

## APPENDIX A – SAR TEST PLOTS (3 of 3)

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Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM850 / Channel : 128(BODY)  
Liquid Temperature : 21.4 °C  
Date Tested : February 22, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

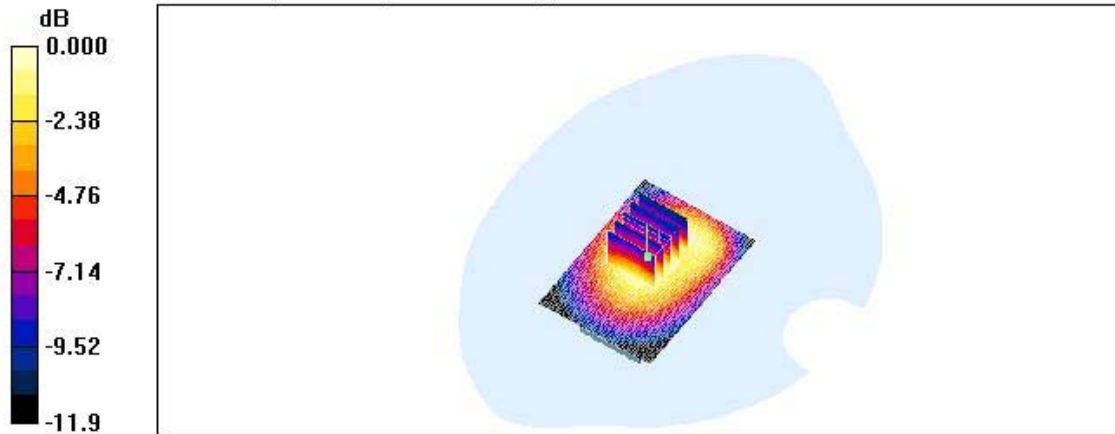
Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.975$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

**GSM850 Body 128/Area Scan (51x71x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (interpolated) = 0.176 mW/g

**GSM850 Body 128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 11.6 V/m; Power Drift = -0.032 dB  
Peak SAR (extrapolated) = 0.262 W/kg  
**SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.105 mW/g**  
Maximum value of SAR (measured) = 0.172 mW/g



0 dB = 0.172mW/g

Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM850 / Channel : 128 (GPRS)  
Liquid Temperature : 21.4 °C  
Date Tested : February 22, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

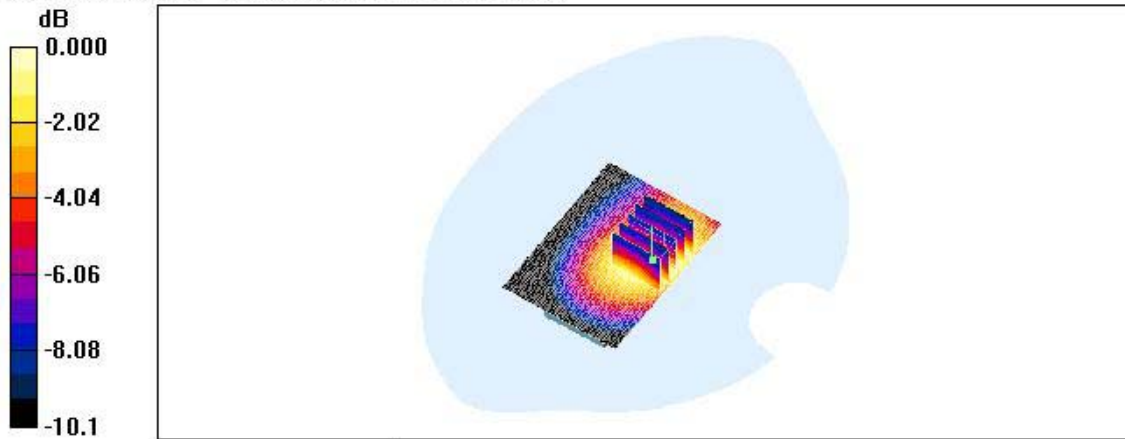
Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.975$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

**GSM850 Body 128/Area Scan (51x71x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.050 mW/g

**GSM850 Body 128/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 5.72 V/m; Power Drift = 0.094 dB  
Peak SAR (extrapolated) = 0.064 W/kg  
**SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.032 mW/g**  
Maximum value of SAR (measured) = 0.049 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM850 / Channel : 190(BODY)  
Liquid Temperature : 21.4 °C  
Date Tested : February 22, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607, ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

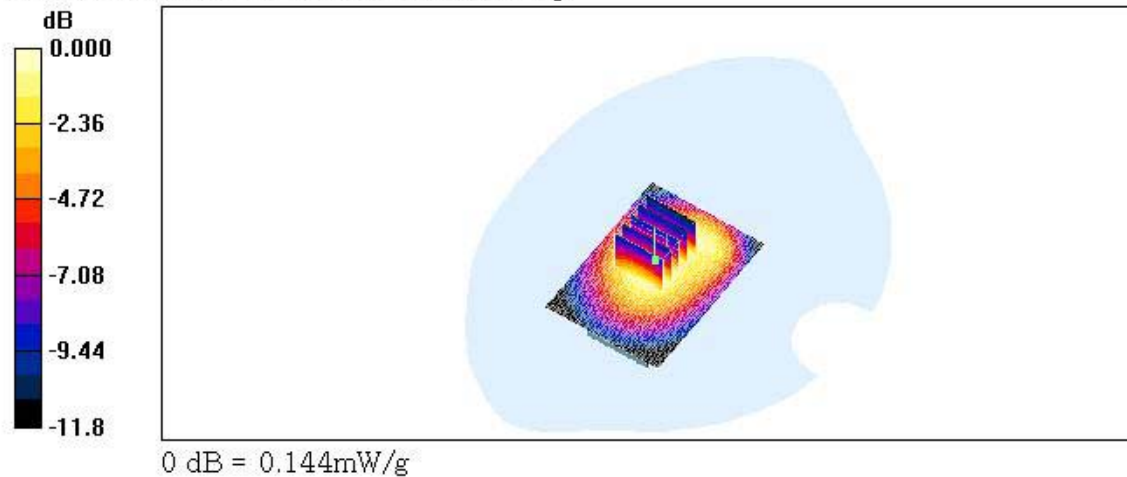
**GSM850 Body 190/Area Scan (51x71x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 0.146 mW/g

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

Reference Value = 10.4 V/m; Power Drift = -0.083 dB  
Peak SAR (extrapolated) = 0.211 W/kg  
**SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.087 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (measured) = 0.144 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM850 / Channel : 190(front)  
Liquid Temperature : 21.4 °C  
Date Tested : March 08, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.987$  mho/m;  $\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

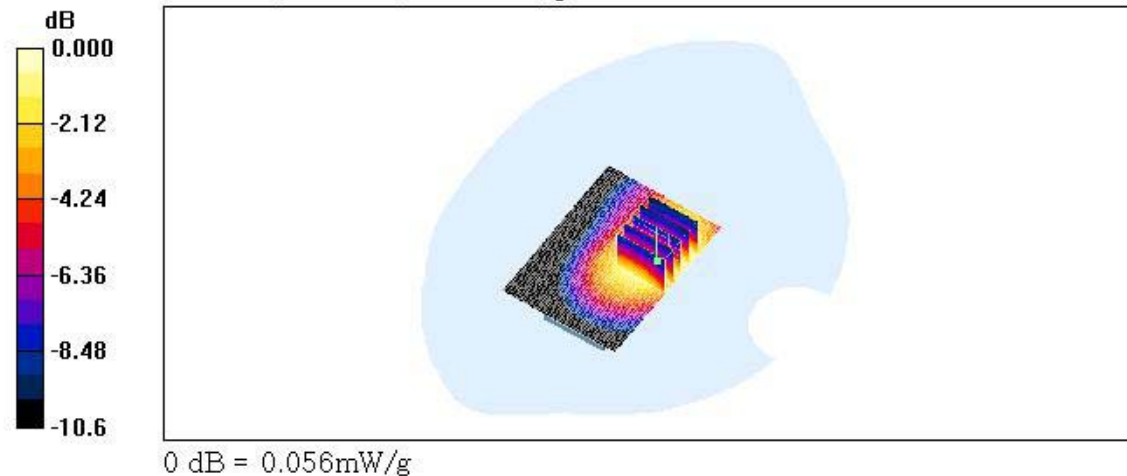
**GSM850 Body 190/Area Scan (51x71x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 0.058 mW/g

**GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm.

Reference Value = 5.92 V/m; Power Drift = 0.023 dB  
Peak SAR (extrapolated) = 0.077 W/kg  
**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.035 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (measured) = 0.056 mW/g





Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM850 / Channel : 251(BODY)  
Liquid Temperature : 21.4 °C  
Date Tested : February 22, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

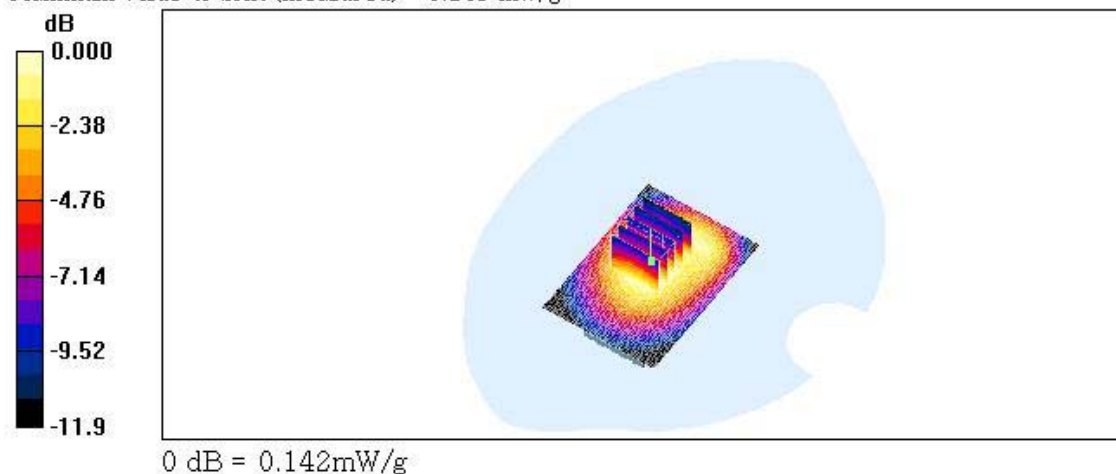
Communication System: GSM 850; Frequency: 849.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 850$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

**GSM850 Body 251/Area Scan (51x71x1):** Measurement grid:  $\Delta x = 15$ mm,  $\Delta y = 15$ mm  
Maximum value of SAR (interpolated) = 0.147 mW/g

**GSM850 Body 251/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $\Delta x = 8$ mm,  $\Delta y = 8$ mm,  $\Delta z = 5$ mm  
Reference Value = 9.99 V/m; Power Drift = -0.025 dB  
Peak SAR (extrapolated) = 0.204 W/kg  
**SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.086 mW/g**  
Maximum value of SAR (measured) = 0.142 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM1900 / Channel : 512(BODY)  
Liquid Temperature : 21.4 °C  
Date Tested : February 22, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

**GSM1900 Body 512/Area Scan (51x71x1):** Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (interpolated) = 0.244 mW/g

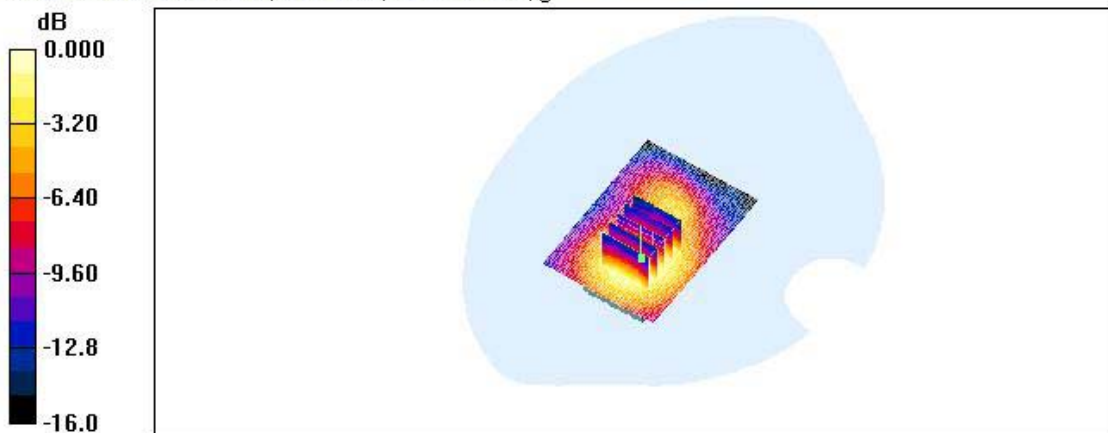
**GSM1900 Body 512/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.23 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 0.327 W/kg

**SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.136 mW/g**

Info: Interpolated medium parameters used for SAR evaluation.  
Maximum value of SAR (measured) = 0.240 mW/g



0 dB = 0.240mW/g

Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM1900 / Channel : 661(BODY)  
Liquid Temperature : 21.4 °C  
Date Tested : February 22, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

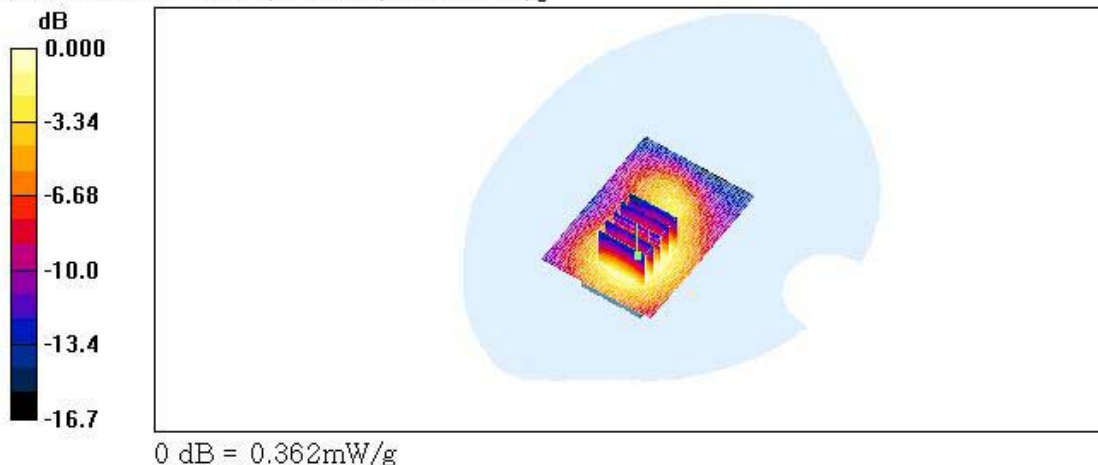
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

**GSM1900 Body 661/Area Scan (51x71x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (interpolated) = 0.368 mW/g

**GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 11.9 V/m; Power Drift = -0.070 dB  
Peak SAR (extrapolated) = 0.495 W/kg  
**SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.204 mW/g**  
Maximum value of SAR (measured) = 0.362 mW/g





Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM1900 / Channel : 661 (GPRS)  
Liquid Temperature : 21.4 °C  
Date Tested : February 22, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

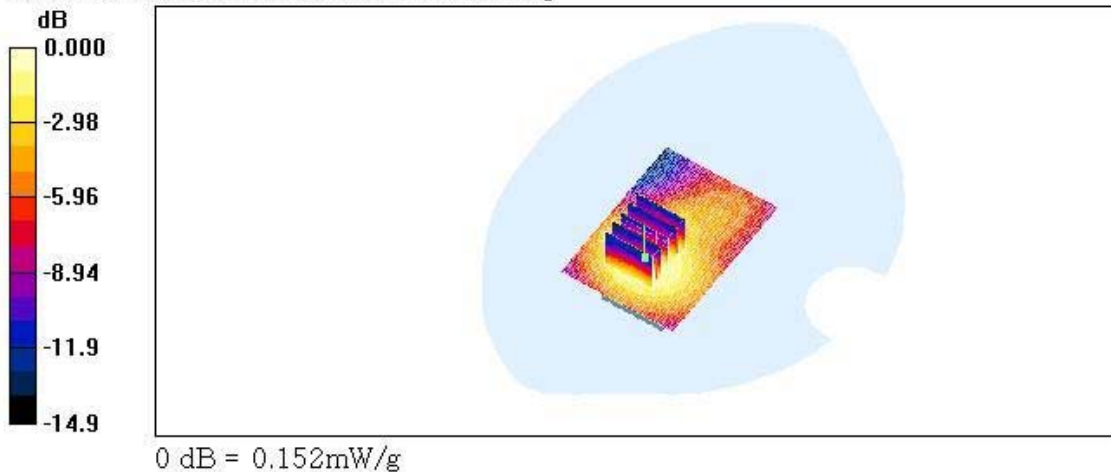
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

**GSM1900 Body 661/Area Scan (51x71x1):** Measurement grid:  $\Delta x = 15$ mm,  $\Delta y = 15$ mm  
Maximum value of SAR (interpolated) = 0.153 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 = 6.66 V/m; Power Drift = -0.043 dB  
Peak SAR (extrapolated) = 0.214 W/kg  
**SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.088 mW/g**  
Maximum value of SAR (measured) = 0.152 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM1900 / Channel : 661(front)  
Liquid Temperature : 21.4 °C  
Date Tested : March 08, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

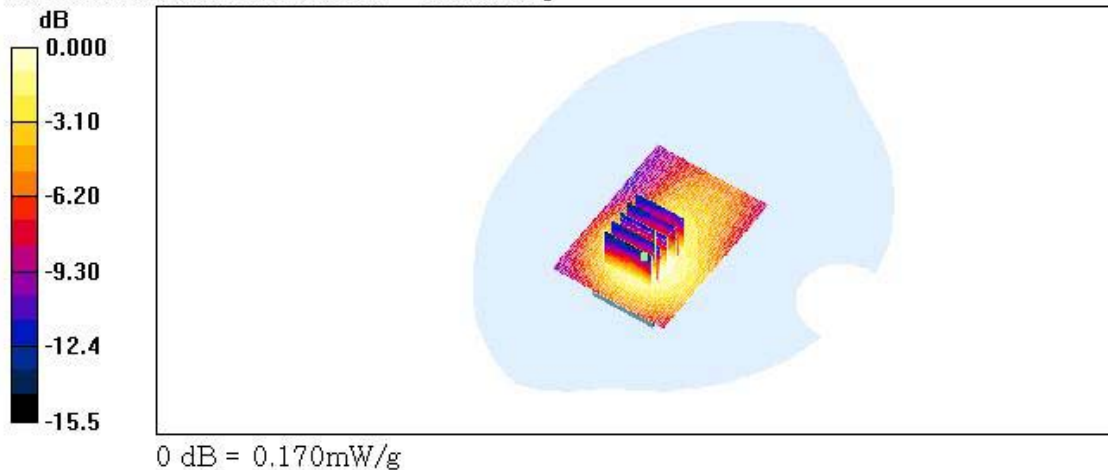
Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

**GSM1900 Body 661/Area Scan (51x71x1):** Measurement grid:  $\Delta x = 15$ mm,  $\Delta y = 15$ mm  
Maximum value of SAR (interpolated) = 0.173 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 = 8.14 V/m; Power Drift = -0.188 dB  
Peak SAR (extrapolated) = 0.233 W/kg  
**SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.101 mW/g**  
Maximum value of SAR (measured) = 0.170 mW/g



Test Laboratory: HCT

Company : Pantech co., Ltd.  
Mode : GSM1900 / Channel : 810(BODY)  
Liquid Temperature : 21.4 °C  
Date Tested : February 22, 2006

**DUT: PG-3310 Body; Type: Folder; Serial: #1**

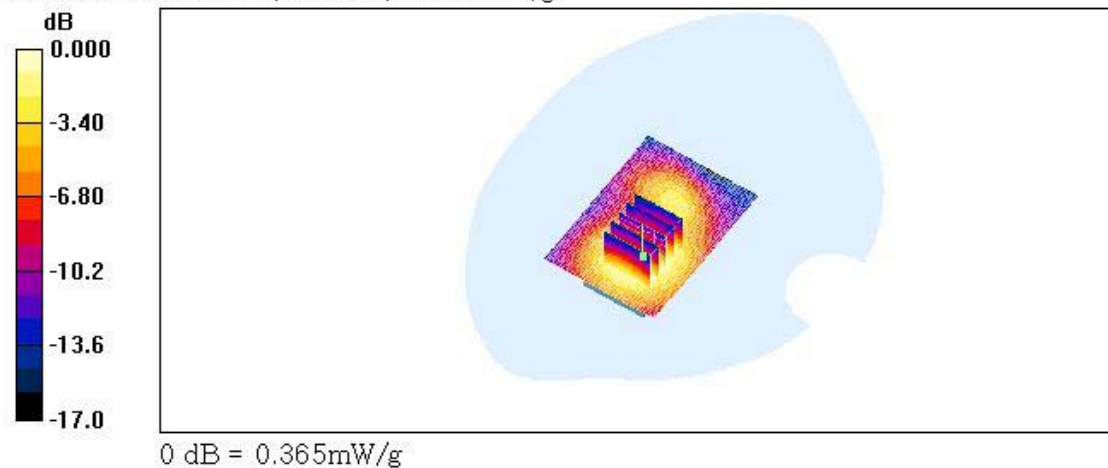
Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

**GSM1900 Body 810/Area Scan (51x71x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.370 mW/g

**GSM1900 Body 810/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.0 V/m; Power Drift = -0.041 dB  
Peak SAR (extrapolated) = 0.504 W/kg  
**SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.202 mW/g**  
Maximum value of SAR (measured) = 0.365 mW/g



DUT: PG-3310; Type: Folder; Serial: #1  
Program Name: PG-3310

Communication System: GSM 850; Frequency: 849.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 850$  MHz;  $\sigma = 0.891$  mho/m;  $\epsilon_r = 41.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

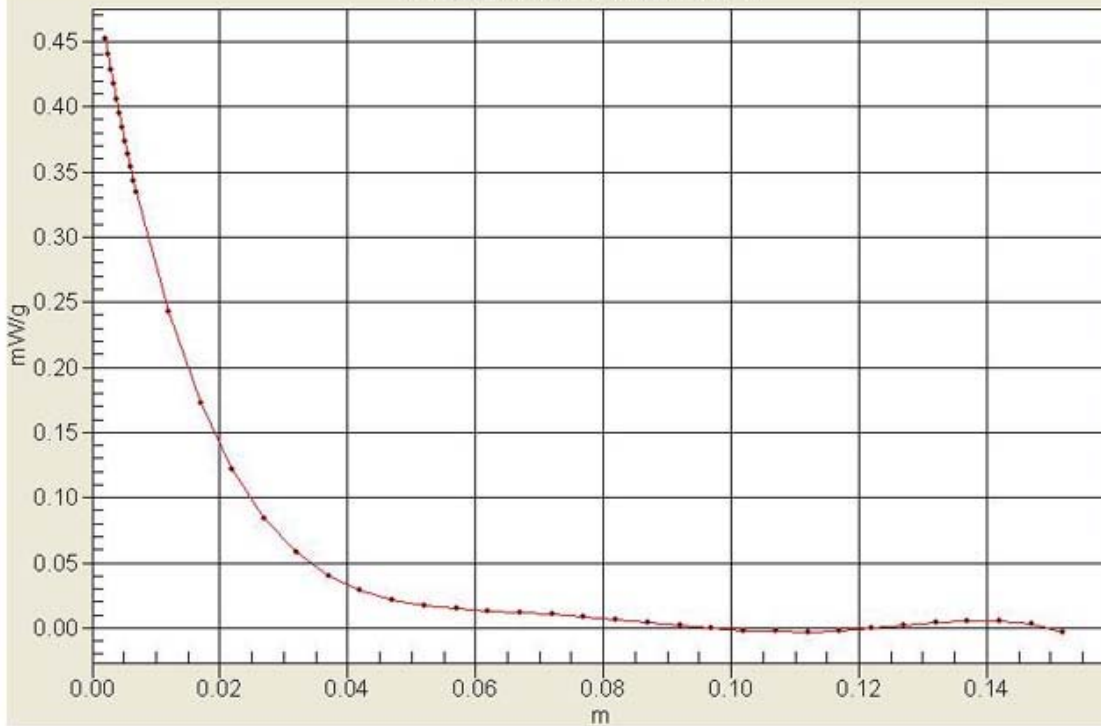
- Probe: ET3DV6 - SN1607; ConvF(6.18, 6.18, 6.18); Calibrated: 2005-08-30
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

**Right touch 251/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (interpolated) = 0.452 mW/g

0.080, 0.207

Interpolated SAR(x,y,z,f0)

SAR, Z Scan Value Along Z, X=0, Y=0



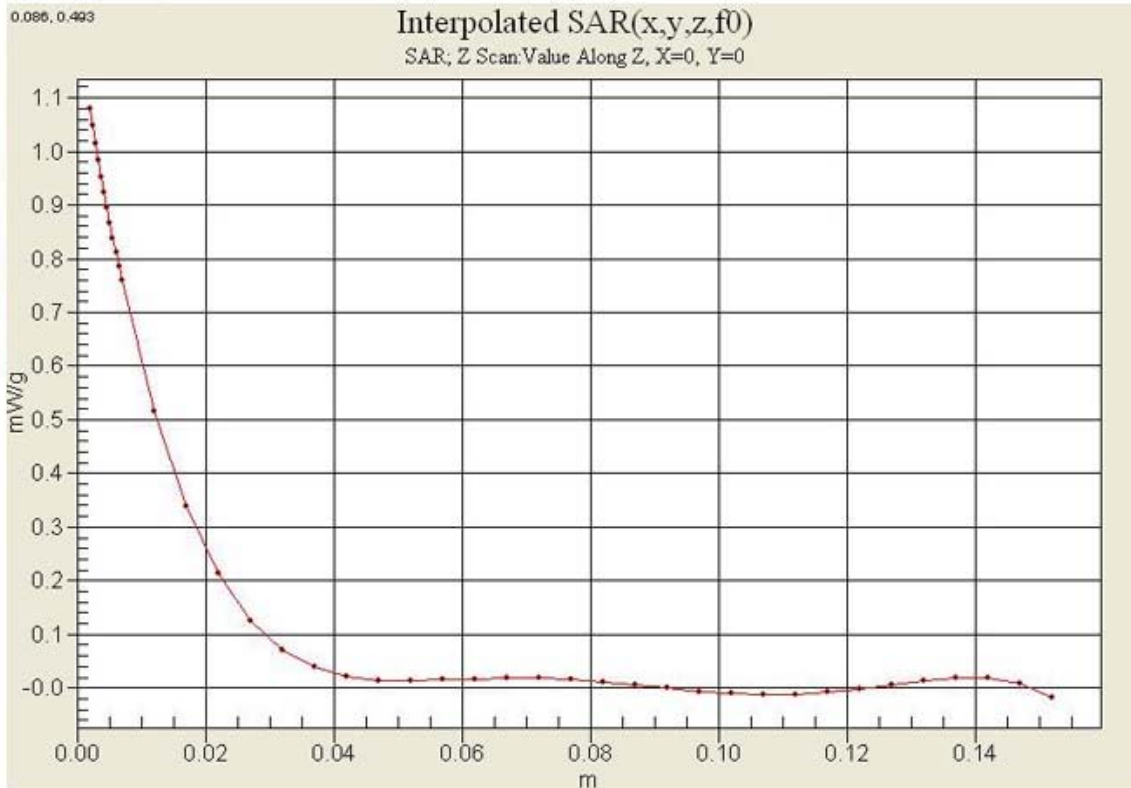
DUT: PG-3310; Type: Folder; Serial: #1  
Program Name: PG-3310

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(5.14, 5.14, 5.14); Calibrated: 2005-08-30
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 1800/1900 MHz; Type: SAM

**Right touch 661/Z Scan (1x1x41):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm  
Maximum value of SAR (interpolated) = 1.08 mW/g





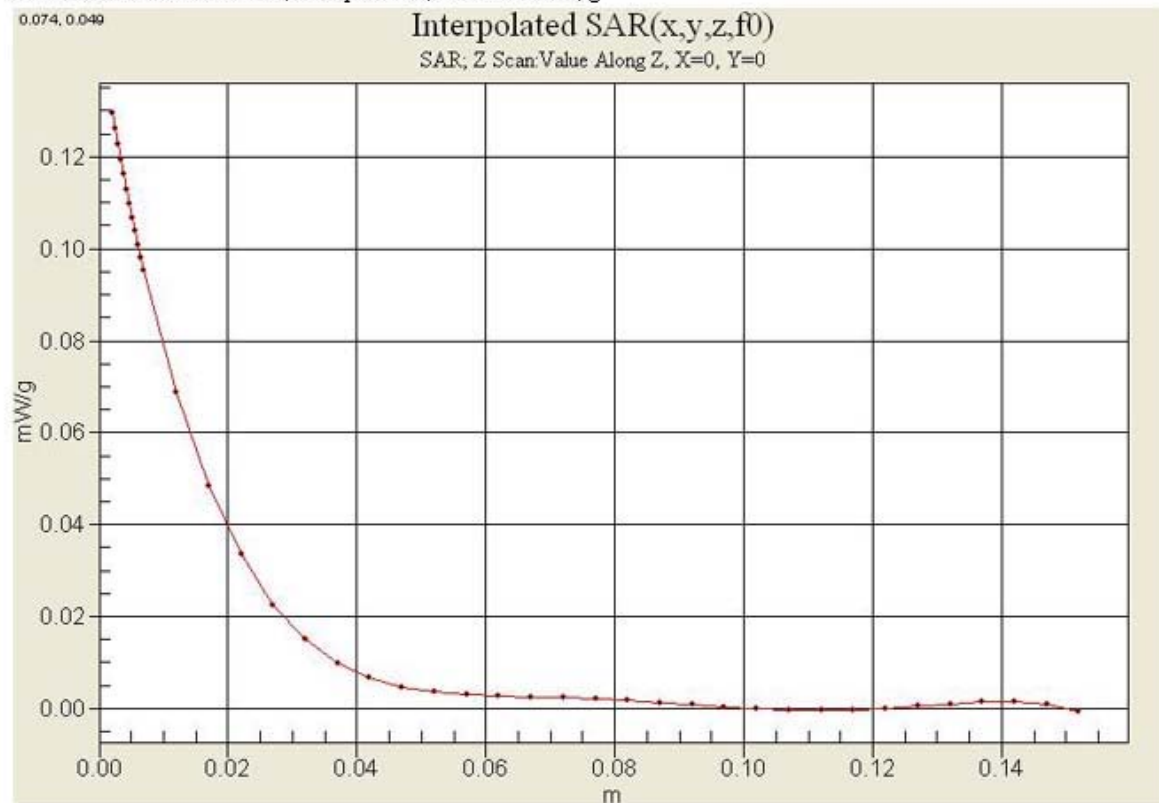
DUT: PG-3310 Body; Type: Folder; Serial: #1  
Program Name: PG-3310

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.975$  mho/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(6.27, 6.27, 6.27); Calibrated: 2005-08-30
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2005-05-24
- Phantom: SAM 835/900 MHz; Type: SAM

GSM850 Body 128/Z Scan (1x1x41): Measurement grid:  $\Delta x = 20$ mm,  $\Delta y = 20$ mm,  $\Delta z = 5$ mm  
Maximum value of SAR (interpolated) = 0.130 mW/g



DUT: PG-3310 Body; Type: Folder; Serial: #1  
Program Name: PG-3310

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1607; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-08-30

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2005-05-24

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

**GSM1900 Body 661/Z Scan (1x1x41):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm  
Maximum value of SAR (interpolated) = 0.183 mW/g

