

## **APPENDIX G**

### **Plots of The SAR Measurements**

**SAMSUNG FCC ID : A3LSGHD730 1900MHz GSM1900 Head SAR**

**DUT: SGH-D730; Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Right (Job No. : FC-084)**

**Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1; Test Date-07/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.43 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 1.25 W/kg

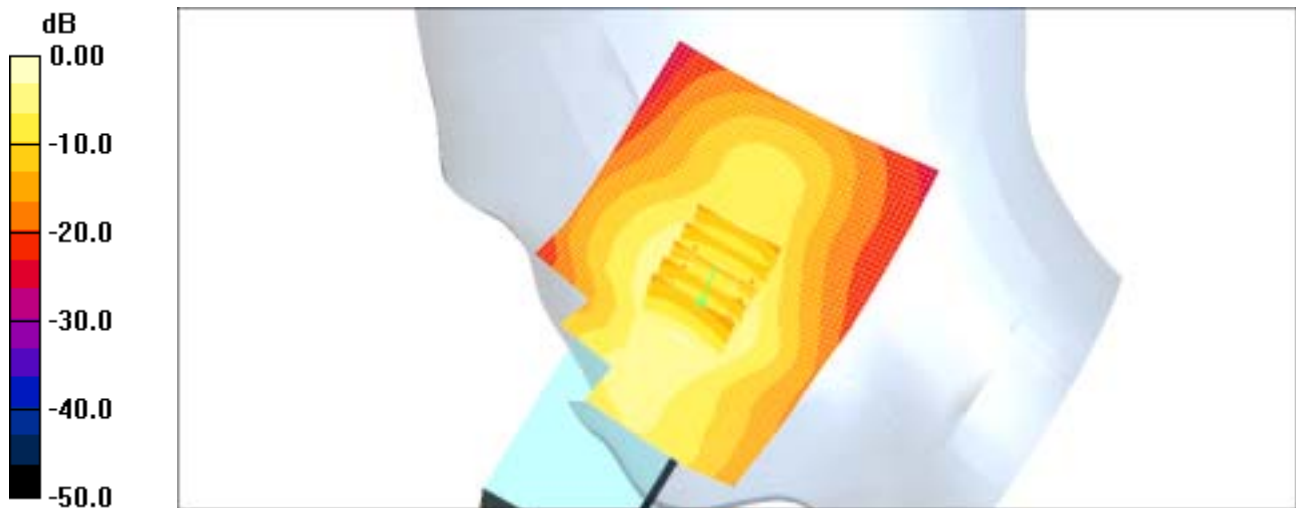
**SAR(1 g) = 0.777 mW/g**

Maximum value of SAR (measured) = 0.855 mW/g

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended/Area Scan (51x71x1):** Measurement

grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.852 mW/g



0 dB = 0.852mW/g

**SAMSUNG FCC ID : A3LSGHD730 1900MHz GSM1900 Head SAR**

**DUT: SGH-D730; Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Right (Job No. : FC-084)**

**Procedure Name: Ear/Tilt, Ch.661, Ant.Intenna, Bat.Extended**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1; Test Date-07/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Ear/Tilt, Ch.661, Ant.Intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.93 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.281 W/kg

**SAR(1 g) = 0.186 mW/g**

Maximum value of SAR (measured) = 0.196 mW/g

**Ear/Tilt, Ch.661, Ant.Intenna, Bat.Extended/Area Scan (51x71x1): Measurement grid:**

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.232 mW/g



0 dB = 0.232mW/g

**SAMSUNG FCC ID : A3LSGHD730 1900MHz GSM1900 Head SAR**

**DUT: SGH-D730; Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Left (Job No. : FC-084)**

**Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1; Test Date-07/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.99 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.01 W/kg

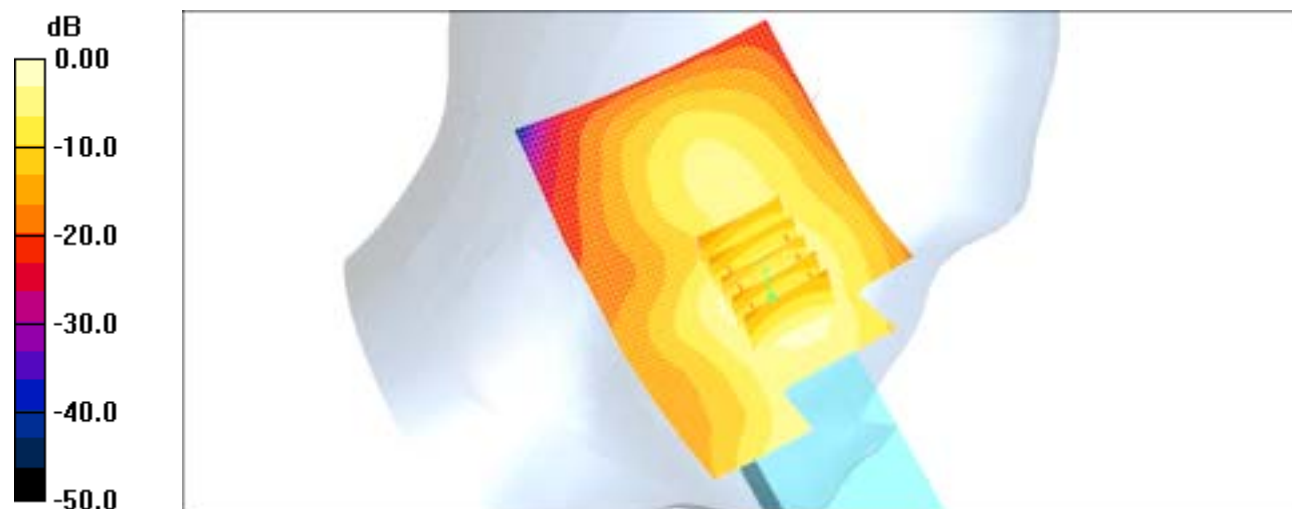
**SAR(1 g) = 0.649 mW/g**

Maximum value of SAR (measured) = 0.713 mW/g

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended/Area Scan (51x71x1):** Measurement

grid: dx=20mm, dy=20mm

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



0 dB = 0.689mW/g

**SAMSUNG FCC ID : A3LSGHD730 1900MHz GSM1900 Head SAR**

**DUT: SGH-D730; Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Left (Job No. : FC-084)**

**Procedure Name: Ear/Tilt, Ch.661, Ant.Intenna, Bat.Extended**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1; Test Date-07/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Ear/Tilt, Ch.661, Ant.Intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = 0.062 dB

Peak SAR (extrapolated) = 0.404 W/kg

**SAR(1 g) = 0.256 mW/g**

Maximum value of SAR (measured) = 0.269 mW/g

**Ear/Tilt, Ch.661, Ant.Intenna, Bat.Extended/Area Scan (51x71x1):** Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.291 mW/g



0 dB = 0.291mW/g

**SAMSUNG FCC ID : A3LSGHD730 1900MHz GSM1900 Head SAR**

**DUT: SGH-D730; Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Right (Job No. : FC-084)**

**Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended with BT on**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1; Test Date-07/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended with BT on/Zoom Scan**

**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.65 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 1.18 W/kg

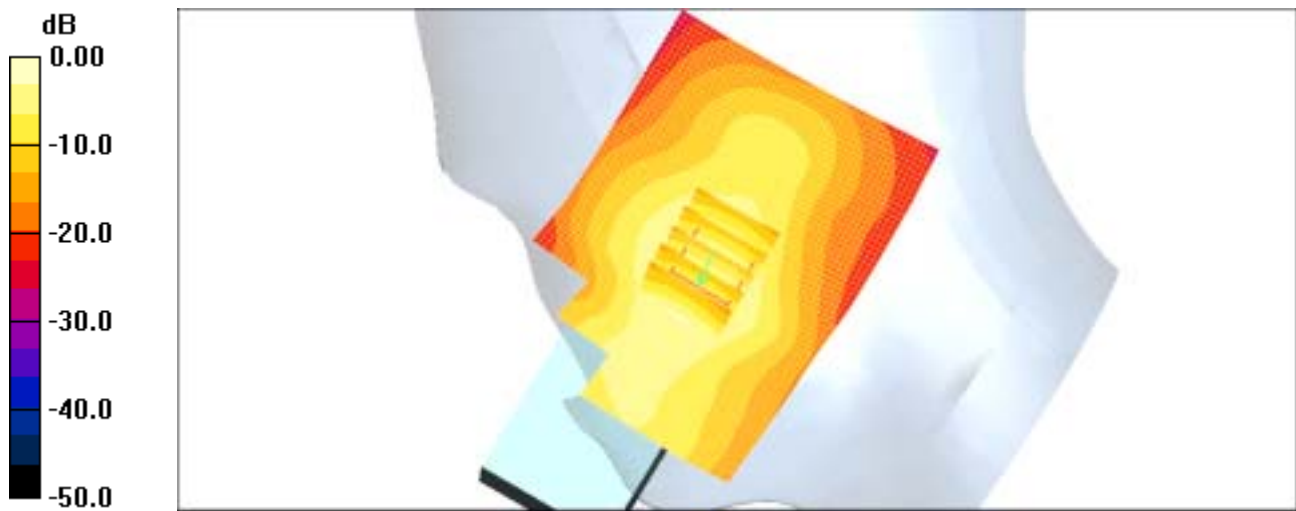
**SAR(1 g) = 0.731 mW/g**

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

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended with BT on/Area Scan (51x71x1):**

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.807 mW/g



0 dB = 0.807mW/g

**SAMSUNG FCC ID : A3LSGHD730 1900MHz GPRS1900 Body SAR**

**DUT: SGH-D730(Body); Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Body (Job No. : FC-084)**

**Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Extended**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1;Test Date-07/Jul/2005[OET Bulletin 65-Supplement C, July 2001]**

Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Body, Ch.810, Ant.Intenna, Bat.Extended/Area Scan (51x71x1):** Measurement grid:  
dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.40 mW/g

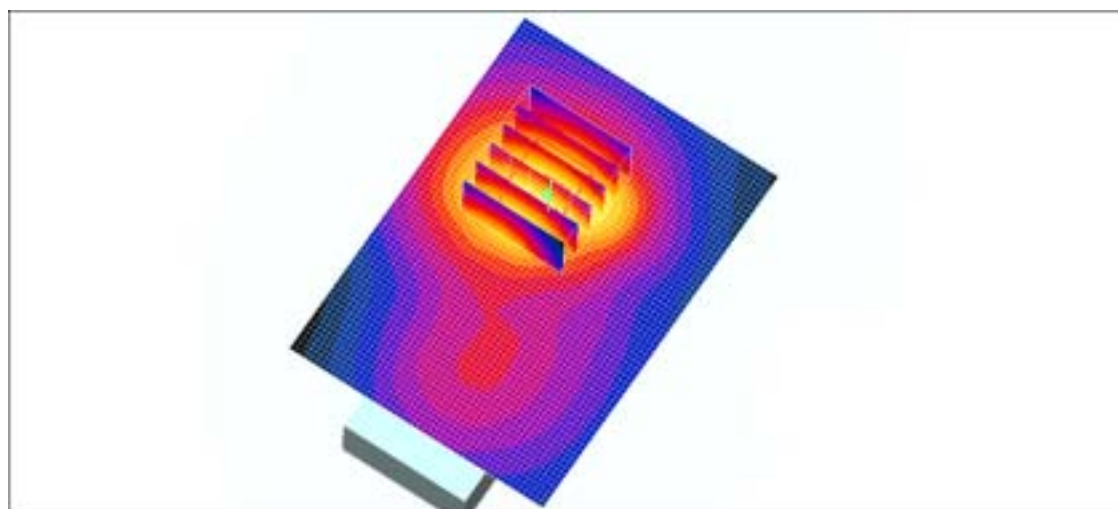
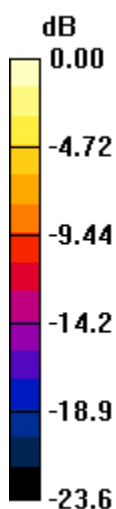
**Body, Ch.810, Ant.Intenna, Bat.Extended/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.0 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 2.19 W/kg

**SAR(1 g) = 1.29 mW/g**

Maximum value of SAR (measured) = 1.34 mW/g



0 dB = 1.34mW/g

**SAMSUNG FCC ID : A3LSGHD730 1900MHz GPRS1900 Body SAR**

**DUT: SGH-D730(Body); Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Body (Job No. : FC-084)**

**Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Extended with BT on**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1;Test Date-07/Jul/2005[OET Bulletin 65-Supplement C, July 2001]**

Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Body, Ch.810, Ant.Intenna, Bat.Extended with BT on/Area Scan (51x71x1):**

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.32 mW/g

**Body, Ch.810, Ant.Intenna, Bat.Extended with BT on/Zoom Scan (6x6x7)/Cube 0:**

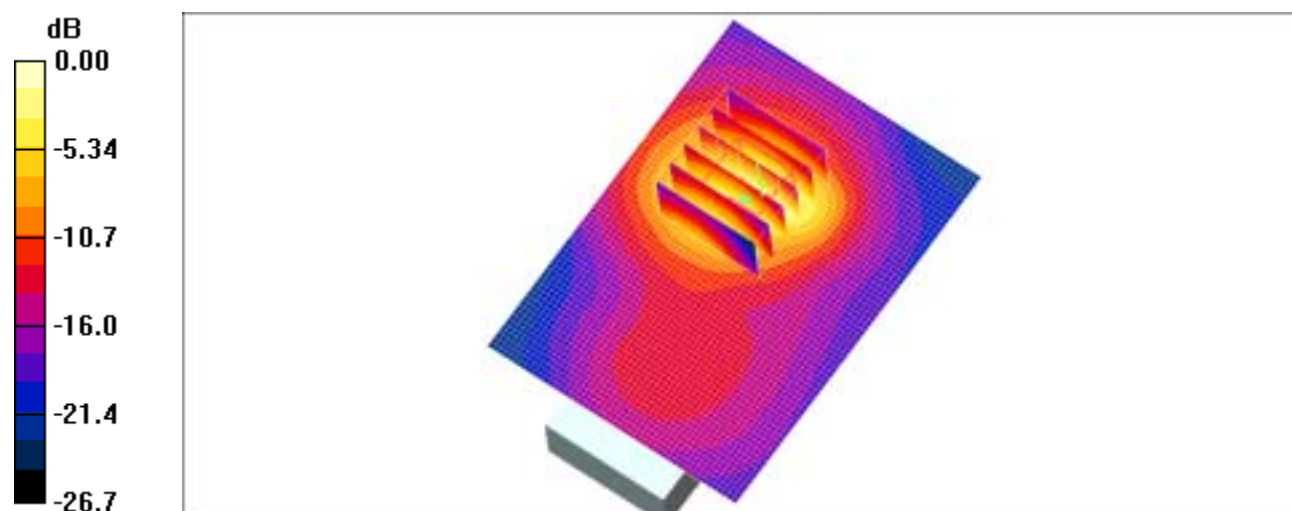
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.6 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 2.18 W/kg

**SAR(1 g) = 1.25 mW/g**

Maximum value of SAR (measured) = 1.34 mW/g



0 dB = 1.34mW/g

**SAMSUNG FCC ID : A3LSGHD730 1900MHz GSM1900 Head SAR**

**DUT: SGH-D730; Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Right (Job No. : FC-084)**

**Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1; Test Date-07/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.852 mW/g

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0:**

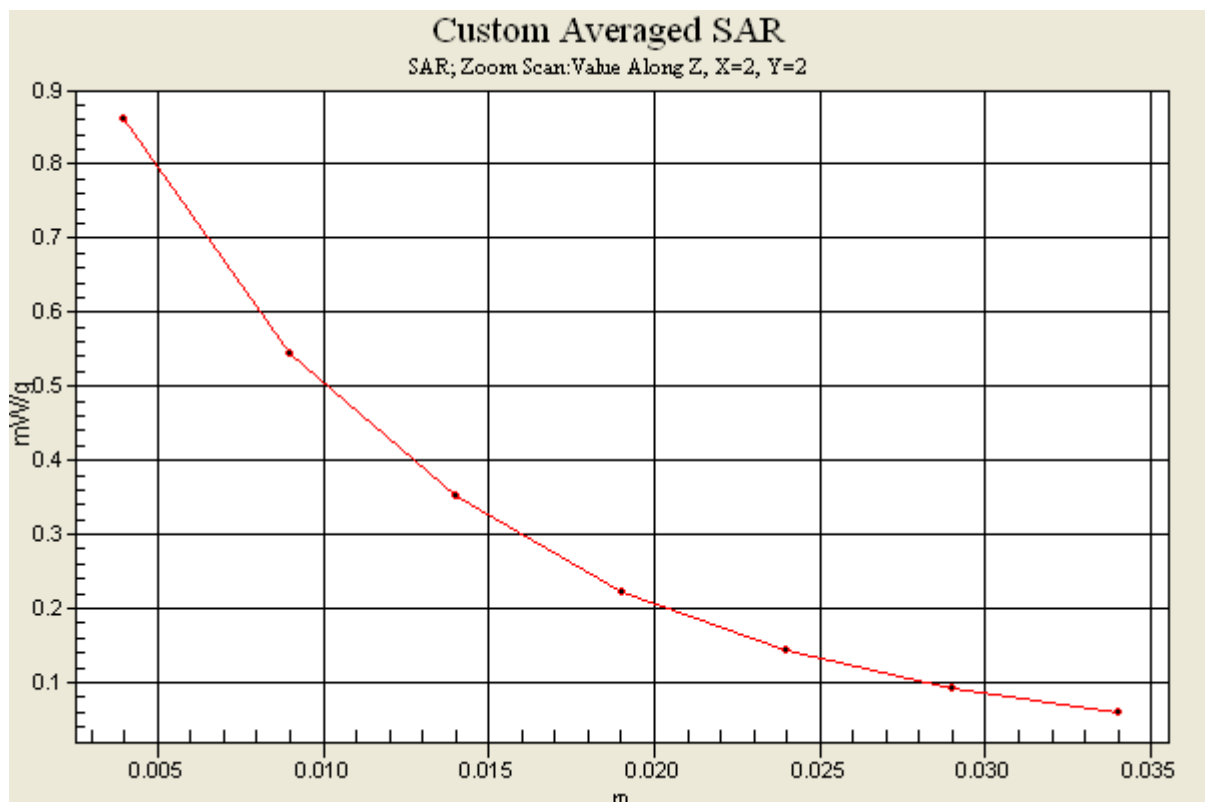
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.43 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.777 mW/g**

Maximum value of SAR (measured) = 0.855 mW/g



**SAMSUNG FCC ID : A3LSGHD730 1900MHz GSM1900 Head SAR**

**DUT: SGH-D730; Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Right (Job No. : FC-084)**

**Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended with BT on**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1; Test Date-07/Jul/2005 [OET Bulletin 65-Supplement C, July 2001]**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.29, 8.29, 8.29); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended with BT on/Area Scan (51x71x1):**

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.807 mW/g

**Cheek/Touch, Ch.661, Ant.Intenna, Bat.Extended with BT on/Zoom Scan**

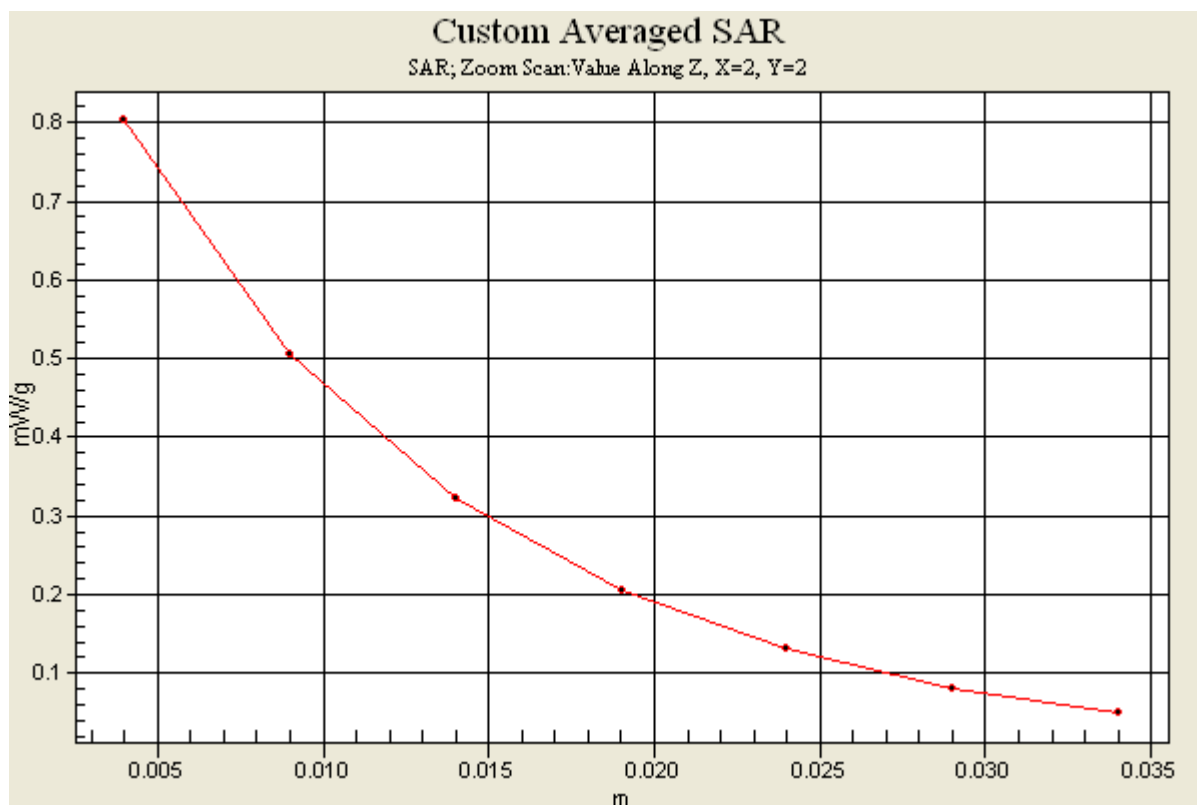
**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.65 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.731 mW/g**

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



**SAMSUNG FCC ID : A3LSGHD730 1900MHz GPRS1900 Body SAR**

**DUT: SGH-D730(Body); Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Body (Job No. : FC-084)**

**Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Extended**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1;Test Date-07/Jul/2005[OET Bulletin 65-Supplement C, July 2001]**

Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Body, Ch.810, Ant.Intenna, Bat.Extended/Area Scan (51x71x1):** Measurement grid:  
dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.40 mW/g

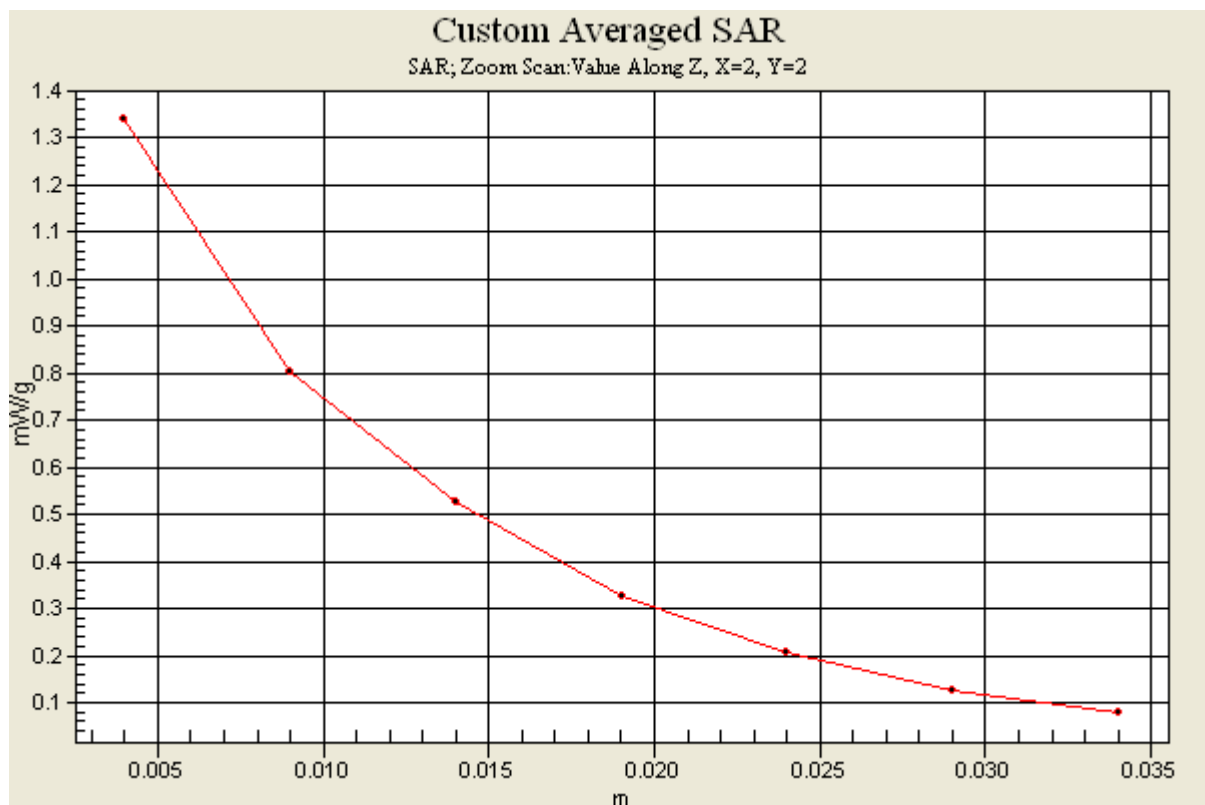
**Body, Ch.810, Ant.Intenna, Bat.Extended/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.0 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 2.19 W/kg

**SAR(1 g) = 1.29 mW/g**

Maximum value of SAR (measured) = 1.34 mW/g



**SAMSUNG FCC ID : A3LSGHD730 1900MHz GPRS1900 Body SAR**

**DUT: SGH-D730(Body); Serial: FC-084-I**

**Program Name: SGH-D730 GSM1900 Body (Job No. : FC-084)**

**Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Extended with BT on**

**Procedure Notes: Meas.Tissue Temp(celsius)-22.1; Test Date-07/Jul/2005[OET Bulletin 65-Supplement C, July 2001]**

Communication System: Body GPRS ; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.76, 7.76, 7.76); Calibrated: 2004-12-15

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

- Electronics: DAE3 Sn468; Calibrated: 2004-12-07

- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Body, Ch.810, Ant.Intenna, Bat.Extended with BT on/Area Scan (51x71x1):**

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.32 mW/g

**Body, Ch.810, Ant.Intenna, Bat.Extended with BT on/Zoom Scan (6x6x7)/Cube 0:**

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.6 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 2.18 W/kg

**SAR(1 g) = 1.25 mW/g**

Maximum value of SAR (measured) = 1.34 mW/g

