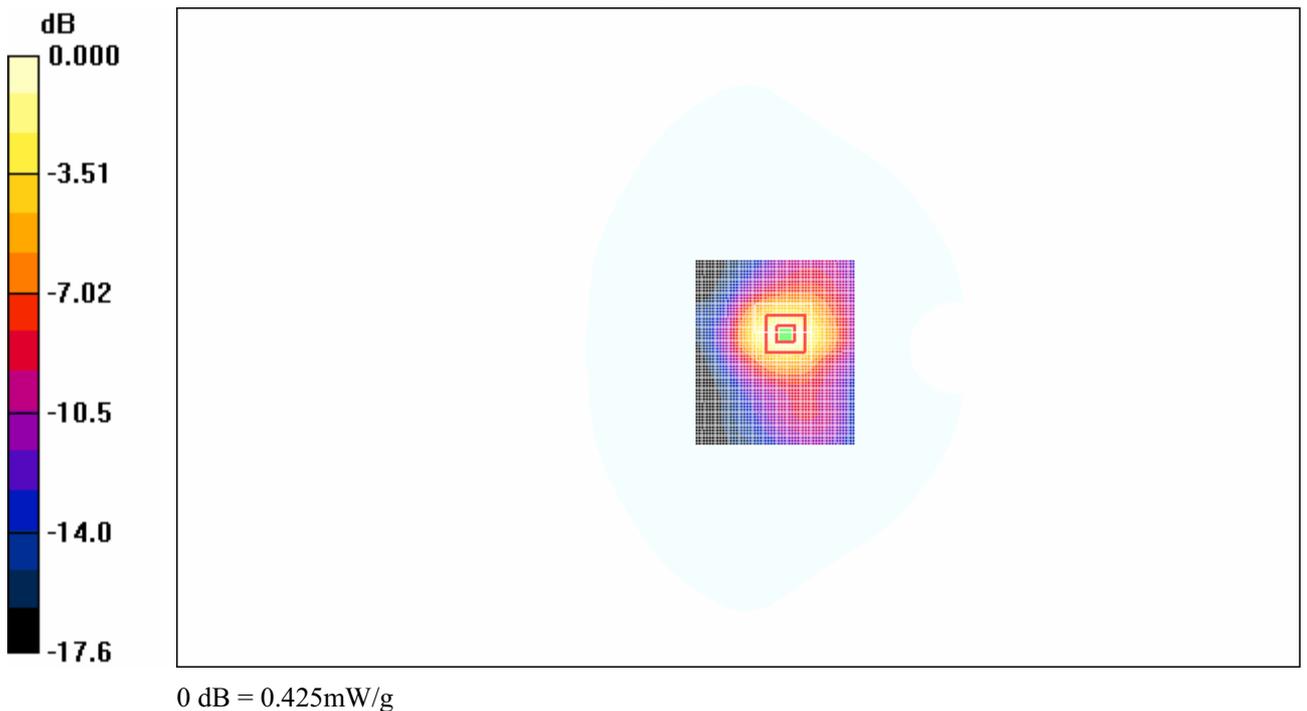
Fig.199 1900MHz GPRS CH661 Test Position 5

Fig.200 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 8)

1900MHz GPRS Test Position 1 with IBM Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

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

Maximum value of SAR (interpolated) = 0.182 mW/g

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

Reference Value = 7.89 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.081 mW/g

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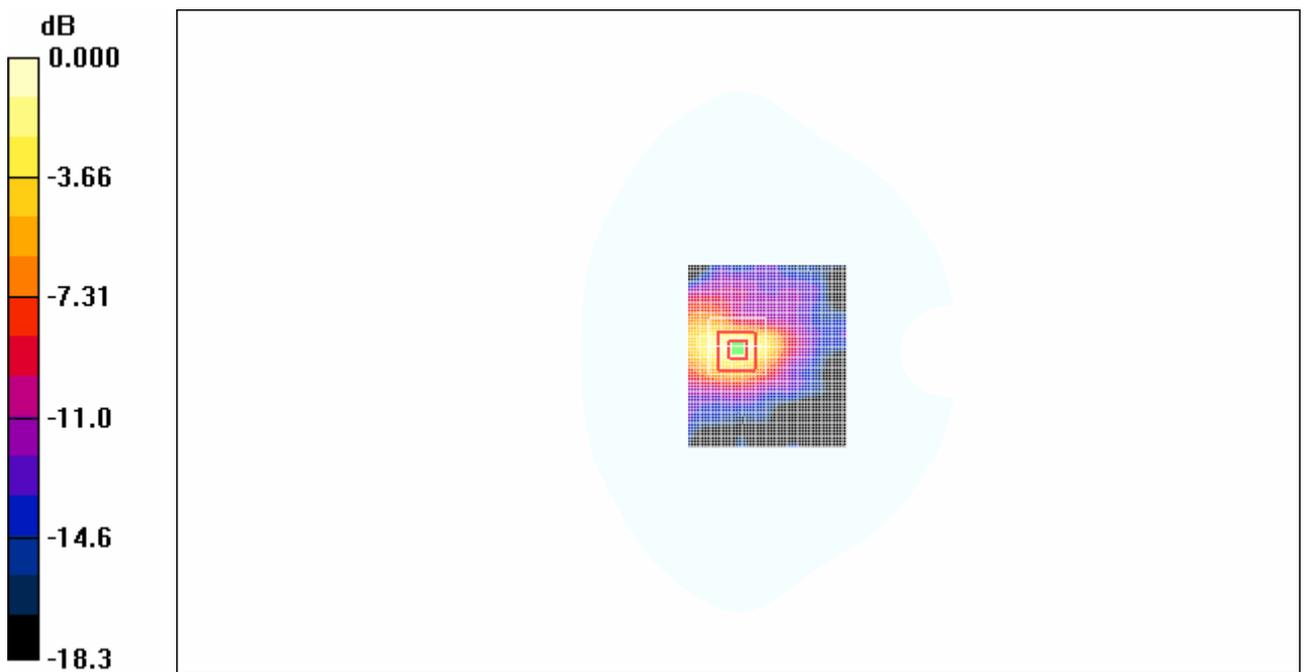
0 dB = 0.188mW/g

Fig.201 1900MHz GPRS CH661Test Position 1

Fig.202 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 1)

1900MHz GPRS Test Position 2 with IBM Laptop-antenna retracted
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; $ε_r$ = 52.1; ρ = 1000 kg/m³
Ambient Temperature:23.3°C   Liqiud Temperature: 22.5°C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 2/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.090 mW/g

Test Position 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.84 V/m; Power Drift = -0.001 dB
Peak SAR (extrapolated) = 0.131 W/kg
SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.048 mW/g
Maximum value of SAR (measured) = 0.089 mW/g

0 dB = 0.089mW/g
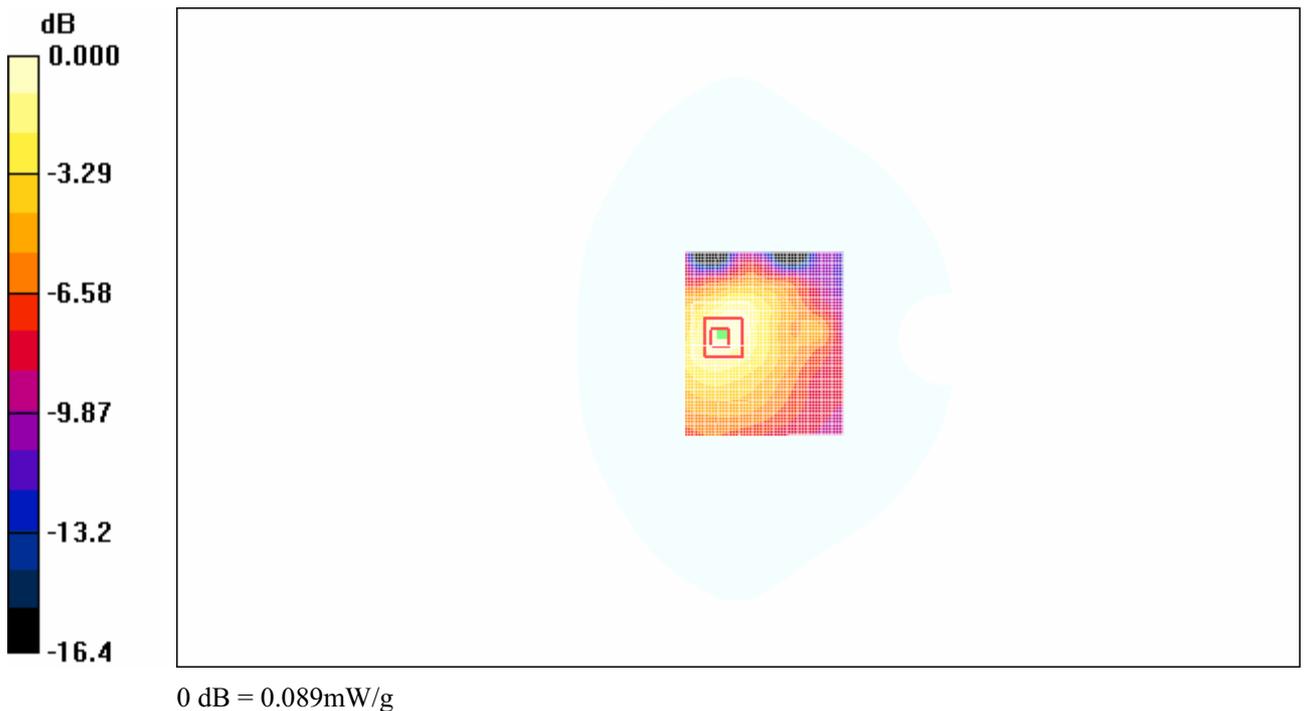
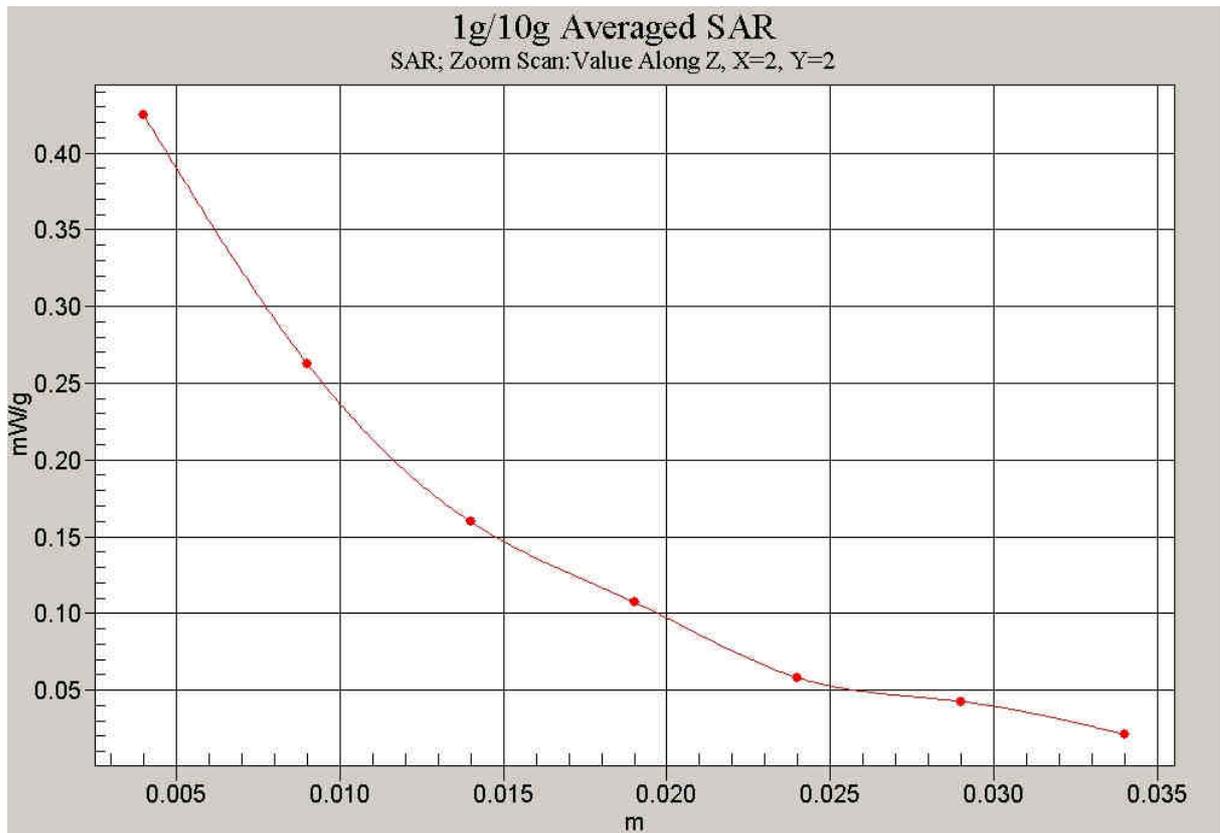**Fig.203 1900MHz GPRS CH661Test Position 2**
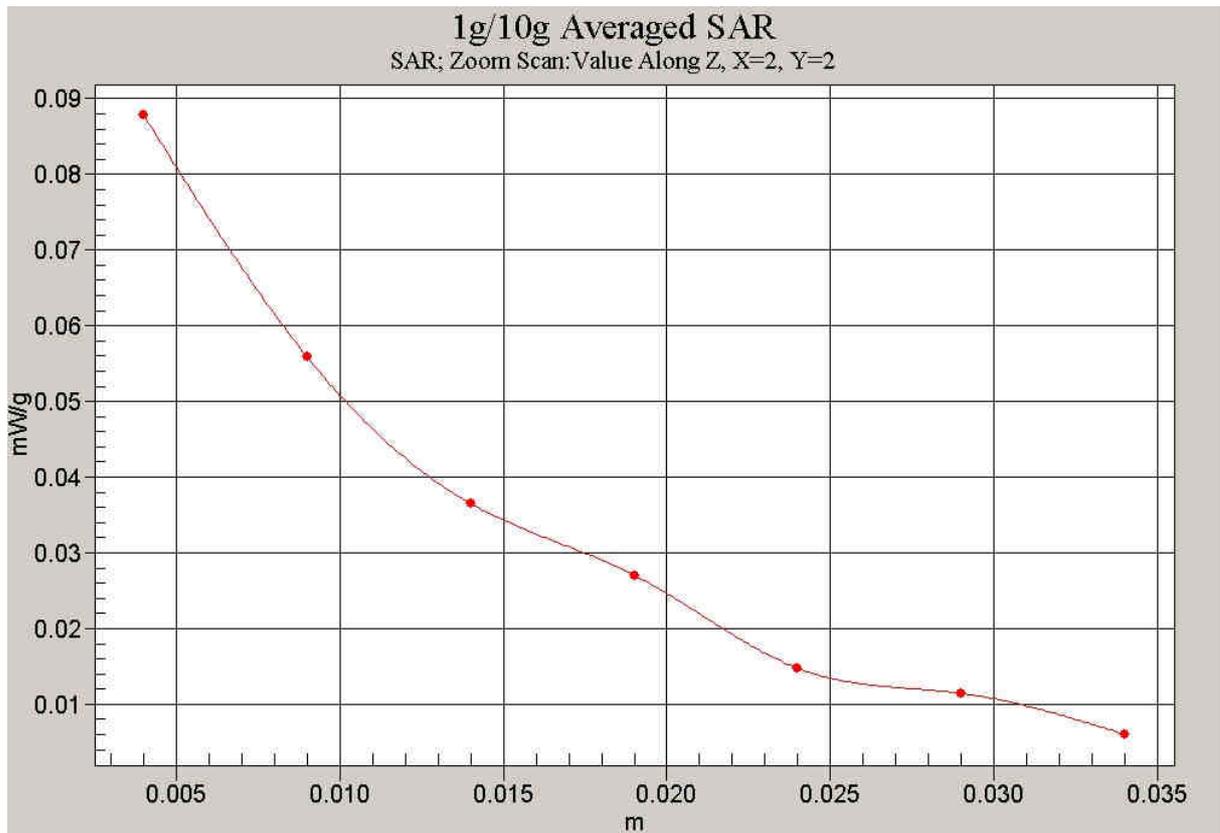
Fig.204 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 2)

1900MHz GPRS Test Position 3 with IBM Laptop-antenna retracted
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 3/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.625 mW/g

Test Position 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.71 V/m; Power Drift = 0.018 dB
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.612 mW/g; SAR(10 g) = 0.310 mW/g
Maximum value of SAR (measured) = 0.699 mW/g

0 dB = 0.699mW/g
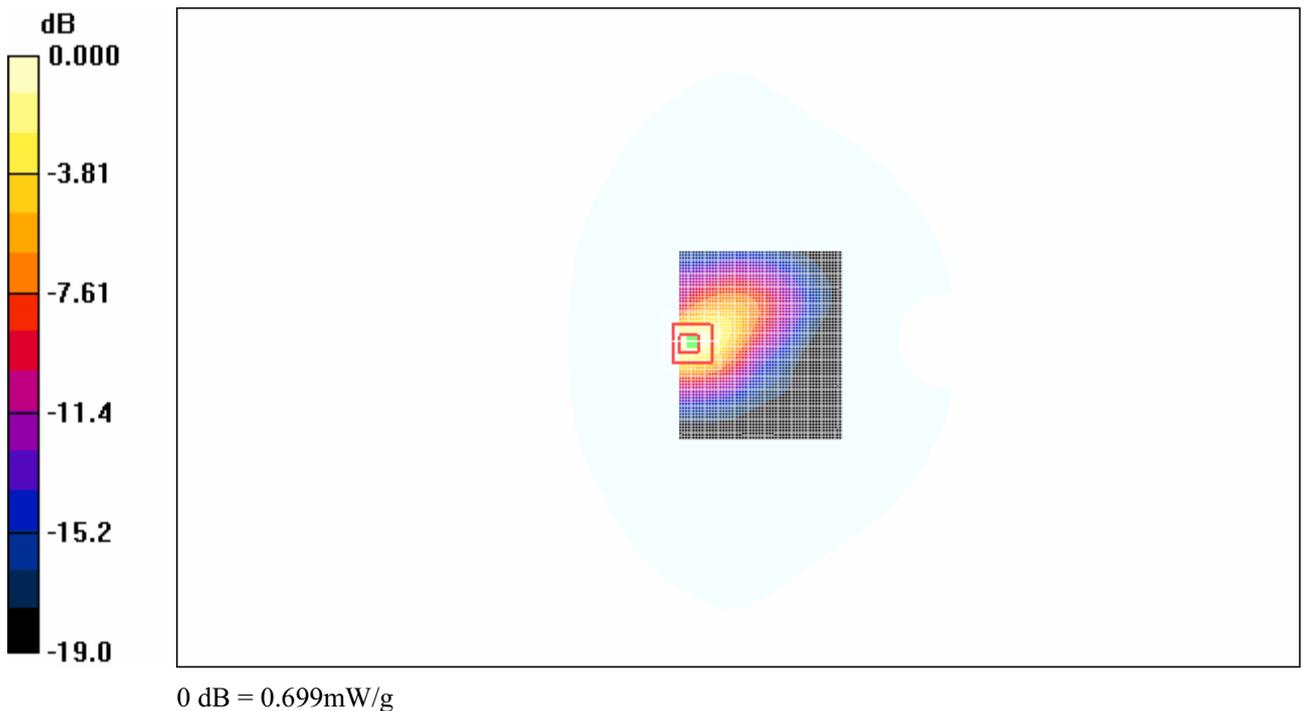
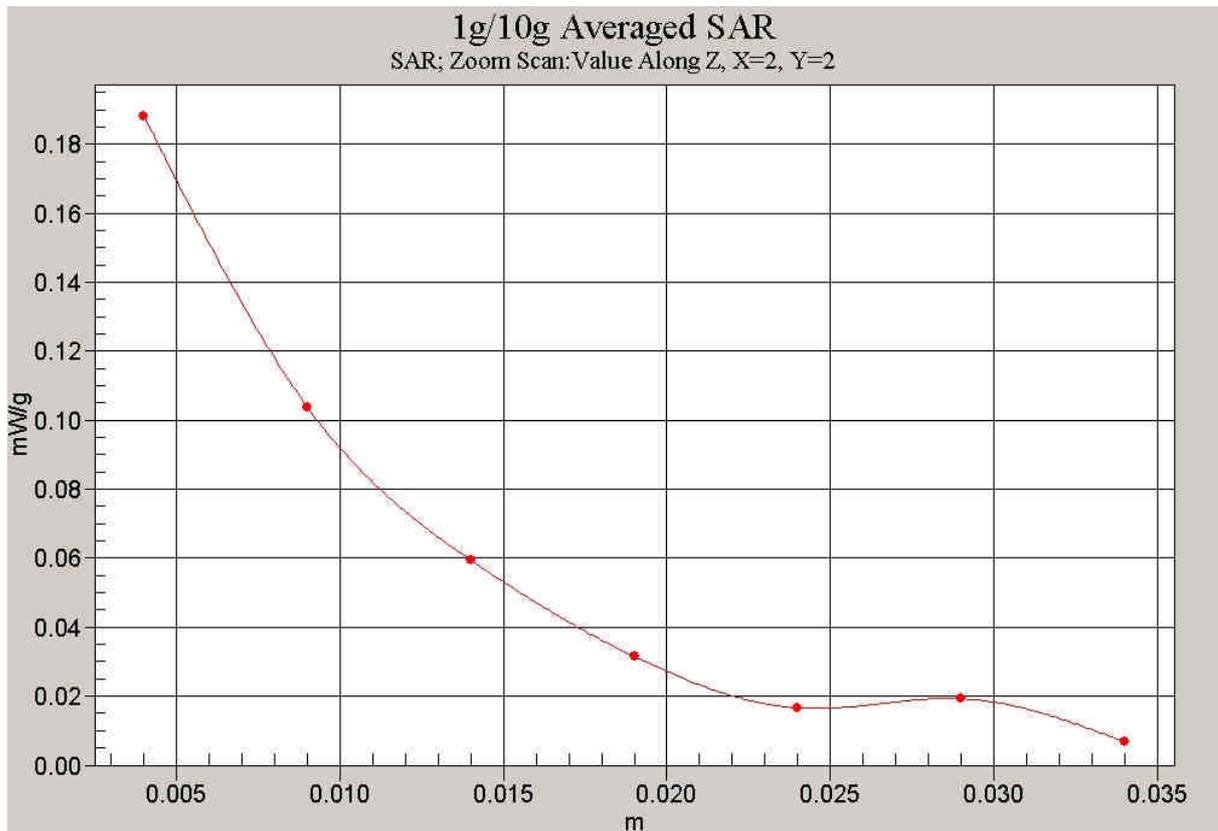**Fig.205 1900MHz GPRS CH661Test Position 3**
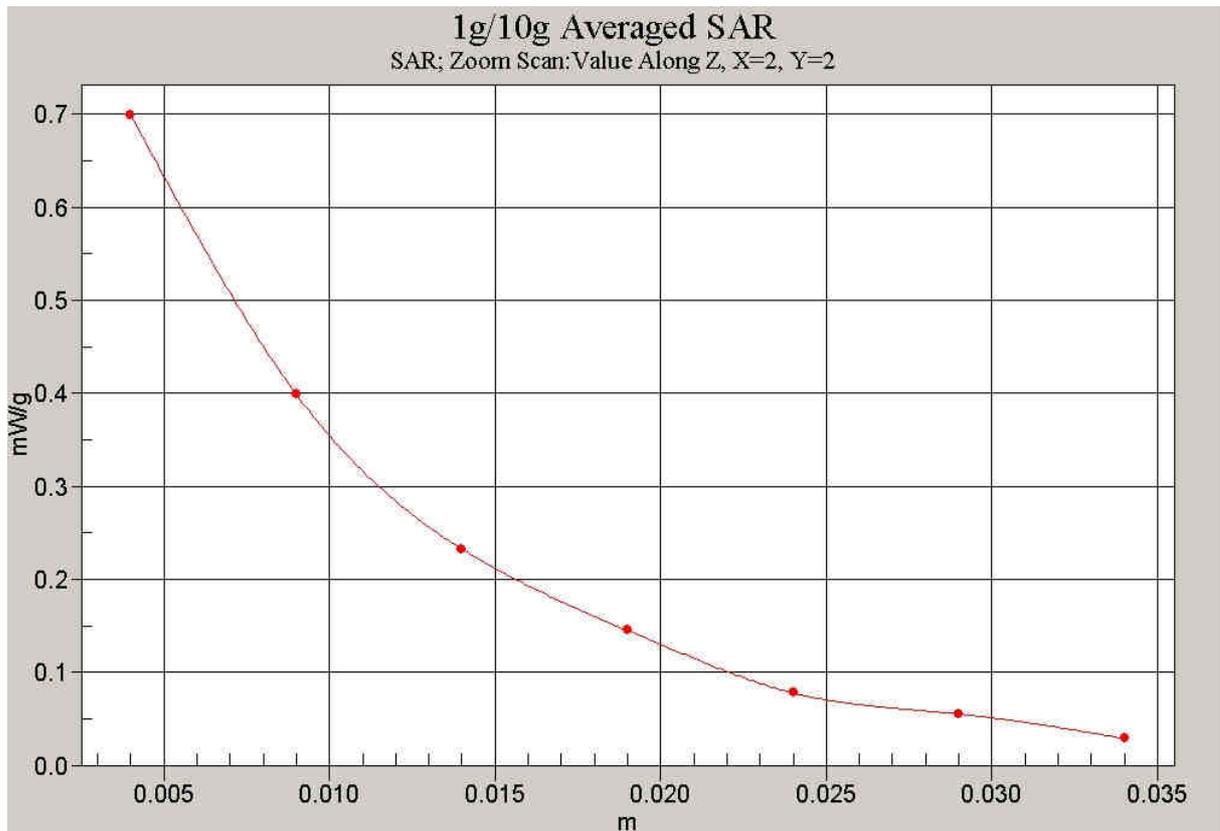
Fig.206 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 3)

1900MHz GPRS Test Position 4 with IBM Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 4/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 14.7 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.429 mW/g; SAR(10 g) = 0.245 mW/g

Maximum value of SAR (measured) = 0.470 mW/g

0 dB = 0.470mW/g
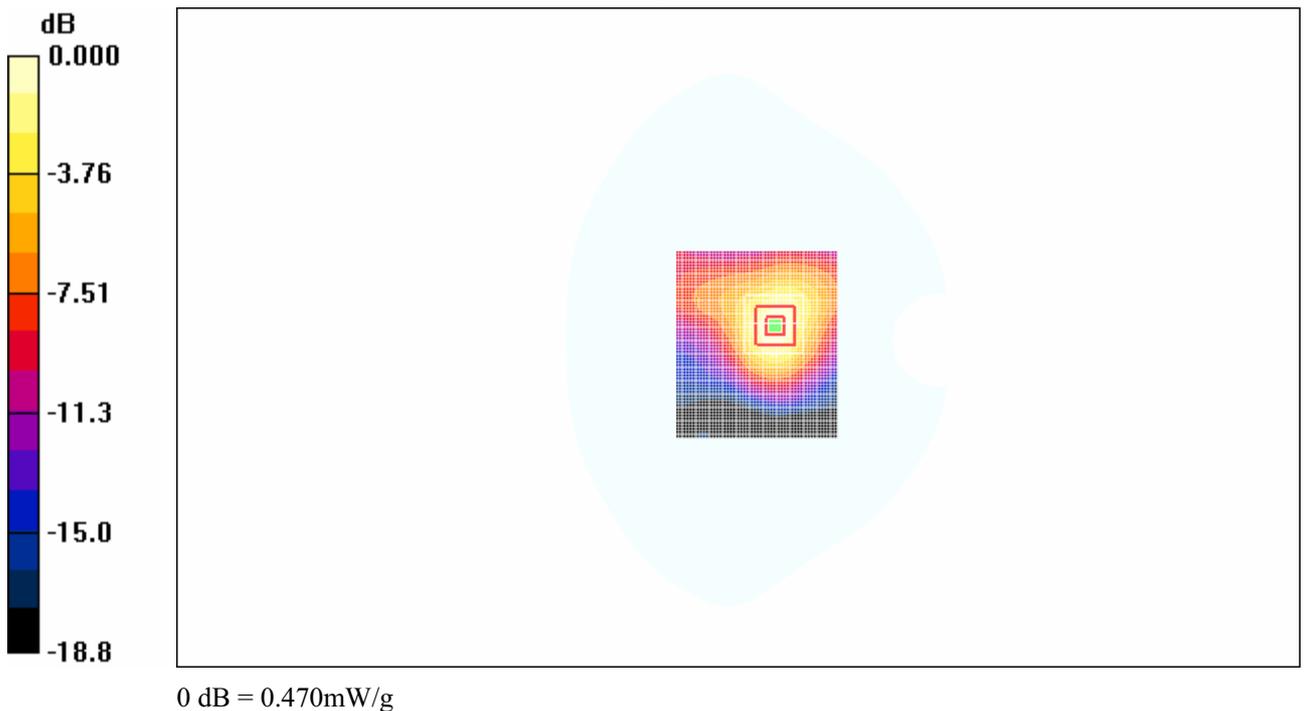
Fig.207 1900MHz GPRS CH661Test Position 4

Fig.208 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 4)

1900MHz GPRS Test Position 5 with IBM Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

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

Maximum value of SAR (interpolated) = 0.225 mW/g

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

Reference Value = 12.4 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 0.218 mW/g

0 dB = 0.218mW/g
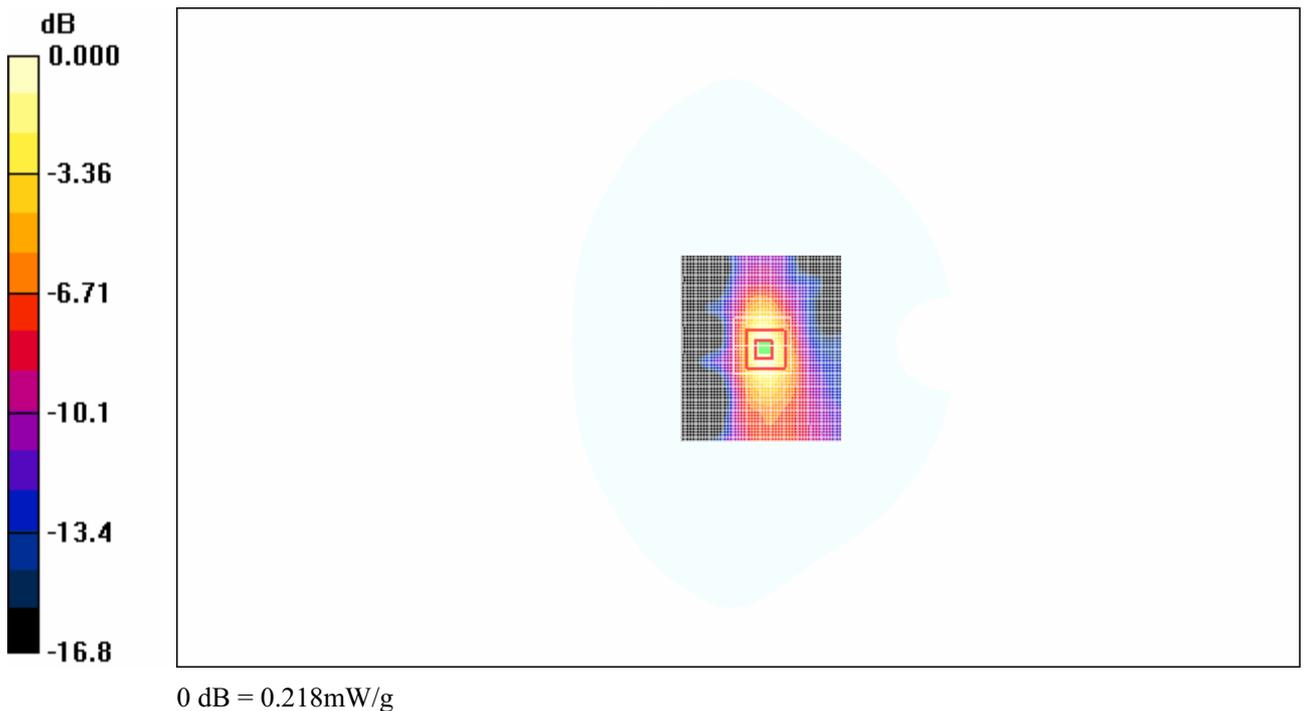
Fig.209 1900MHz GPRS CH661 Test Position 5

Fig.210 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 5)

1900MHz GPRS Test Position 6 with IBM Laptop-antenna retracted
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3
Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 6/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.446 mW/g

Test Position 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.1 V/m; Power Drift = -0.041 dB
Peak SAR (extrapolated) = 0.743 W/kg
SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.224 mW/g
Maximum value of SAR (measured) = 0.430 mW/g

0 dB = 0.430mW/g
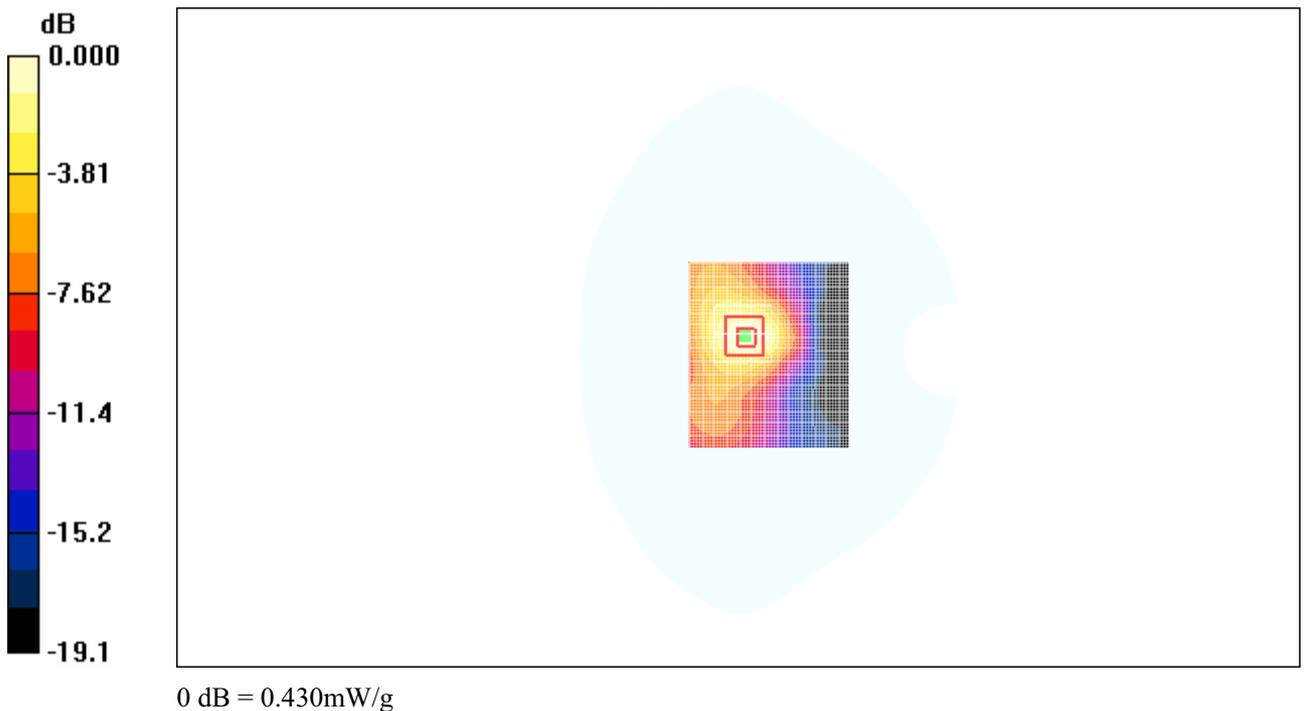
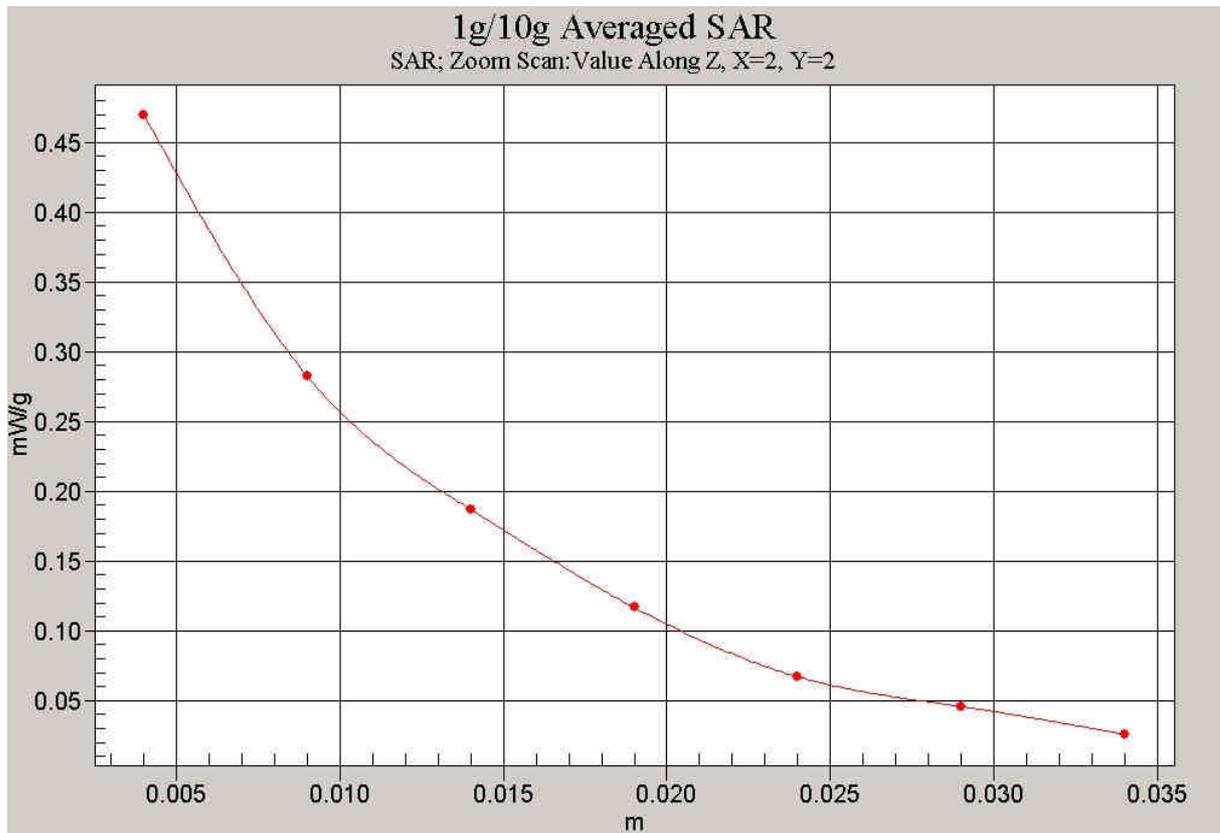**Fig.211 1900MHz GPRS CH661 Test Position 6**

Fig.212 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 6)

1900MHz GPRS Test Position 7 with IBM Laptop-antenna retracted
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; $ε_r$ = 52.1; ρ = 1000 kg/m^3
Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 7/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.782 mW/g

**Test Position 7/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.4 V/m; Power Drift = -0.019 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.347 mW/g
Maximum value of SAR (measured) = 0.717 mW/g

0 dB = 0.717mW/g
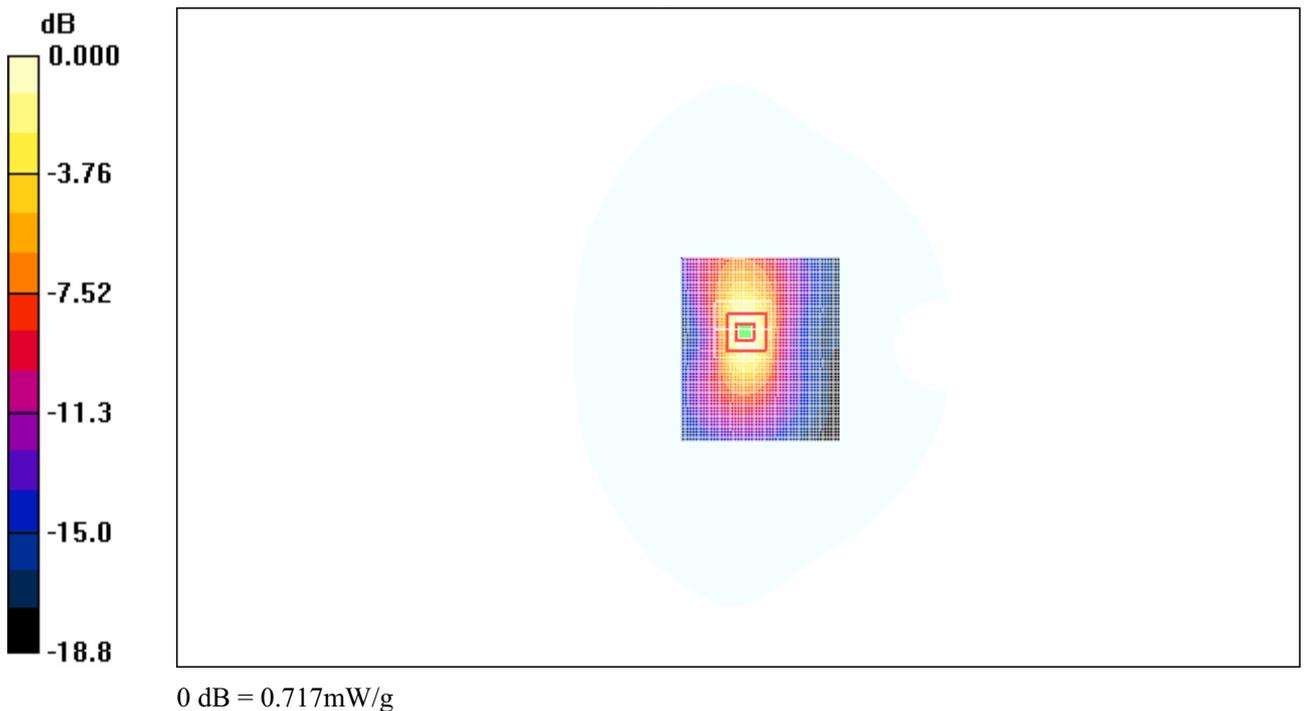
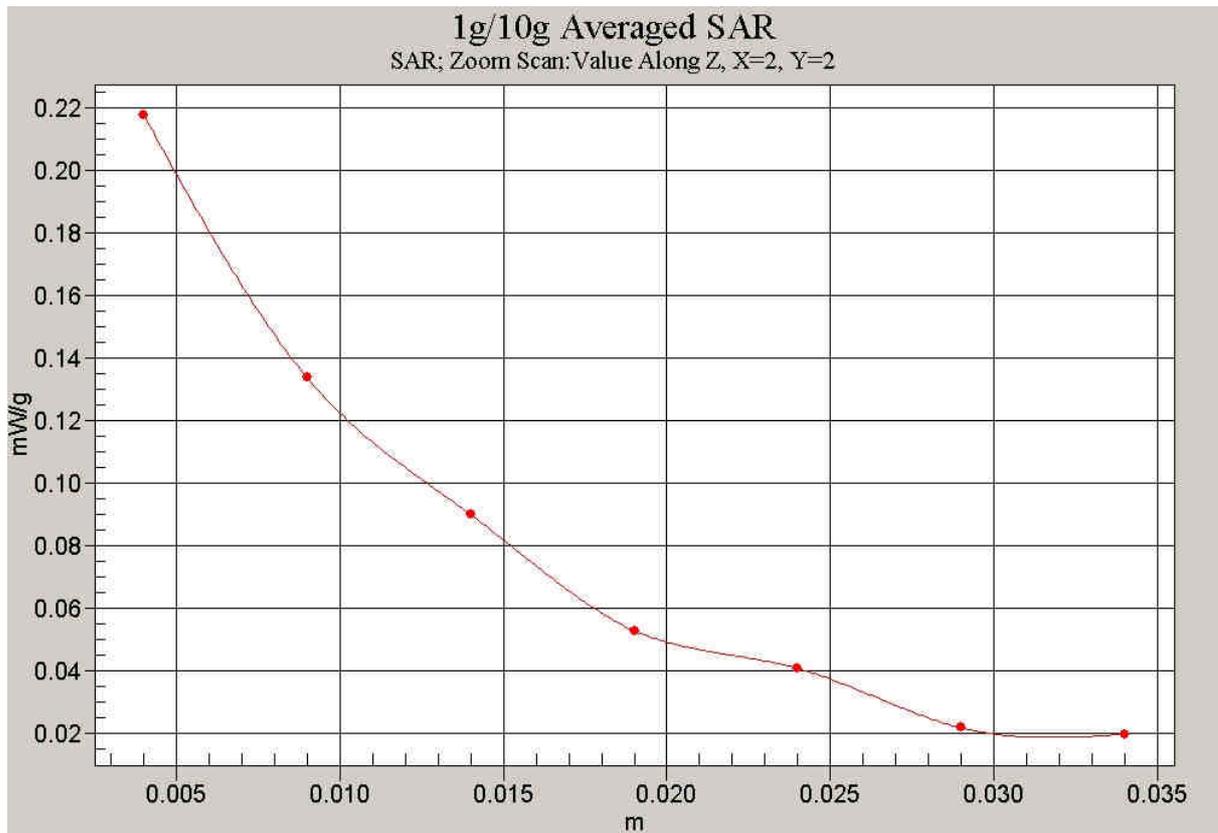**Fig.213 1900MHz GPRS CH661 Test Position 7**
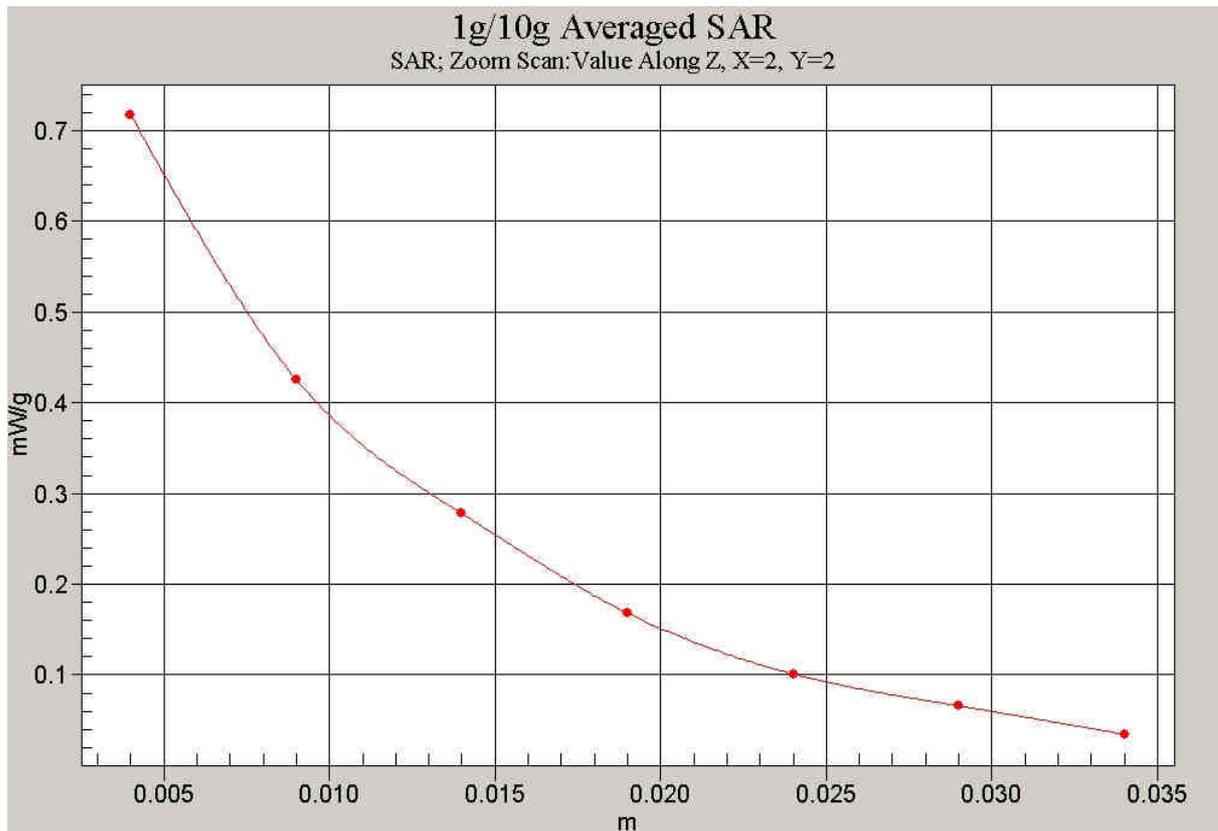
Fig.214 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 7)

1900MHz GPRS Test Position 8 with IBM Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

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

Test Position 8/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.490 mW/g

Test Position 8/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.5 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.738 W/kg

SAR(1 g) = 0.439 mW/g; SAR(10 g) = 0.241 mW/g

Maximum value of SAR (measured) = 0.482 mW/g

0 dB = 0.482mW/g
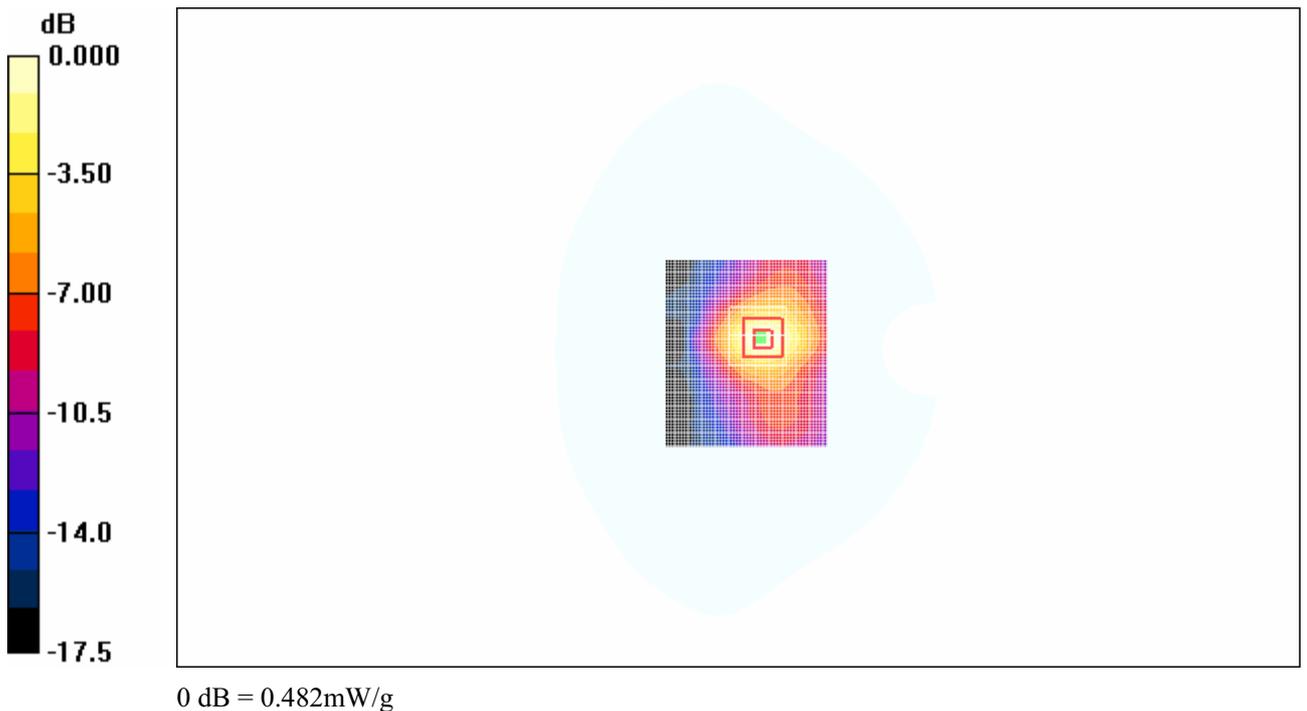
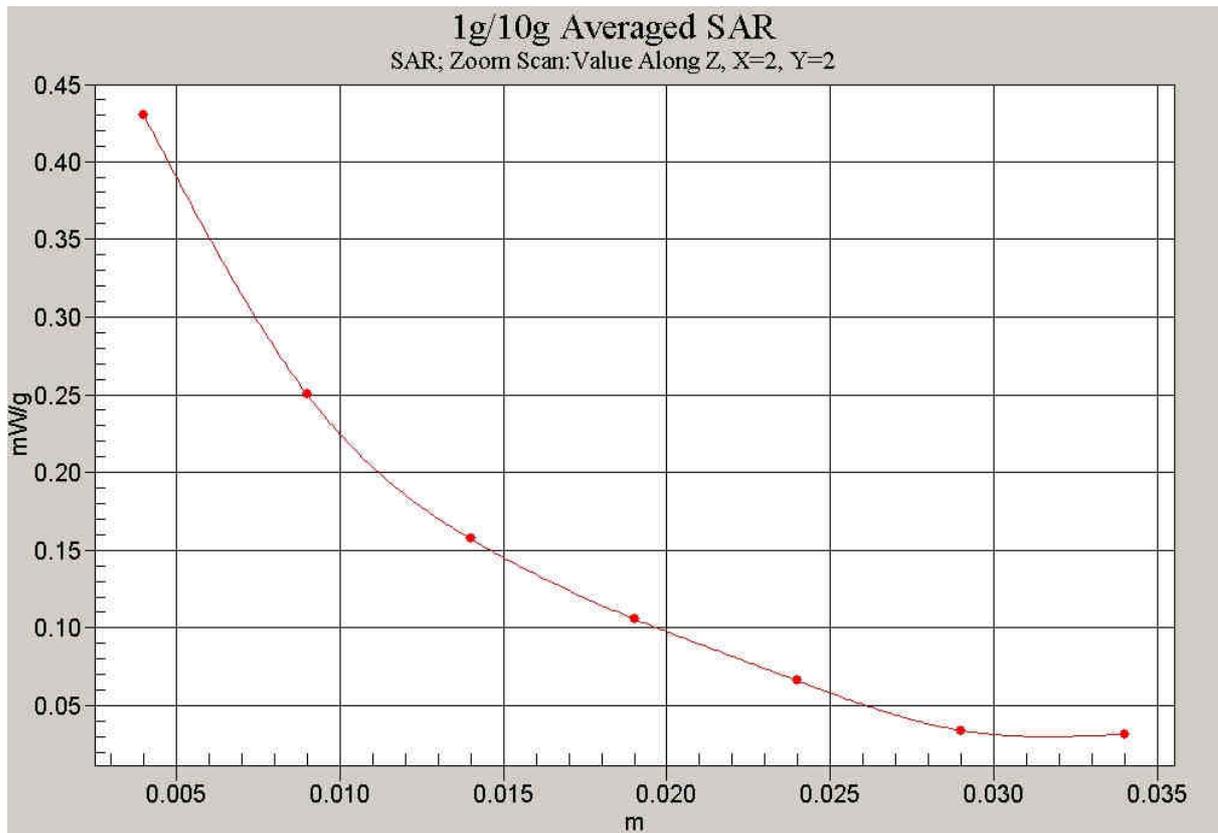**Fig.215 1900MHz GPRS CH661 Test Position 8**

Fig.216 Z-Scan at power reference point (1900MHz GPRS CH661 Test Position 8)

850MHz EGPRS Test Position 4 with DELL Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 850 Body

Medium parameters used (interpolated): f = 836.6 MHz; σ = 1.01 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:2

Probe: ET3DV6 - SN1736 ConvF(6.45, 6.45, 6.45)

Test Position 4/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.624 mW/g

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

Reference Value = 24.8 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 0.861 W/kg

SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.373 mW/g

Maximum value of SAR (measured) = 0.618 mW/g
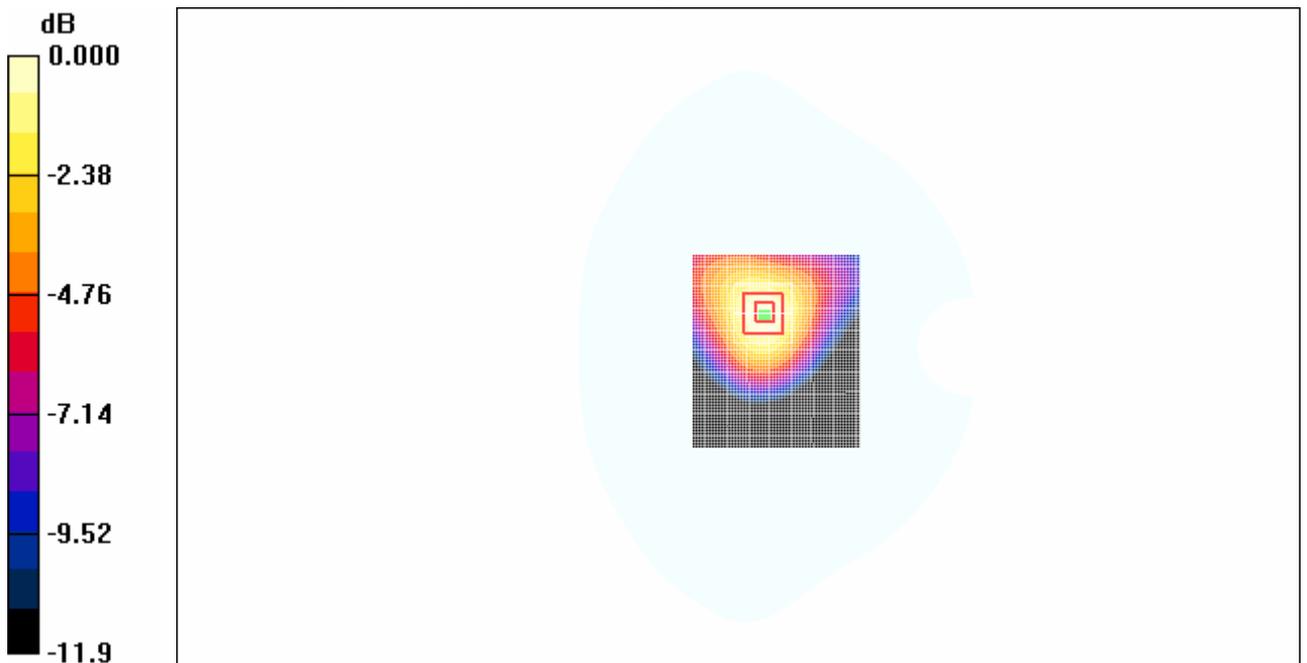
0 dB = 0.618mW/g

**Fig.217 850MHz EGPRS CH190 Test Position 4**

Fig.218 Z-Scan at power reference point (850 MHz EGPRS CH190 Test Position 4)

850MHz EGPRS Test Position 4 with HP Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 850 Body

Medium parameters used (interpolated): f = 836.6 MHz; σ = 1.01 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:2

Probe: ET3DV6 - SN1736 ConvF(6.45, 6.45, 6.45)

Test Position 4/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.942 mW/g

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

Reference Value = 26.6 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.840 mW/g; SAR(10 g) = 0.514 mW/g

Maximum value of SAR (measured) = 0.918 mW/g
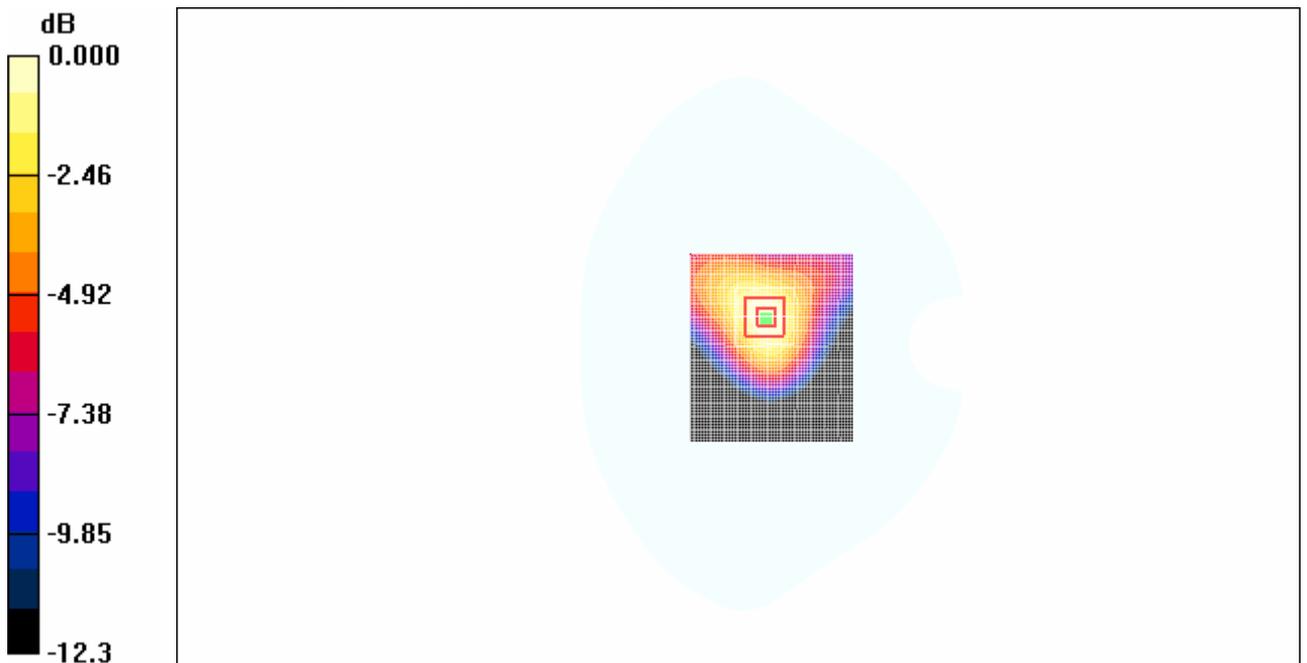
0 dB = 0.918mW/g

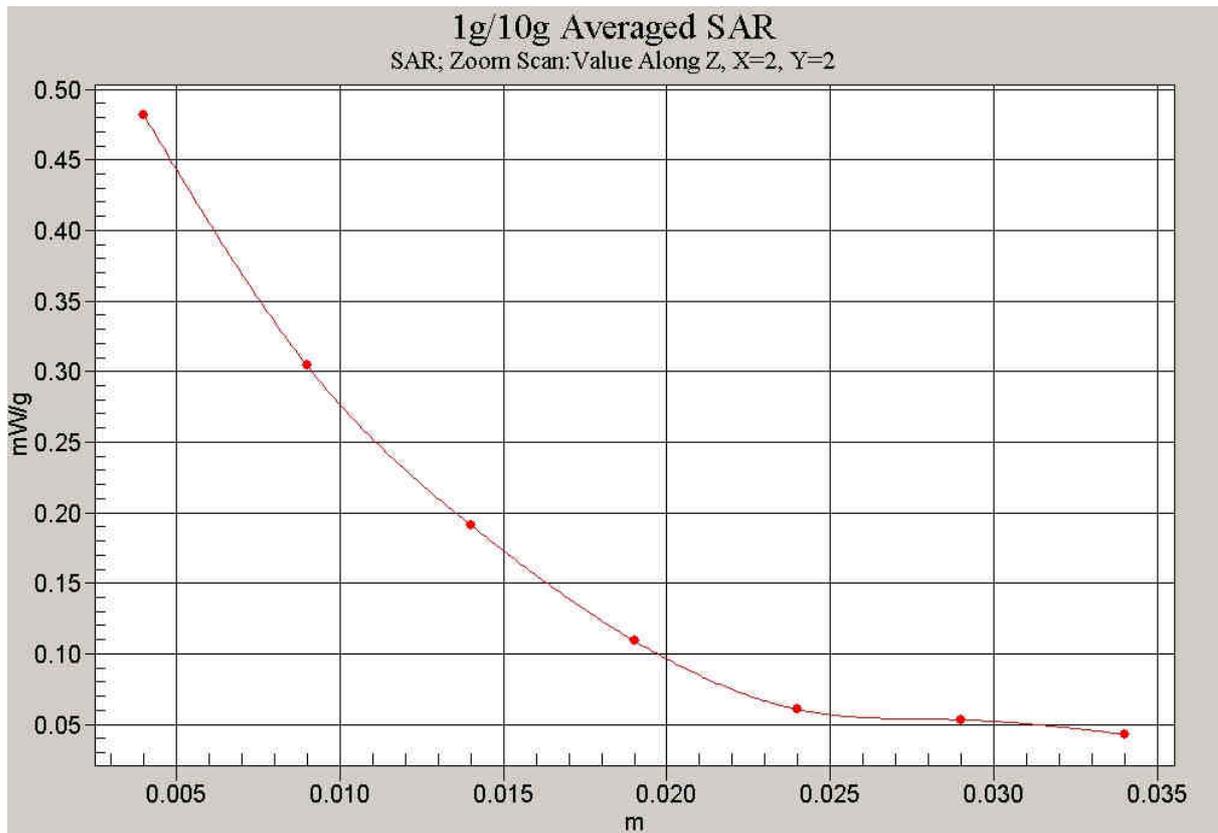**Fig.219 850MHz EGPRS CH190 Test Position 4**
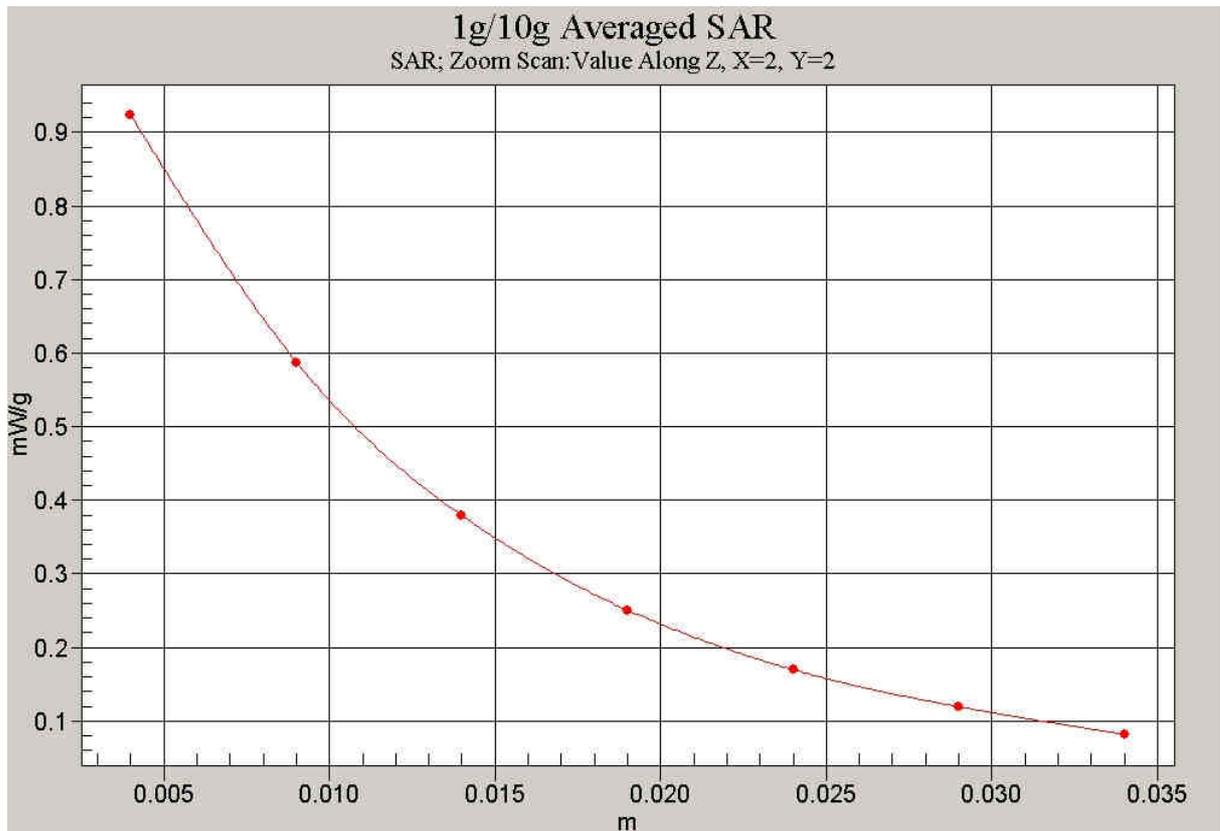
Fig.220 Z-Scan at power reference point (850 MHz EGPRS CH190 Test Position 4)

850MHz EGPRS Test Position 4 with IBM Laptop-antenna extended

Electronics: DAE3 Sn536

Medium: 850 Body

Medium parameters used (interpolated): f = 836.6 MHz; σ = 1.01 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 850 GPRS Frequency: 836.6 MHz Duty Cycle: 1:2

Probe: ET3DV6 - SN1736 ConvF(6.45, 6.45, 6.45)

Test Position 4/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

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

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

Reference Value = 23.8 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.820 mW/g; SAR(10 g) = 0.516 mW/g

Maximum value of SAR (measured) = 0.892 mW/g

0 dB = 0.892mW/g
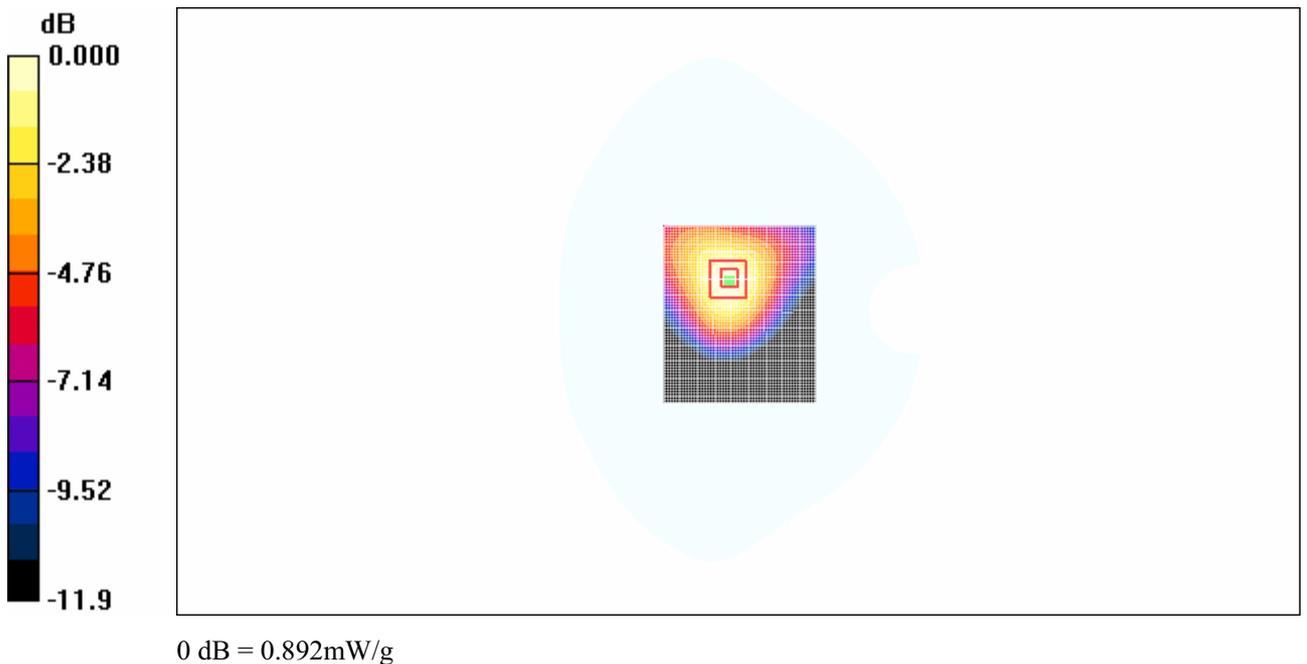
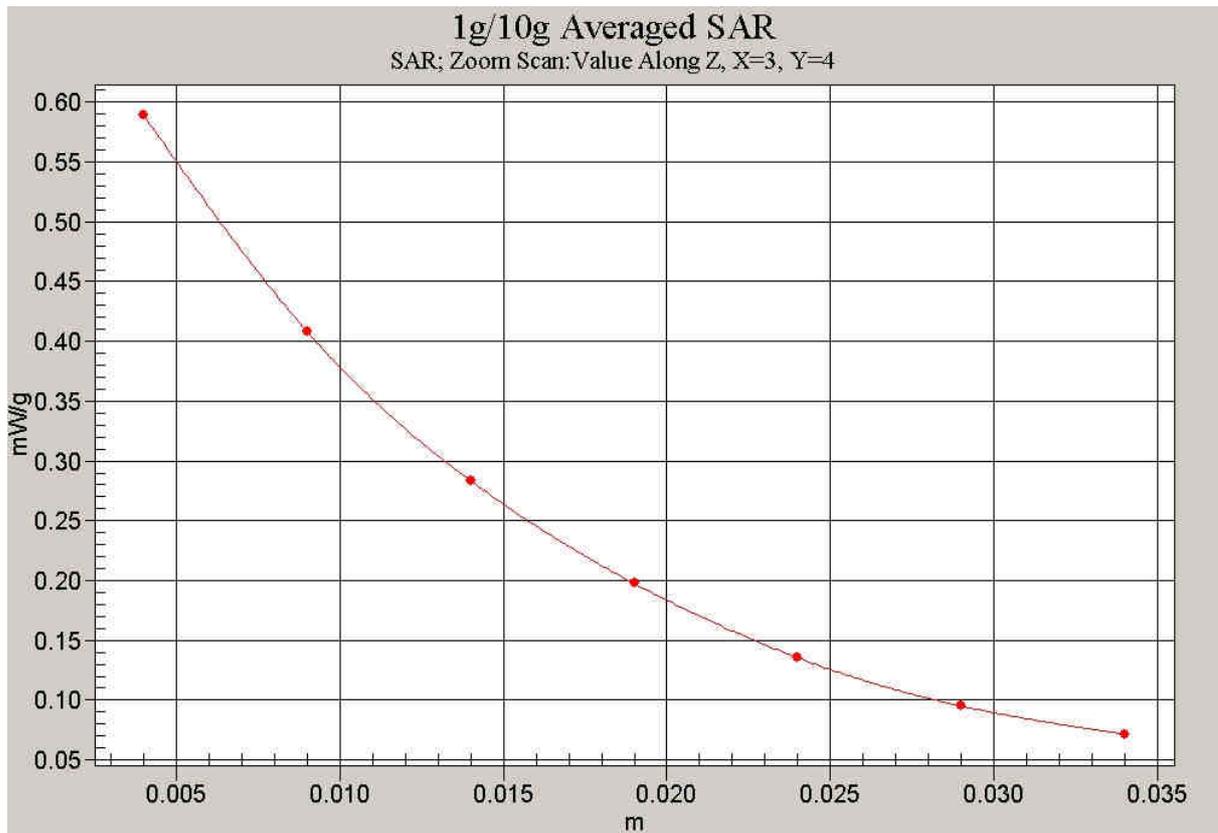**Fig.221 850MHz EGPRS CH190 Test Position 4**

Fig.222 Z-Scan at power reference point (850 MHz EGPRS CH190 Test Position 4)

1900MHz EGPRS Test Position 7 with DELL Laptop-antenna retracted
Electronics: DAE3 Sn536
Medium: 1900 Body
Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m³
Ambient Temperature:23.3°C   Liqiud Temperature: 22.5°C
Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:2
Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Test Position 7/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.27 mW/g

Test Position 7/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.9 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 0.998 mW/g; SAR(10 g) = 0.519 mW/g
Maximum value of SAR (measured) = 1.10 mW/g

0 dB = 1.10mW/g
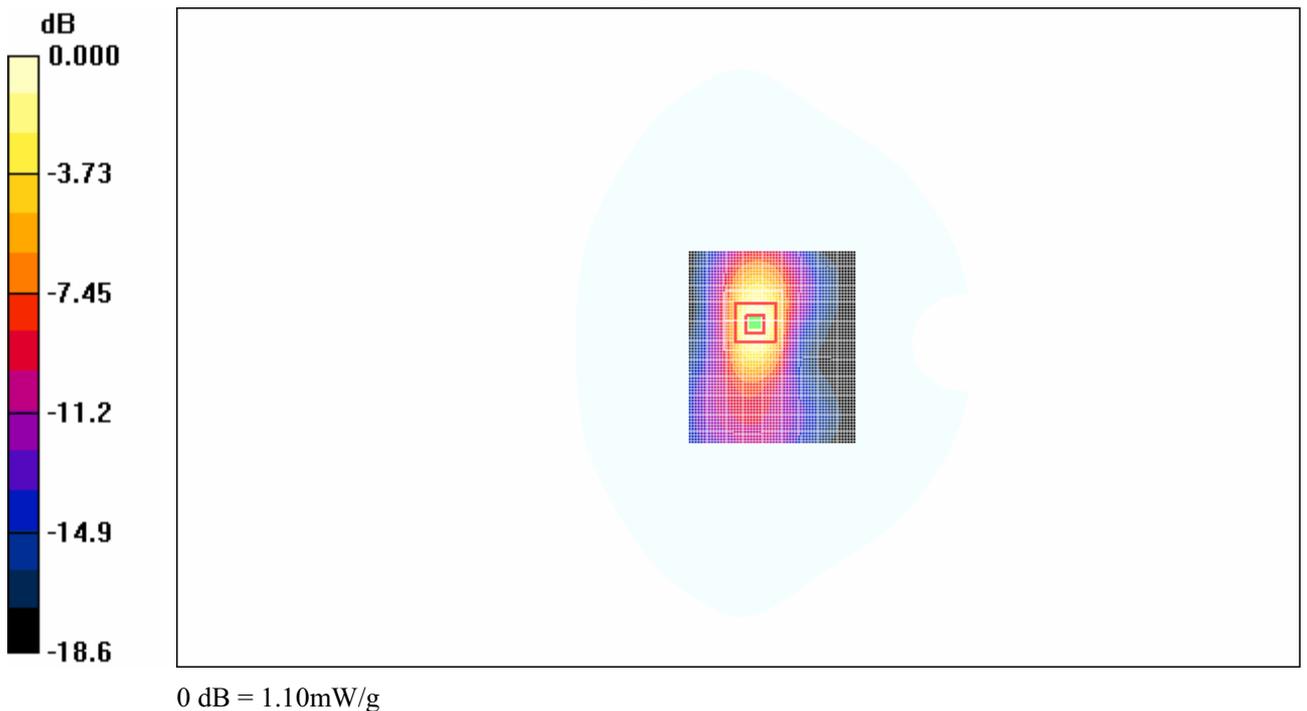
Fig.223 1900MHz GPRS CH661 Test Position 7
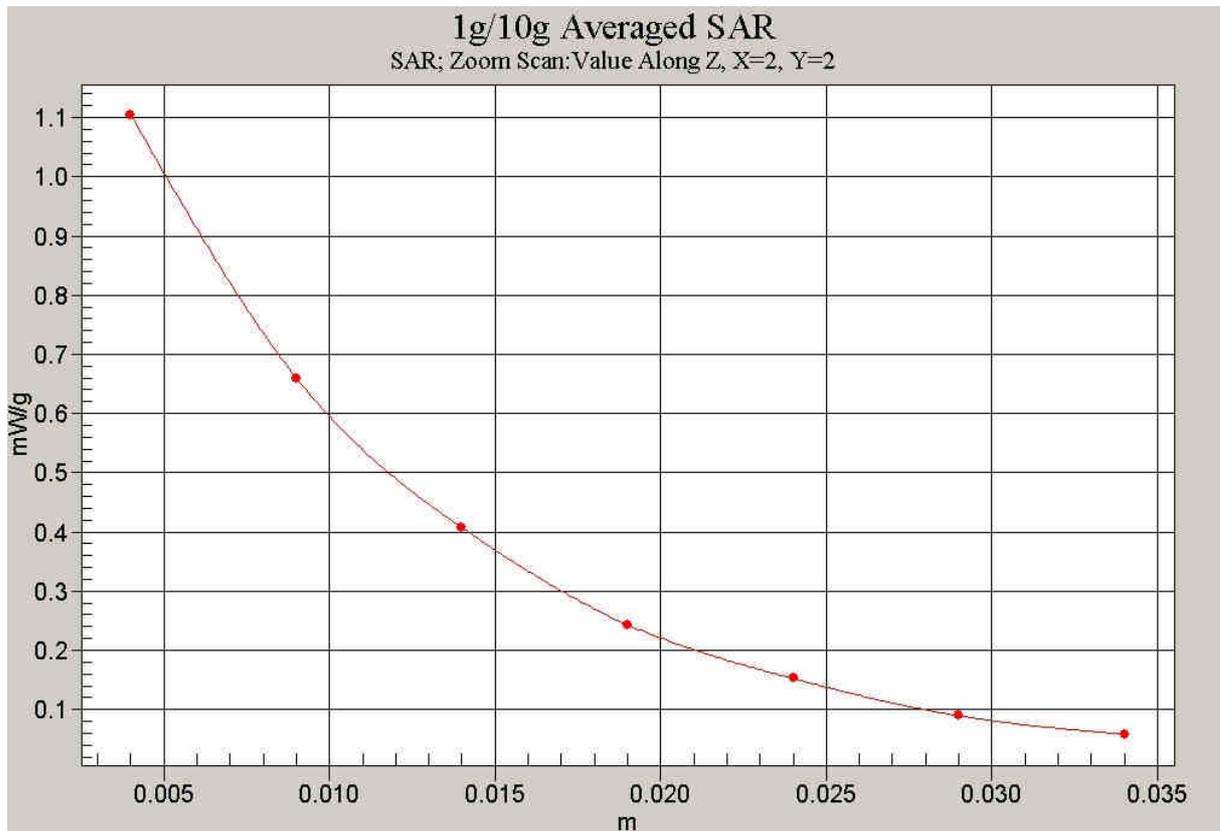
Fig.224 Z-Scan at power reference point (1900MHz EGPRS CH661 Test Position 7)

1900MHz EGPRS Test Position 7 with HP Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:2

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

Test Position 7/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.04 mW/g

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

Reference Value = 25.1 V/m; Power Drift = -0.074 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.890 mW/g; SAR(10 g) = 0.479 mW/g

Maximum value of SAR (measured) = 0.965 mW/g

0 dB = 0.965mW/g
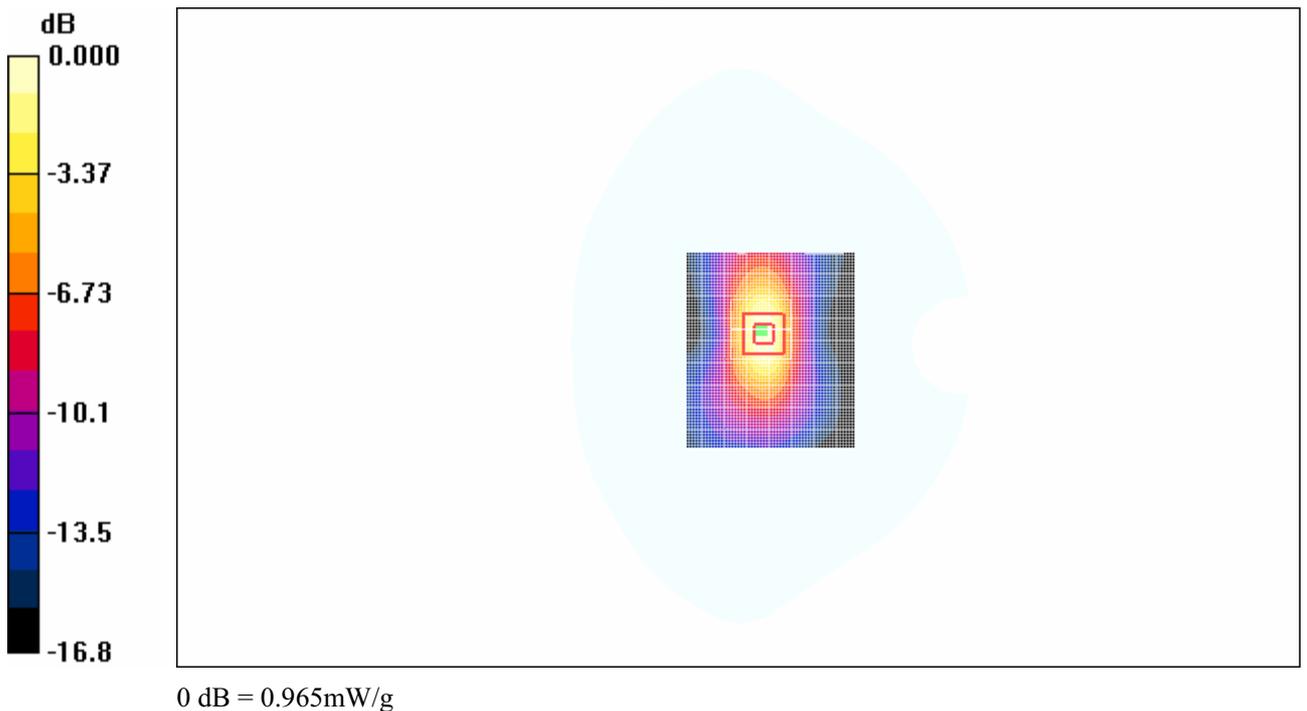
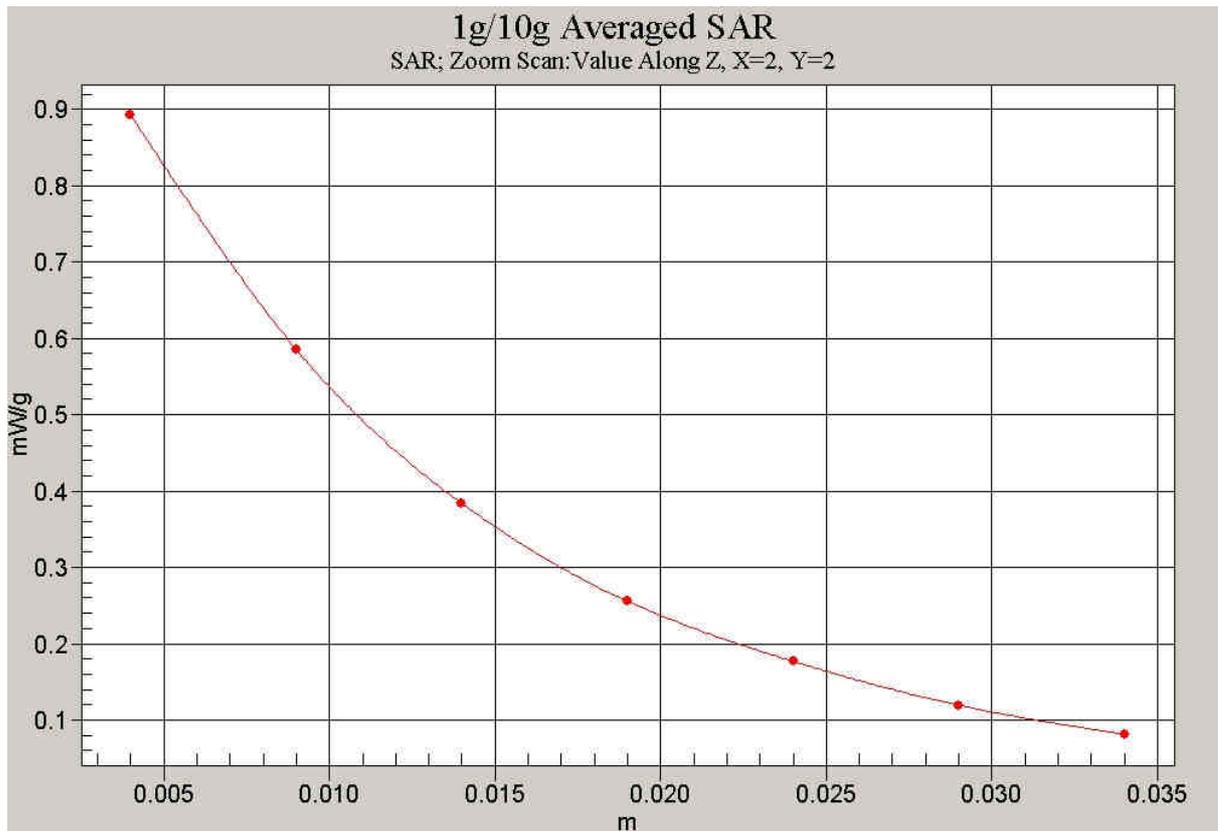**Fig.225 1900MHz EGPRS CH661 Test Position 7**
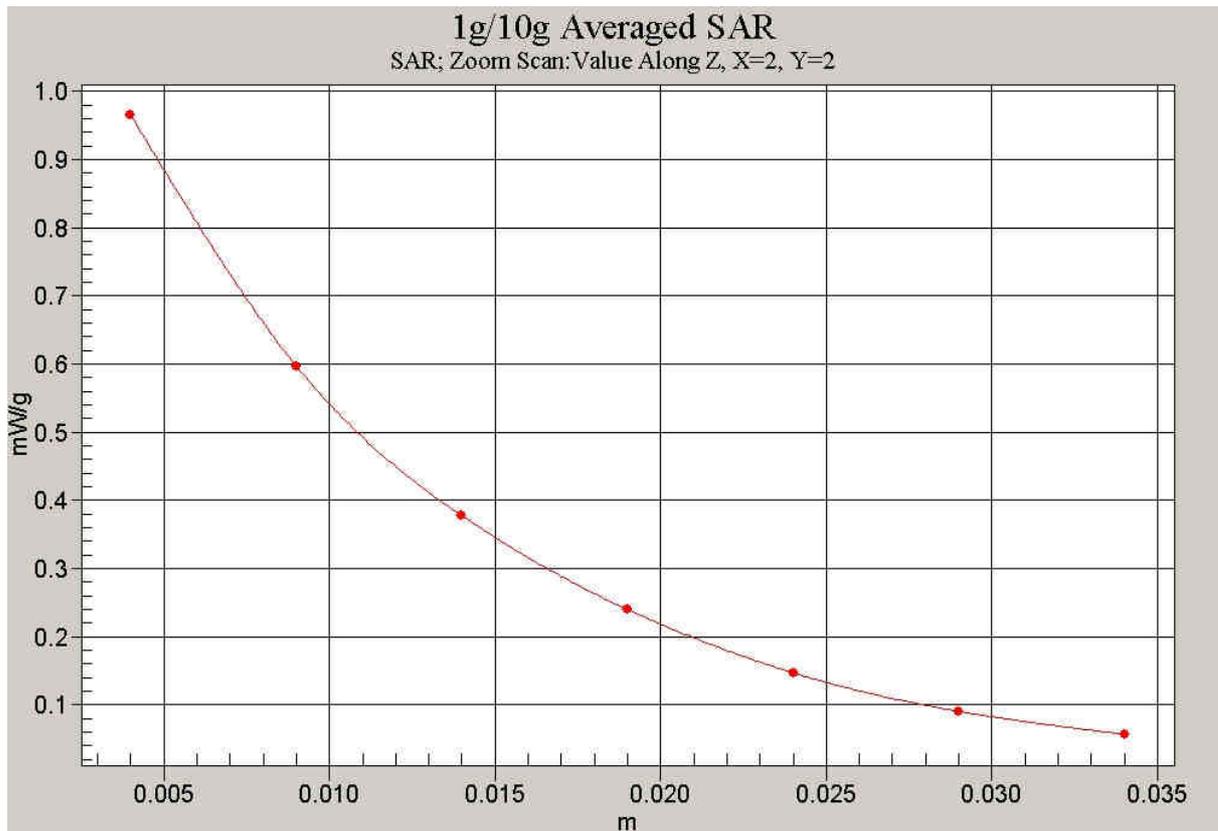
Fig.226 Z-Scan at power reference point (1900MHz EGPRS CH661 Test Position 7)

1900MHz EGPRS Test Position 7 with IBM Laptop-antenna retracted

Electronics: DAE3 Sn536

Medium: 1900 Body

Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.1; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.5^{o}C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:2

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

Test Position 7/Area Scan (61x71x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.00 mW/g

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

Reference Value = 23.8 V/m; Power Drift = -0.154 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.827 mW/g; SAR(10 g) = 0.438 mW/g

Maximum value of SAR (measured) = 0.915 mW/g

0 dB = 0.915mW/g
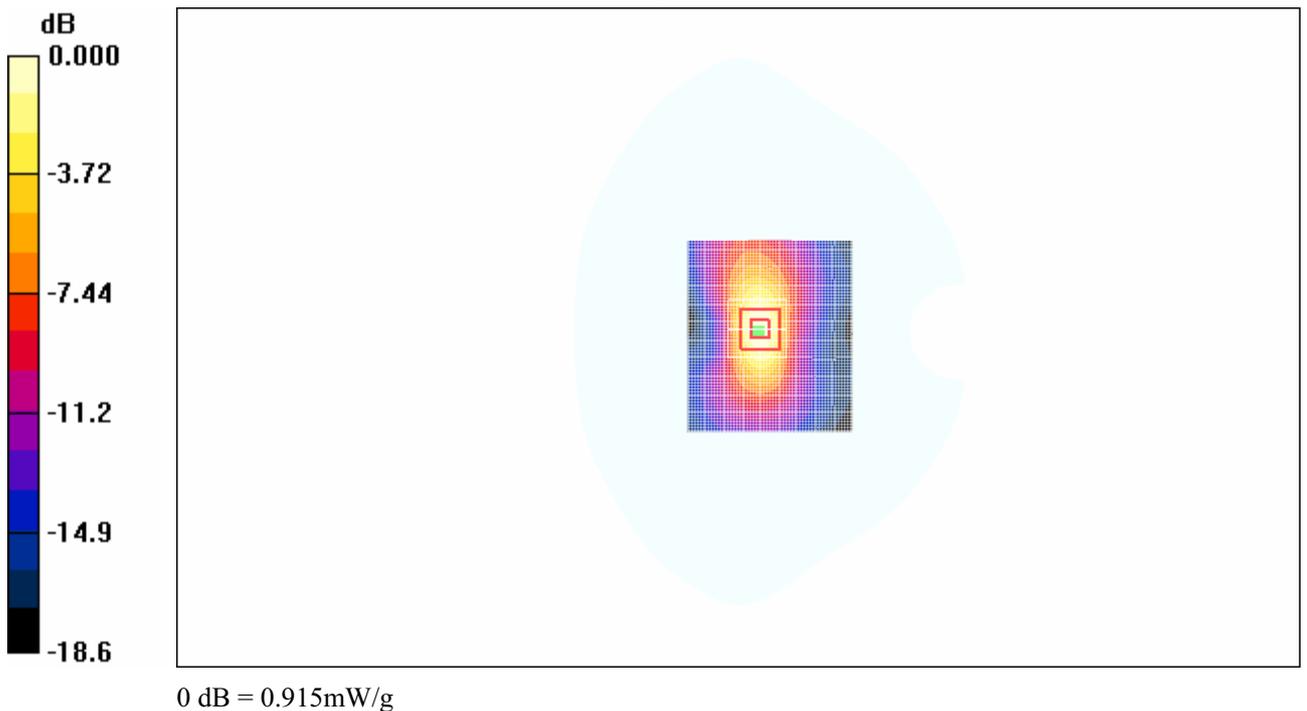
Fig.227 1900MHz EGPRS CH661 Test Position 7
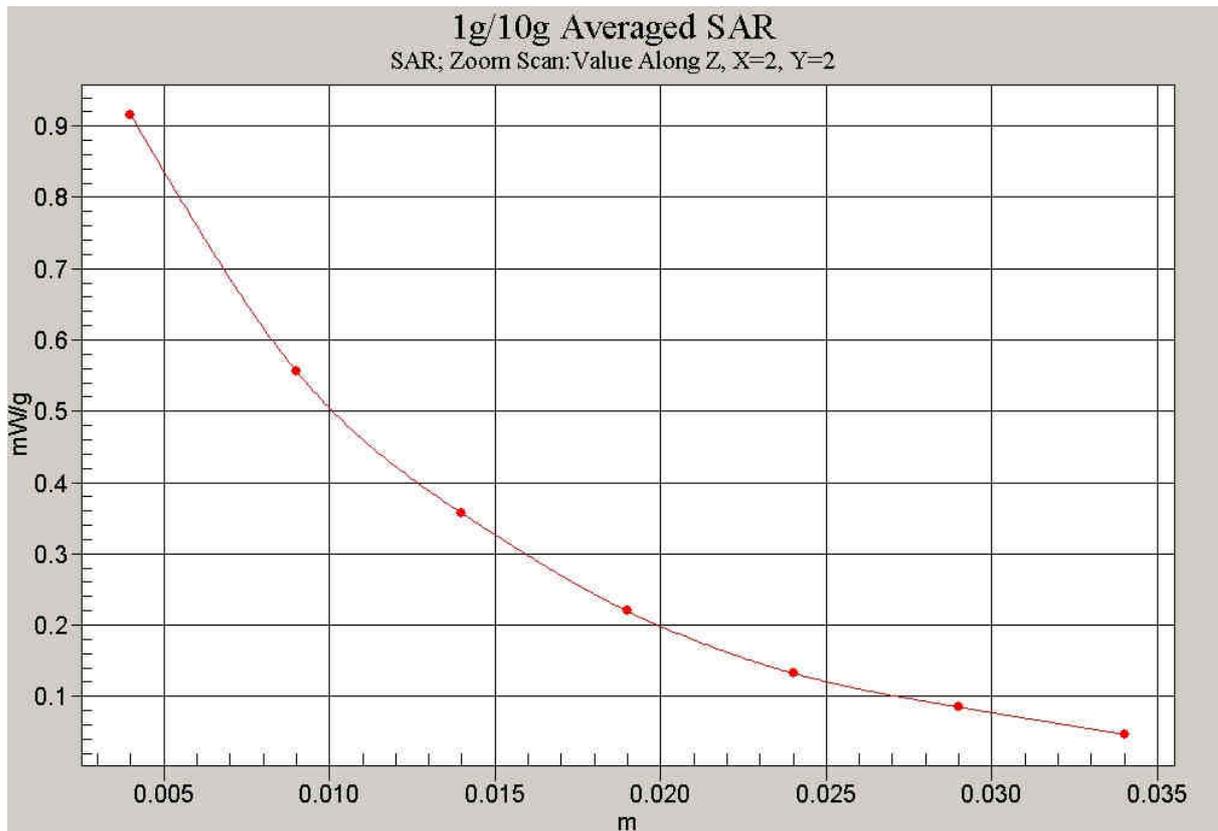
Fig.228 Z-Scan at power reference point (1900MHz EGPRS CH661 Test Position 7)

ANNEX D: SYSTEM VALIDATION RESULTS

835MHzDAE589Probe1736

Electronics: DAE3 Sn536

Medium: 835 Head

Medium parameters used (interpolated): f = 835 MHz; σ = 0.88 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3

Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.3^{o}C

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

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

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

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

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

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

Peak SAR (extrapolated) = 3.67 W/kg

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

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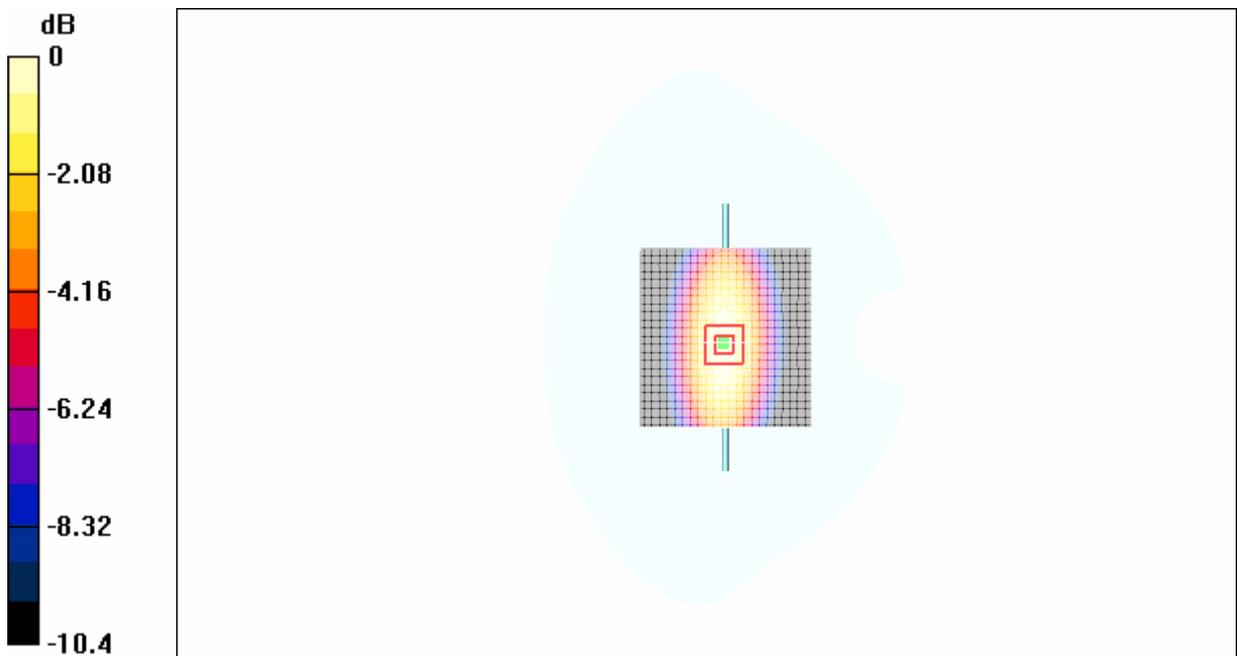
0 dB = 2.69mW/g

Fig.229 validation 835MHz 250mW

1900MHzDAE536Probe1736
Electronics: DAE3 Sn536
Medium: 1900 Head
Medium parameters used (interpolated): f = 1900MHz; σ = 1.45 mho/m; ε_r = 39.2; ρ = 1000 kg/m^3
Ambient Temperature:23.3^{o}C   Liqiud Temperature: 22.3^{o}C
Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1
Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

System Validation/Area Scan (101x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 11.2 mW/g

System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 92.1 V/m; Power Drift = 0.1 dB
Peak SAR (extrapolated) = 16.9 W/kg
SAR(1 g) = 9.91 mW/g; SAR(10 g) = 5.27 mW/g
Maximum value of SAR (measured) = 11.3 mW/g

0 dB = 11.3mW/g

Fig.230 validation 1900MHz 250mW
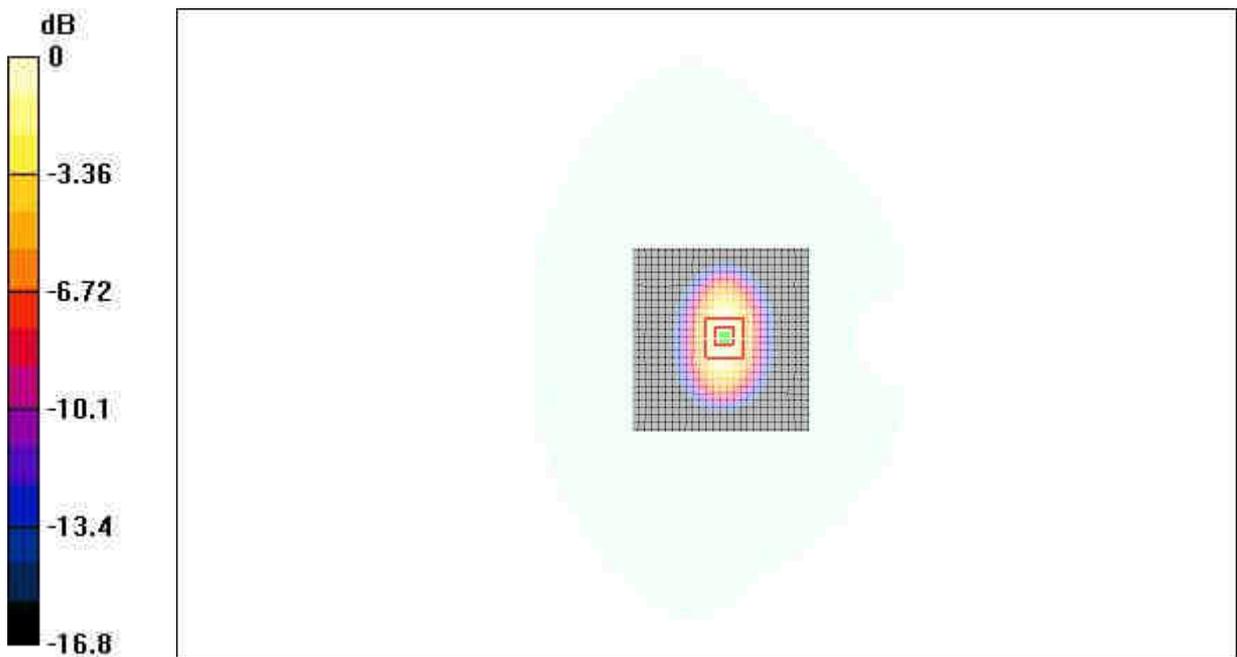
ANNEX E： PROBE CALIBRATION CERTIFICATE

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

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

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

Accreditation No.: **SCS 108**

Client **TMC China**   Certificate No: **ET3DV6-1736_Dec06**

CALIBRATION CERTIFICATE

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

This calibration certify documents the traceability to national standards, which realize the physical units of measurements(SI).
All calibrations have been conducted at an environment temperature $(22\pm3)^0$C and humidity<70%

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Data (Calibrated by, Certification NO.)	Scheduled Calibration
Power meter E4419B	GB341293874	22-May-06 (METAS, NO. 251-00466)	May-07
Power sensor E4412A	MY41495277	22-May-06 (METAS, NO. 251-00466)	May-07
Power sensor E4412A	MY41498087	22-May-06 (METAS, NO. 251-00466)	May-07
Reference 20 dB Attenuator	SN:S5086 (20b)	22-May-06 (METAS, NO. 251-00467)	May-07
Reference Probe ES3DV2	SN:S5086 (20b)	22-May-06 (METAS, NO. 251-00467)	May-07
DAE4	SN:3013	13-Jan-06 (SPEAG, NO. ES3-3013_Jan06)	Jan-07
Reference Probe ES3DV2	SN: 907	11-Jun-06 (SPEAG, NO.DAE4-907_Jun06)	Jun-07

Secondary Standards	ID#	Check Data (in house)	Scheduled Calibration
RF generator HP8648C	US3642U01700	4-Dec-05(SPEAG, in house check Dec-03)	In house check: Dec-09
Network Analyzer HP 8753E	US37390585	10-Nov-05(SPEAG, NO. DAE4-901_Nov-04)	In house check: Nov-09

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

Issued: December 1, 2006

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

Certificate No: ET3DV6-1736_Dec06   Page 1 of 9

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

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

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

Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConF	sensitivity in TSL / NORMx,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., ϑ = 0 is normal to probe axis

Calibration is Performed According to the Following Standards:
   a) 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
   b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

Methods Applied and Interpretation of Parameters:
   - *NORMx,y,z*: Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E^2-field uncertainty inside TSL (see below *ConF*).

   - *NORM(f)x,y,z = NORMx,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 *ConF*.

   - *DCPx,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.

   - *ConF and Boundary Effect Parameters*: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 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 NORMx,y,z * ConF whereby the uncertainty corresponds to that given for *ConF*. A frequency dependent *ConF* 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.

Probe ET3DV6

SN: 1736

Manufactured:	September 27, 2002
Last calibrated:	November 25, 2005
Recalibrated:	December 1, 2006

Calibrated for DASY System

ET3DV6 SN: 1736   December 1, 2006

DASY - Parameters of Probe: ET3DV6 SN:1736

Sensitivity in Free Space[A]   Diode Compression[B]

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

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL   900 MHz   Typical SAR gradient: 5 % per mm

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR_{be} [%]	Without Correction Algorithm	9.6	5.0
SAR_{be} [%]	With Correction Algorithm	0.1	0.3

TSL   1810 MHz   Typical SAR gradient: 10 % per mm

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR_{be} [%]	Without Correction Algorithm	13.2	8.8
SAR_{be} [%]	With Correction Algorithm	0.6	0.1

Sensor Offset

Probe Tip to Sensor Center   2.7 mm

Certificate No: ET3DV6-1736_Dec06   Page 4 of 9
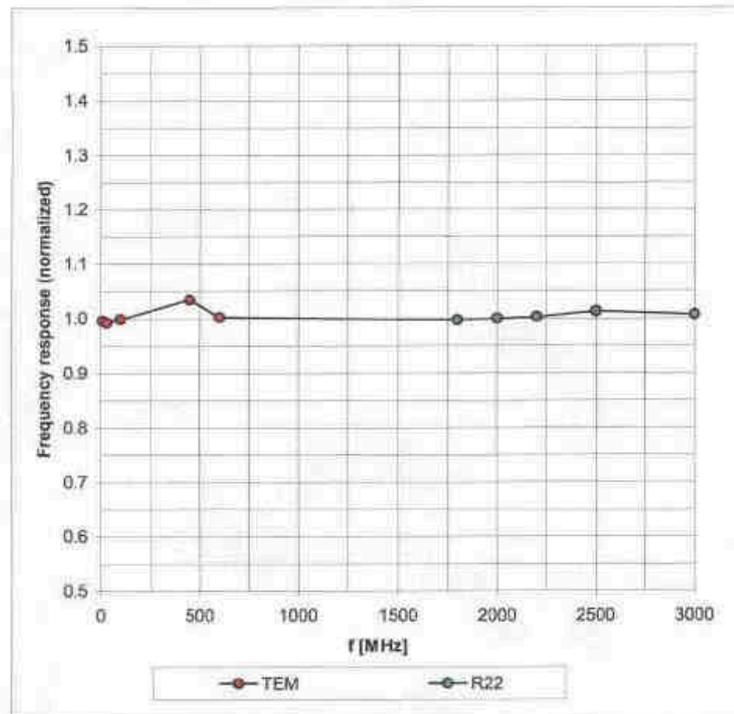
ET3DV6 SN: 1736   December 1, 2006

Frequency Response of E-Field

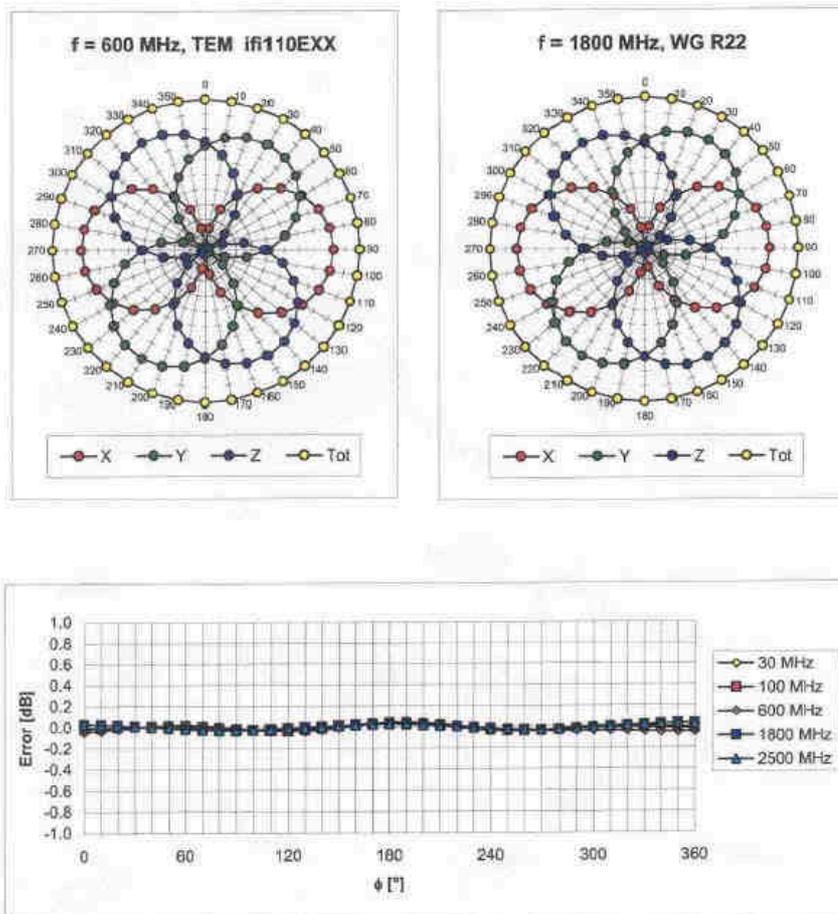### (TEM-Cell:ifi110 EXX, Waveguide: R22)

Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

ET3DV6 SN: 1736   December 1, 2006

Receiving Pattern (φ), ϑ = 0°

f = 600 MHz, TEM ifi110EXX

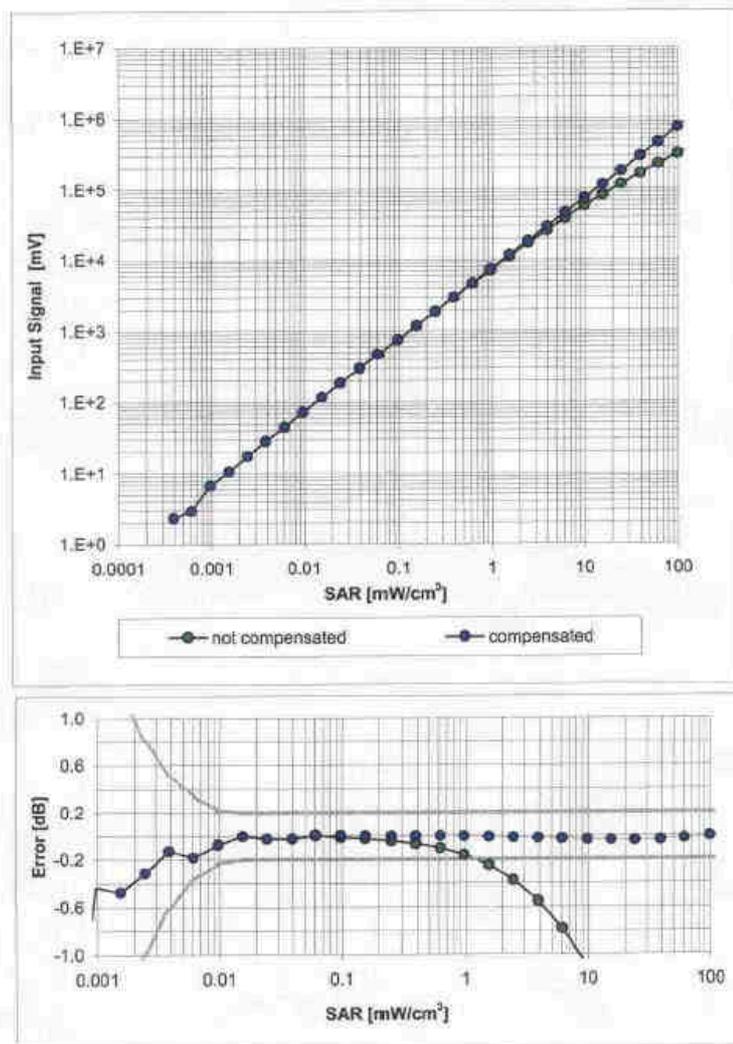f = 1800 MHz, WG R22

Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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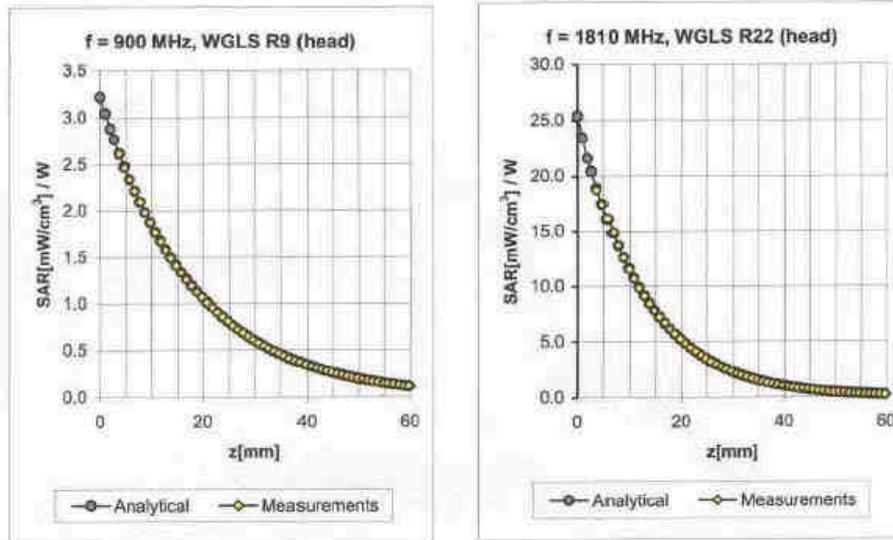## Dynamic Range f(SAR$_{head}$)
(Waveguide R22, f = 1800 MHz)

Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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Conversion Factor Assessment

f = 900 MHz, WGLS R9 (head)

f = 1810 MHz, WGLS R22 (head)

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

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Deviation from Isotropy in HSL
Error (φ, ϑ), f = 900 MHz
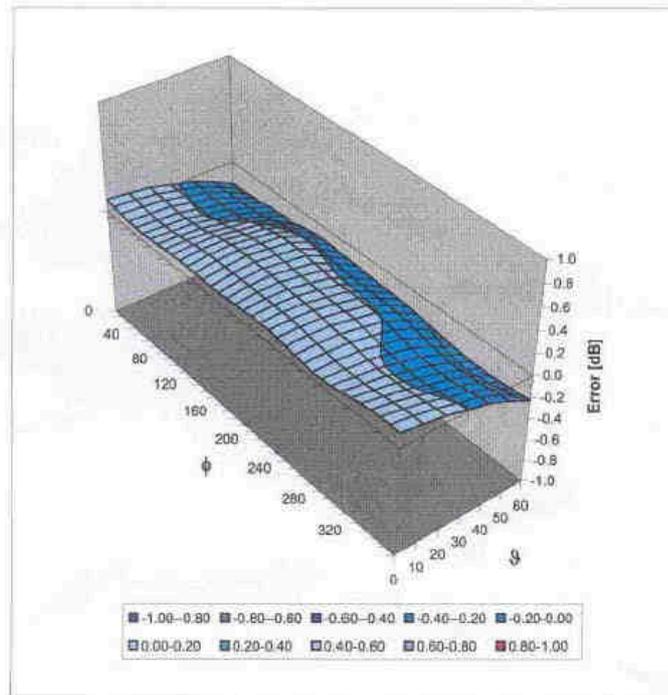
Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)