

ATTACHMENT O – SAR TEST PLOTS -2/2-

Test Laboratory: HCT

Company : Smart Networks Limited

Mode : GSM850(BODY) / Channel : 190

Liquid Temperature : 22.1 °C / Ambient Temperature : 22.4 °C

Date Tested : June 08, 2006

DUT: SP-120; Type: Bar; Serial: #1

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

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.959$ mho/m; $\epsilon_r = 56.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(6.42, 6.42, 6.42); Calibrated: 2006-03-23

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn447; Calibrated: 2005-11-30

- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 190/Area Scan (51x91x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm

Info: Interpolated medium parameters used for SAR evaluation.

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

GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm

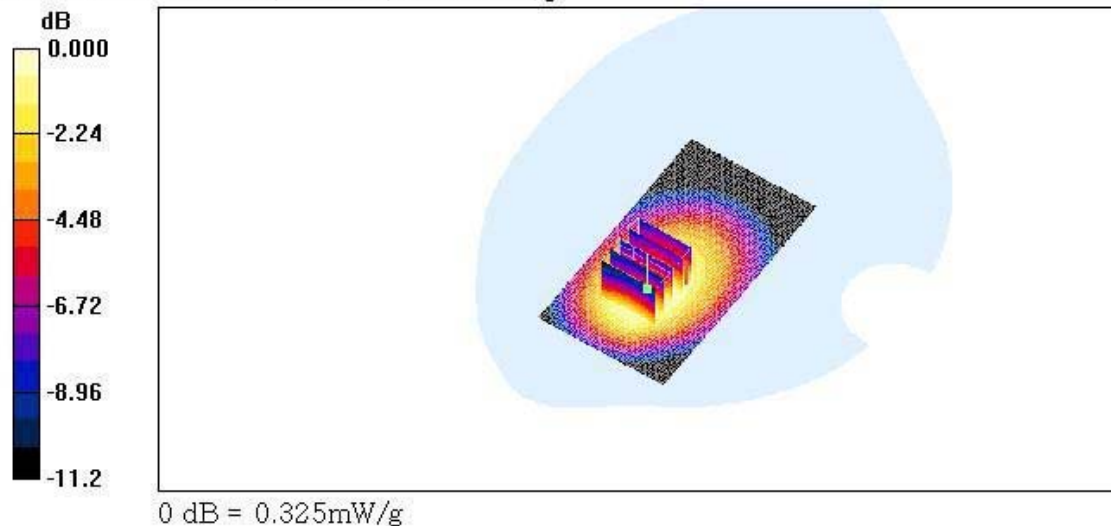
Reference Value = 7.91 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.414 W/kg

SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.215 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.325 mW/g



Test Laboratory: HCT

Company : Smart Networks Limited
Mode : GSM850 (Body) / Channel : 190(Front)
Liquid Temperature : 22.1 °C / Ambient Temperature : 22.4 °C
Date Tested : June 08, 2006

DUT: SP-120; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium parameters used (interpolated): $f = 836.6 \text{ MHz}$; $\sigma = 0.959 \text{ mho/m}$; $\epsilon_r = 56.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(6.42, 6.42, 6.42); Calibrated: 2006-03-23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn447; Calibrated: 2005-11-30
- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 190/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.179 mW/g

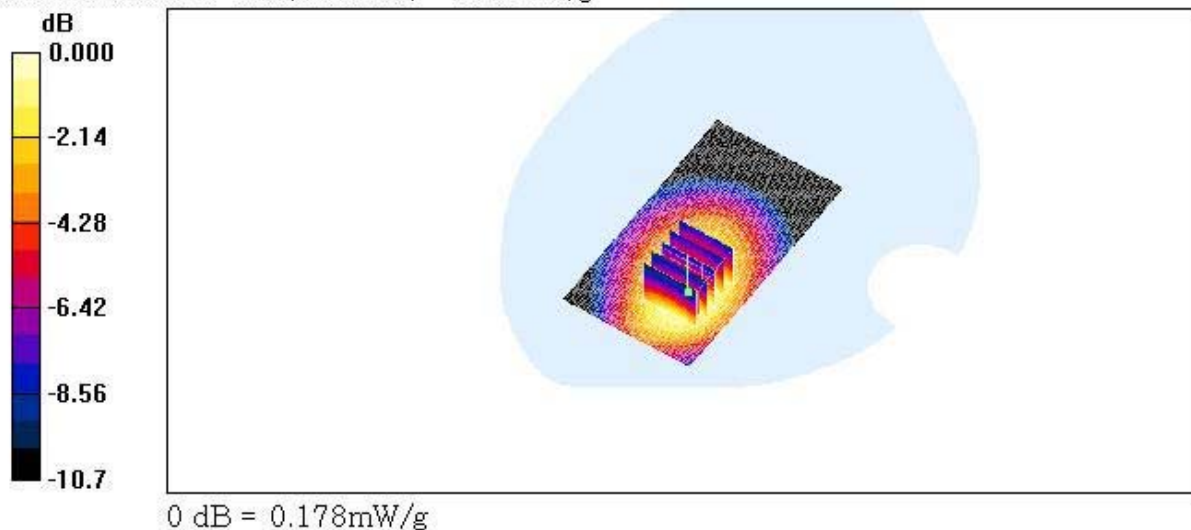
GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.88 V/m; Power Drift = 0.184 dB

Peak SAR (extrapolated) = 0.231 W/kg

SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.115 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.178 mW/g



Test Laboratory: HCT

Company : Smart Networks Limited

Mode : GSM1900(BODY) / Channel : 661

Liquid Temperature : 22.1 °C / Ambient Temperature : 22.4 °C

Date Tested : June 08, 2006

DUT: SP-120; Type: Bar; Serial: #1

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(4.63, 4.63, 4.63); Calibrated: 2006-03-23

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn447; Calibrated: 2005-11-30

- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 661/Area Scan (51x91x1): Measurement grid: $\Delta x = 15$ mm, $\Delta y = 15$ mm

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

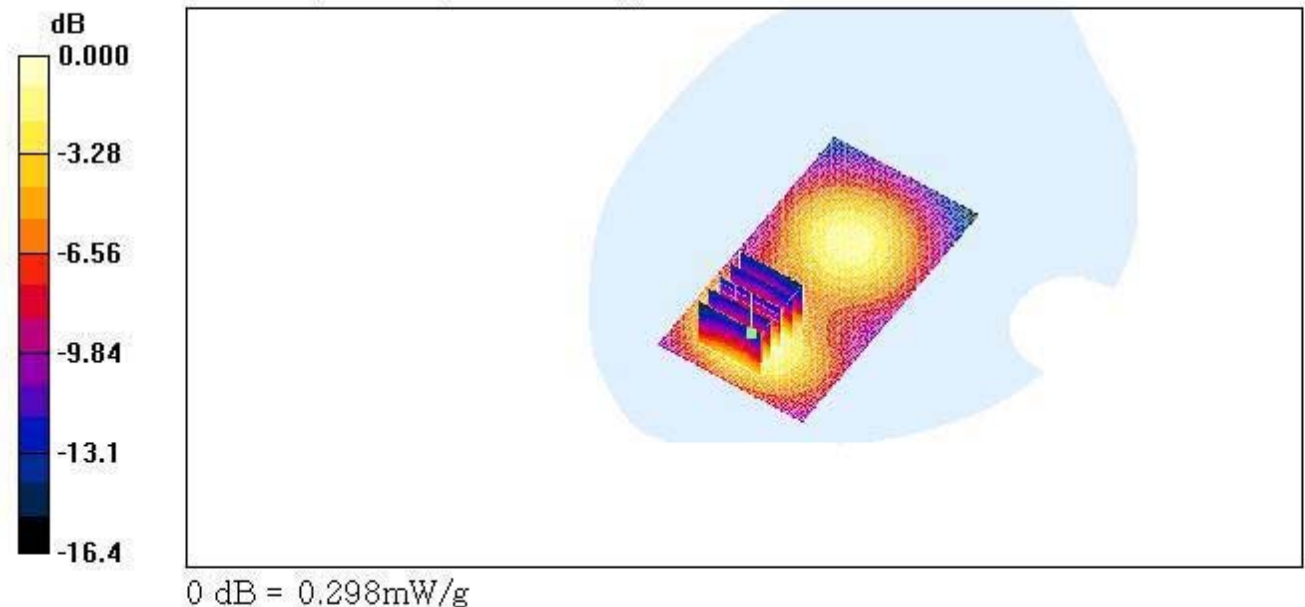
GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $\Delta x = 8$ mm, $\Delta y = 8$ mm, $\Delta z = 5$ mm

Reference Value = 9.77 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 0.442 W/kg

SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.160 mW/g

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



Test Laboratory: HCT

Company : Smart Networks Limited

Mode : GSM1900 (Body) / Channel : 661(Front)

Liquid Temperature : 22.1 °C / Ambient Temperature : 22.4 °C

Date Tested : June 08, 2006

DUT: SP-120; Type: Bar; Serial: #1

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(4.63, 4.63, 4.63); Calibrated: 2006-03-23

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn447; Calibrated: 2005-11-30

- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 661/Area Scan (51x91x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

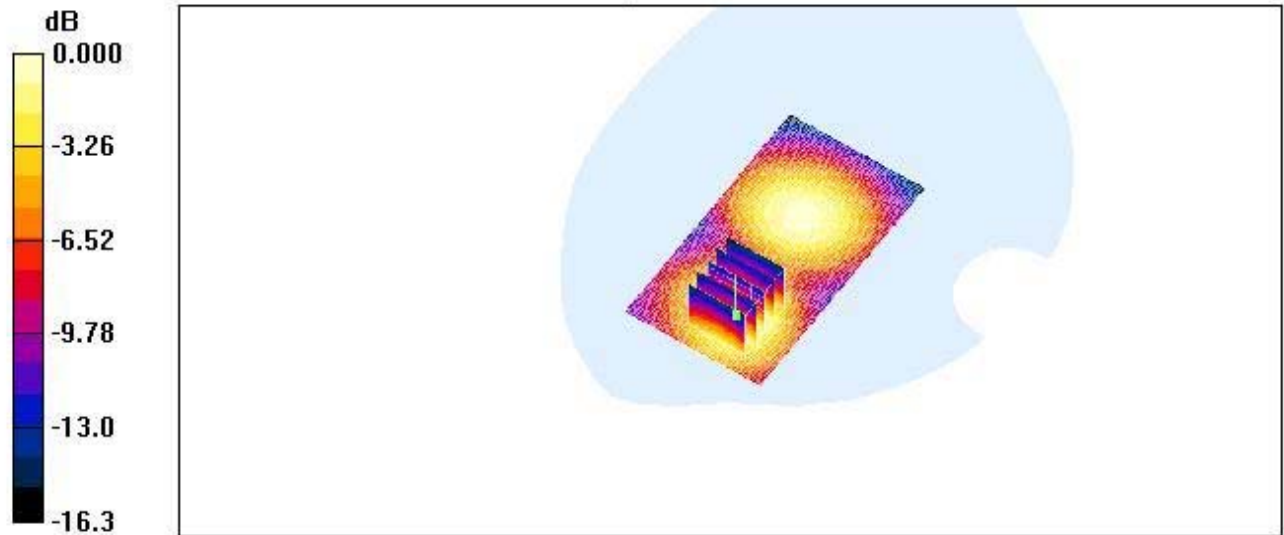
GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.1 V/m; Power Drift = -0.178 dB

Peak SAR (extrapolated) = 0.408 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.151 mW/g

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



0 dB = 0.281mW/g

Test Laboratory: HCT

Company : Smart Networks Limited

Mode : GSM850 / Channel : 251

Liquid Temperature : 22.1 °C / Ambient Temperature : 22.4 °C

Date Tested : June 08, 2006

DUT: SP-120; Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 849.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 850$ MHz; $\sigma = 0.891$ mho/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

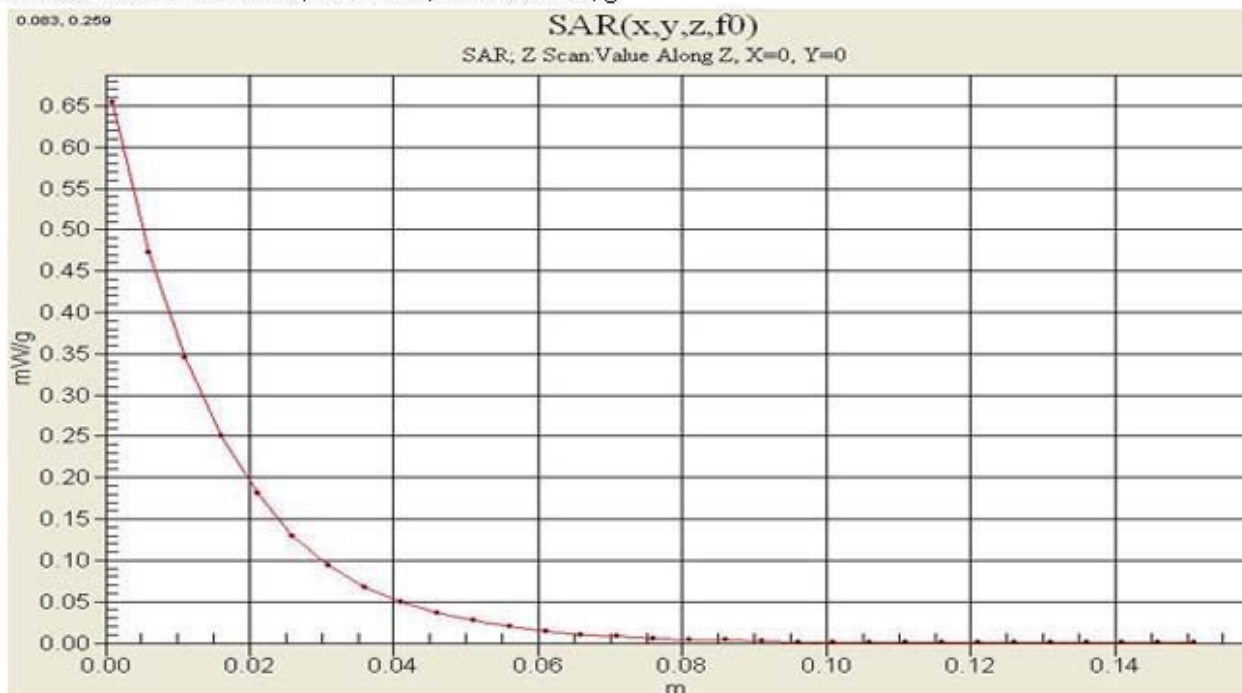
- Probe: ET3DV6 - SN1609; ConvF(6.85, 6.85, 6.85); Calibrated: 2006-03-23

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn447; Calibrated: 2005-11-30

- Phantom: SAM 835/900 MHz; Type: SAM

Left touch 251/Z Scan (1x1x31): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm
Maximum value of SAR (measured) = 0.655 mW/g



Test Laboratory: HCT

Company : Smart Networks Limited
Mode : GSM850 Body/ Channel : 190
Liquid Temperature : 22.1 °C / Ambient Temperature : 22.4 °C
Date Tested : June 08, 2006

DUT: SP-120; Type: Bar; Serial: #1

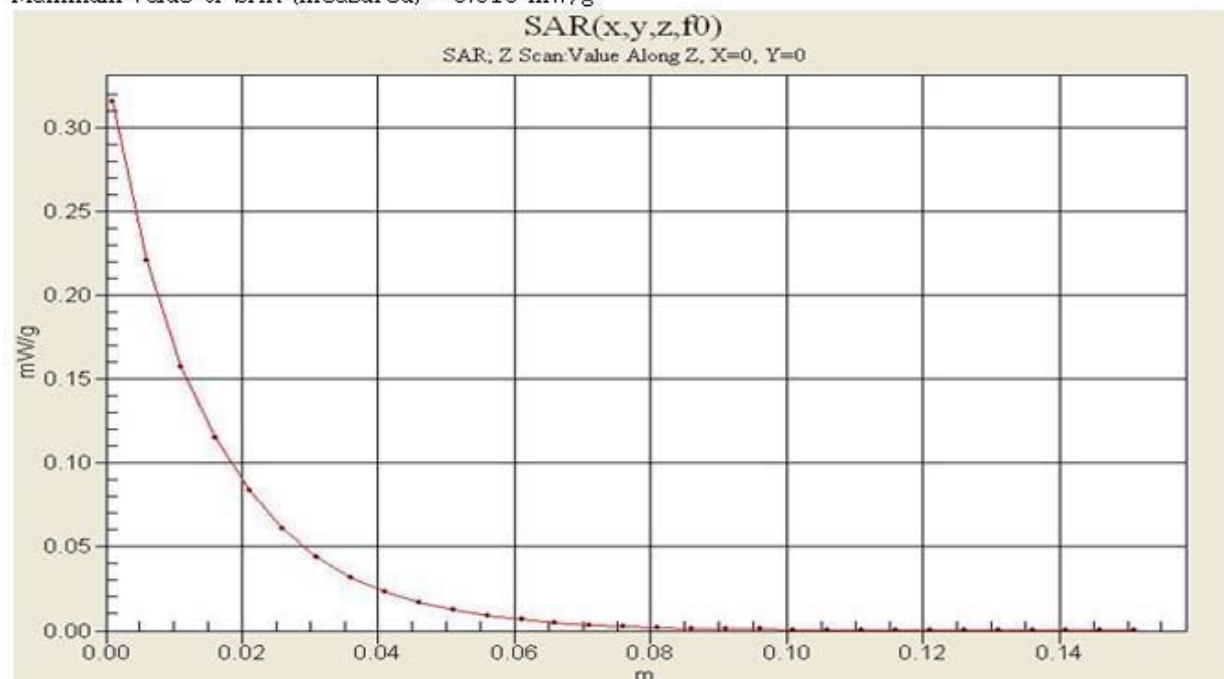
Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.959$ mho/m; $\epsilon_r = 56.2$; $\rho = 1000$ kg/m³
Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(6.42, 6.42, 6.42); Calibrated: 2006-03-23
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2005-11-30
- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 190/Z Scan (1x1x31): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.316 mW/g



Test Laboratory: HCT

Company : Smart Networks Limited

Mode : GSM1900 / Channel : 512

Liquid Temperature : 22.1 °C / Ambient Temperature : 22.4 °C

Date Tested : June 08, 2006

DUT: SP-120; Type: Bar; Serial: #1

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

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609, ConvF(5.16, 5.16, 5.16); Calibrated: 2006-03-23

- Sensor-Surface: 0mm (Fix Surface)

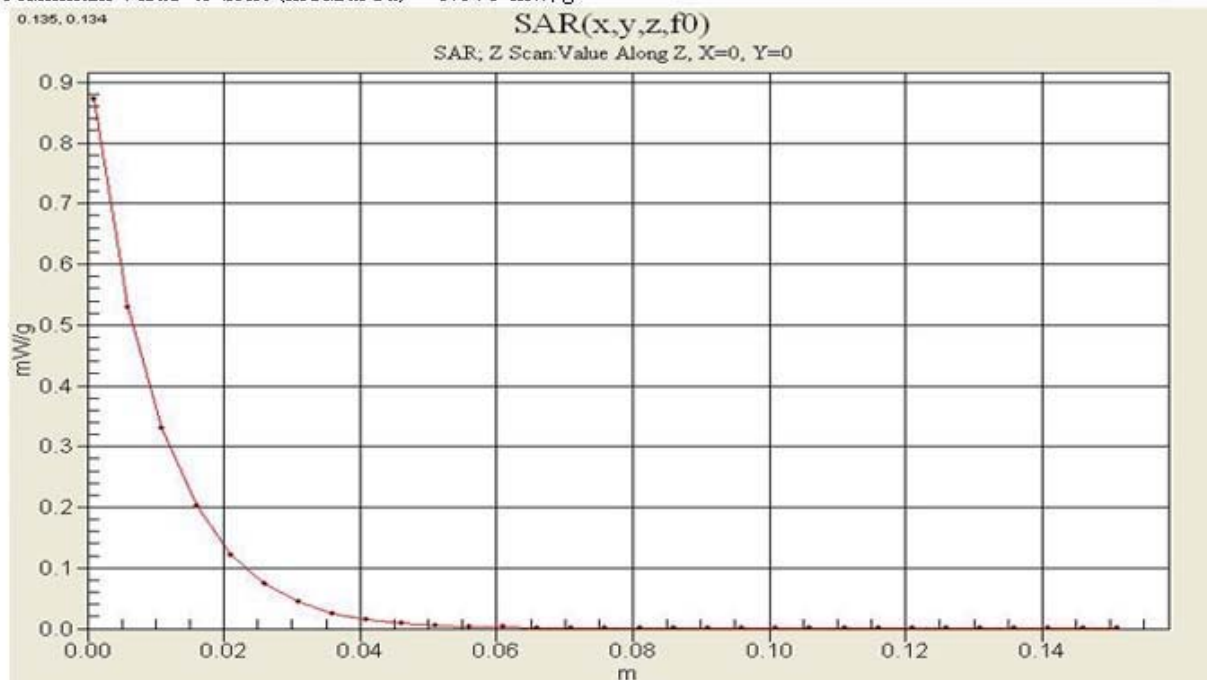
- Electronics: DAE4 Sn447; Calibrated: 2005-11-30

- Phantom: SAM 1800/1900 MHz; Type: SAM

Right touch 512/Z Scan (1x1x31): Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=5$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.873 mW/g



Test Laboratory: HCT

Company : Smart Networks Limited

Mode : GSM1900Body/ Channel : 661

Liquid Temperature : 22.1 °C / Ambient Temperature : 22.4 °C

Date Tested : June 08, 2006

DUT: SP-120; Type: Bar; Serial: #1

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Measurement SW: DASY4, V4.6 Build 23

DASY4 Configuration:

- Probe: ET3DV6 - SN1609; ConvF(4.63, 4.63, 4.63); Calibrated: 2006-03-23

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn447; Calibrated: 2005-11-30

- Phantom: SAM 1800/1900 MHz; Type: SAM

GSM1900 Body 661/Z Scan (1x1x31): Measurement grid: $\Delta x = 20$ mm, $\Delta y = 20$ mm, $\Delta z = 5$ mm
Maximum value of SAR (measured) = 0.260 mW/g

