



### Appendix B. SAR Measurement Plots

SAR Test Summary
GSM 850 MHz head
GSM 850 MHz body
GSM 1900 MHz head
GSM 1900 MHz body
WCDMA 850 MHz head
WCDMA 850 MHz body
WCDMA 1900 MHz head
WCDMA 1900 MHz body

Test Laboratory: HUAWEI GCTC Lab

## **U2800-5 GSM850 190CH Left hand touch cheek**

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.909$  mho/m;  $\epsilon_r = 42.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.33, 8.56, 8.97); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.07 mW/g

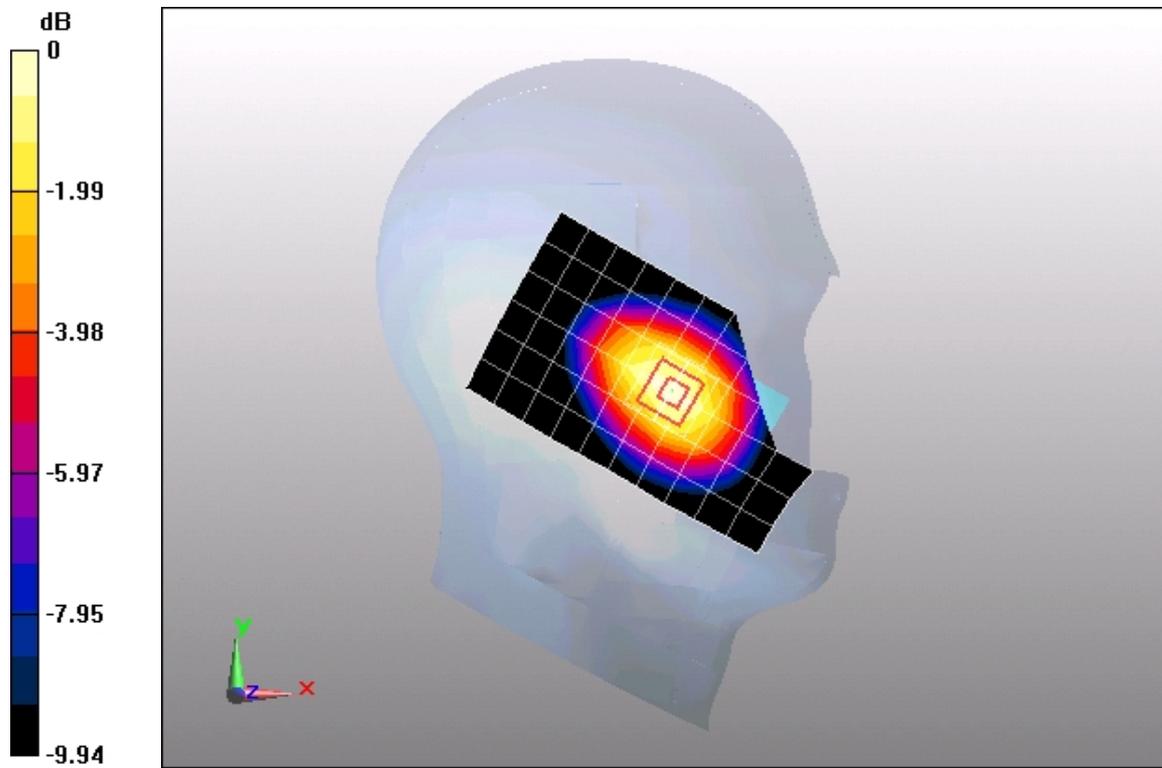
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11 V/m; Power Drift = 0.091 dB

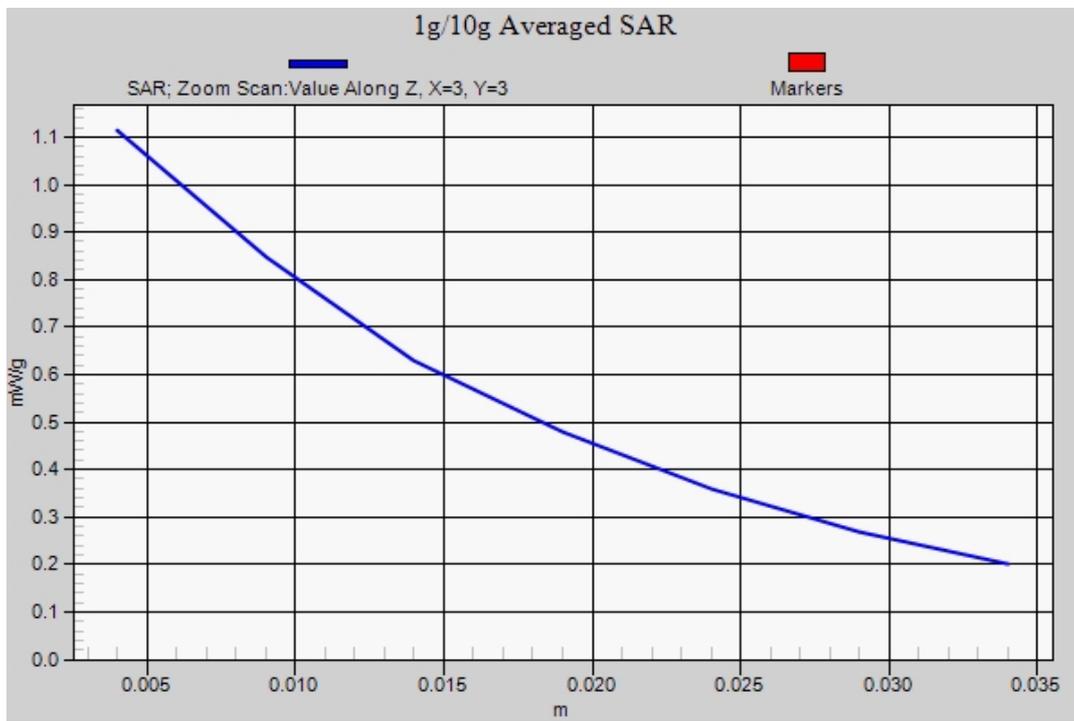
Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.726 mW/g**

Maximum value of SAR (measured) = 1.11 mW/g



0 dB = 1.11mW/g



Test Laboratory: HUAWEI GCTC Lab

## **U2800-5 GSM850 190CH Left hand tilt 15 degree**

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.909$  mho/m;  $\epsilon_r = 42.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.33, 8.56, 8.97); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

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

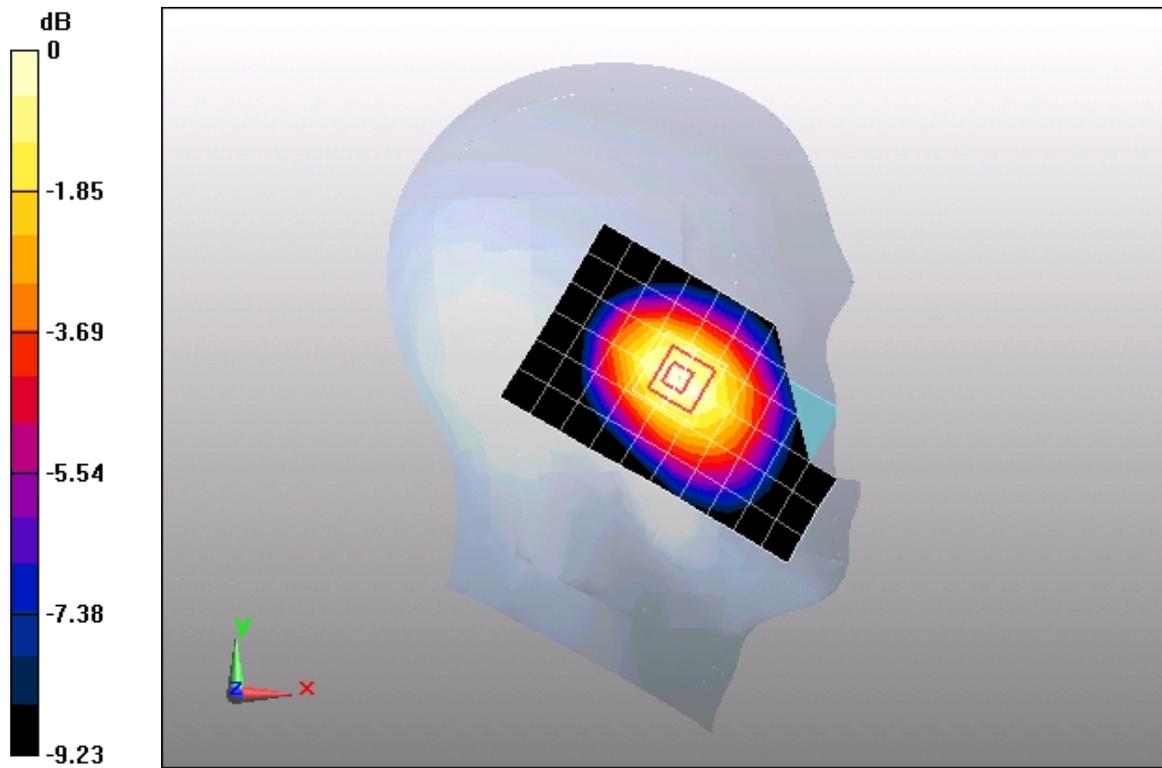
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.6 V/m; Power Drift = -0.063 dB

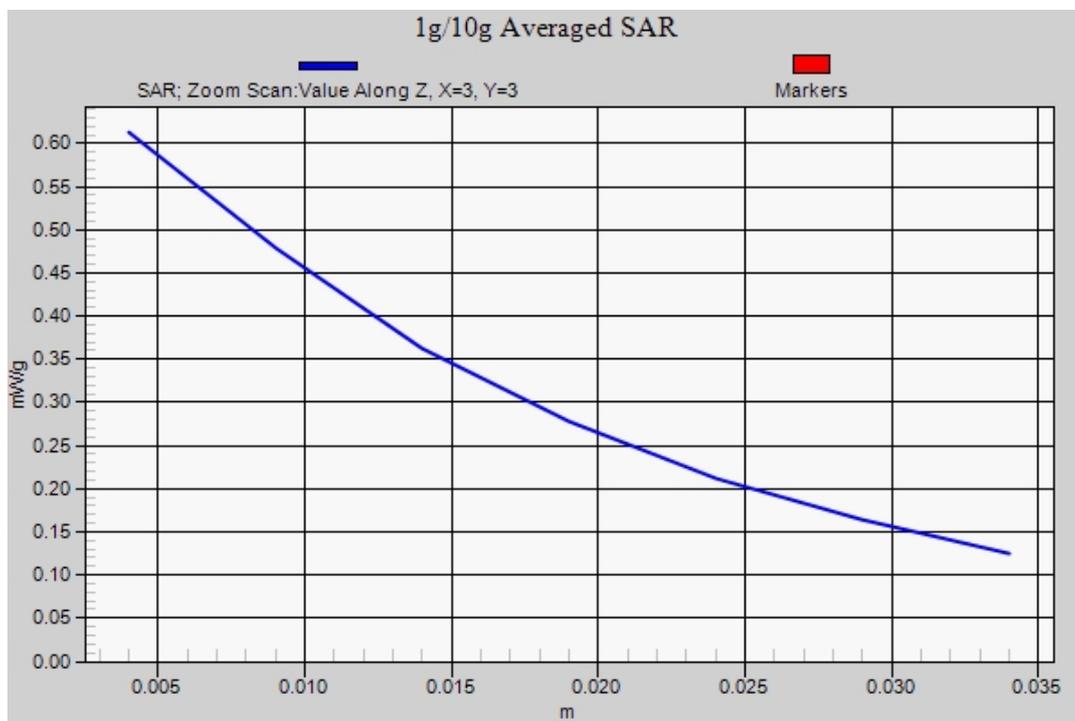
Peak SAR (extrapolated) = 0.742 W/kg

**SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.418 mW/g**

Maximum value of SAR (measured) = 0.613 mW/g



0 dB = 0.613mW/g



Test Laboratory: HUAWEI GCTC Lab

## **U2800-5 GSM850 190CH Right hand touch cheek**

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.909$  mho/m;  $\epsilon_r = 42.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.33, 8.56, 8.97); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.02 mW/g

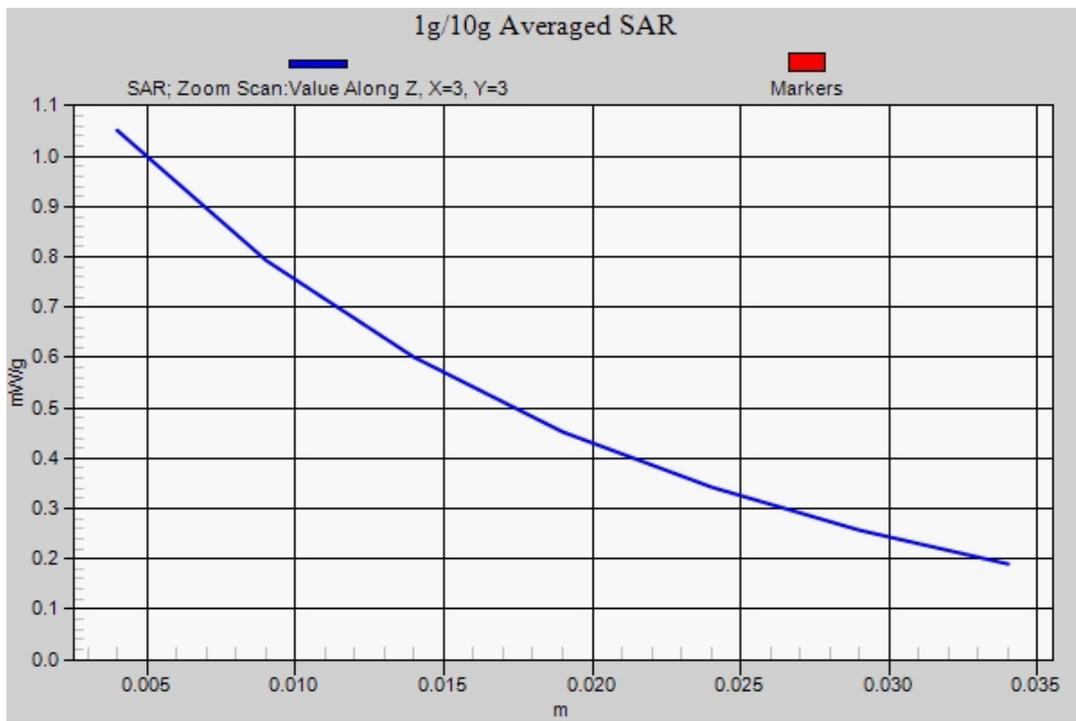
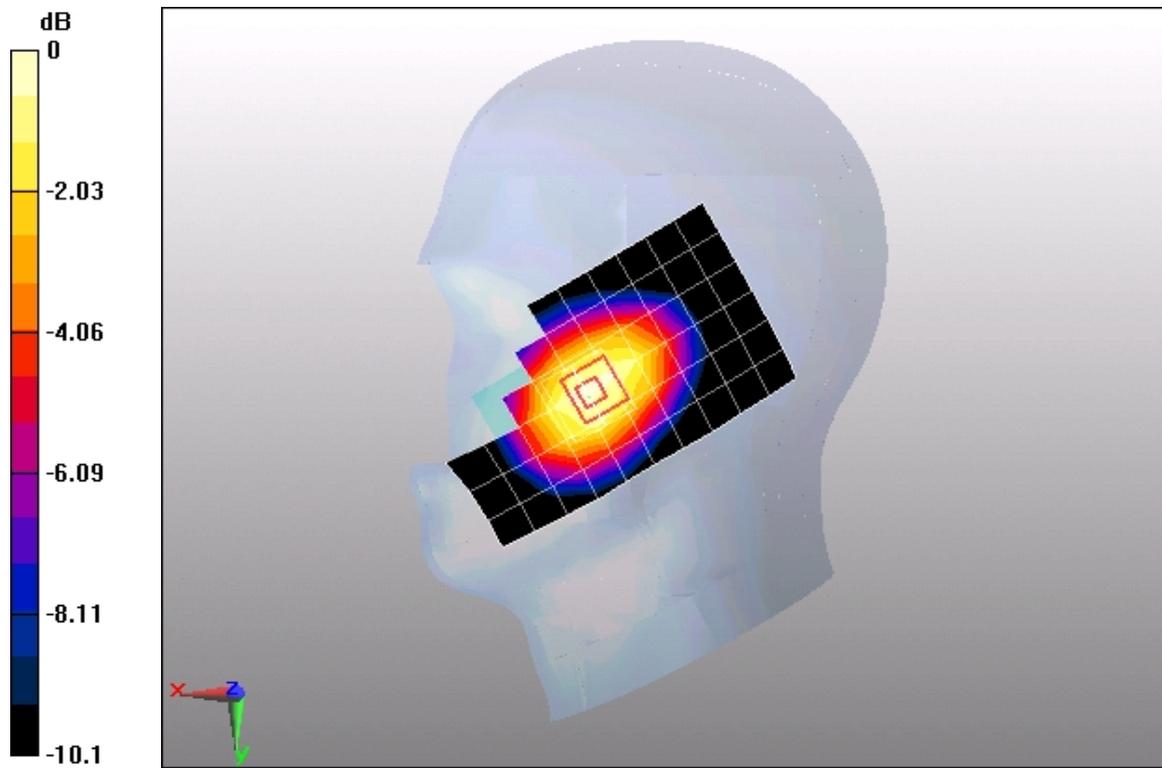
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.978 mW/g; SAR(10 g) = 0.697 mW/g**

Maximum value of SAR (measured) = 1.05 mW/g



Test Laboratory: HUAWEI GCTC Lab

## **U2800-5 GSM850 190CH Right hand tilt 15 degree**

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.909$  mho/m;  $\epsilon_r = 42.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.33, 8.56, 8.97); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.625 mW/g

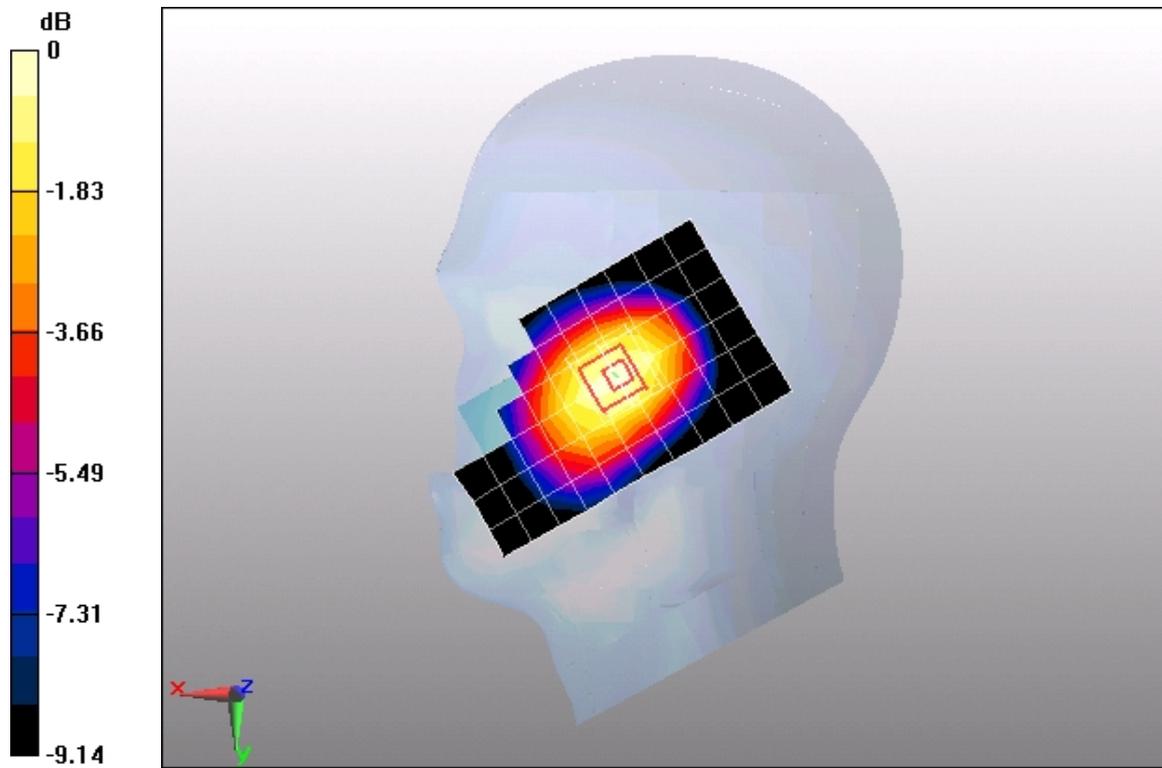
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = -0.144 dB

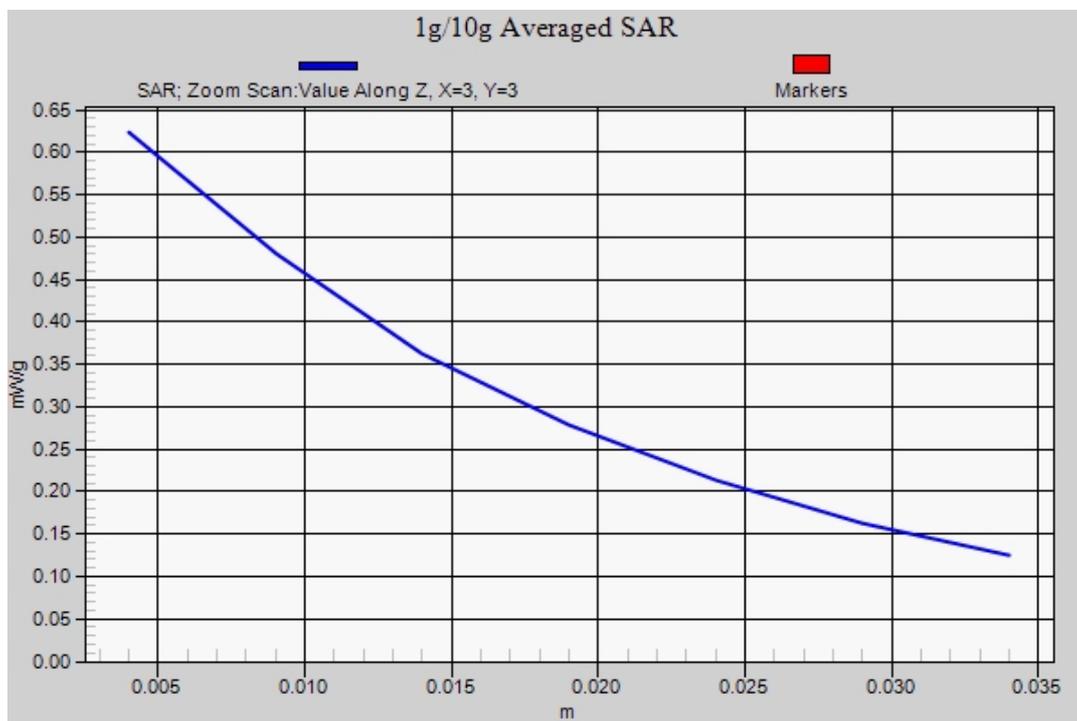
Peak SAR (extrapolated) = 0.748 W/kg

**SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.424 mW/g**

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



0 dB = 0.623mW/g



Test Laboratory: HUAWEI GCTC Lab

## **U2800-5 GSM850 251CH Left hand touch cheek**

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 848.8 MHz

Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 42.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.33, 8.56, 8.97); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.08 mW/g

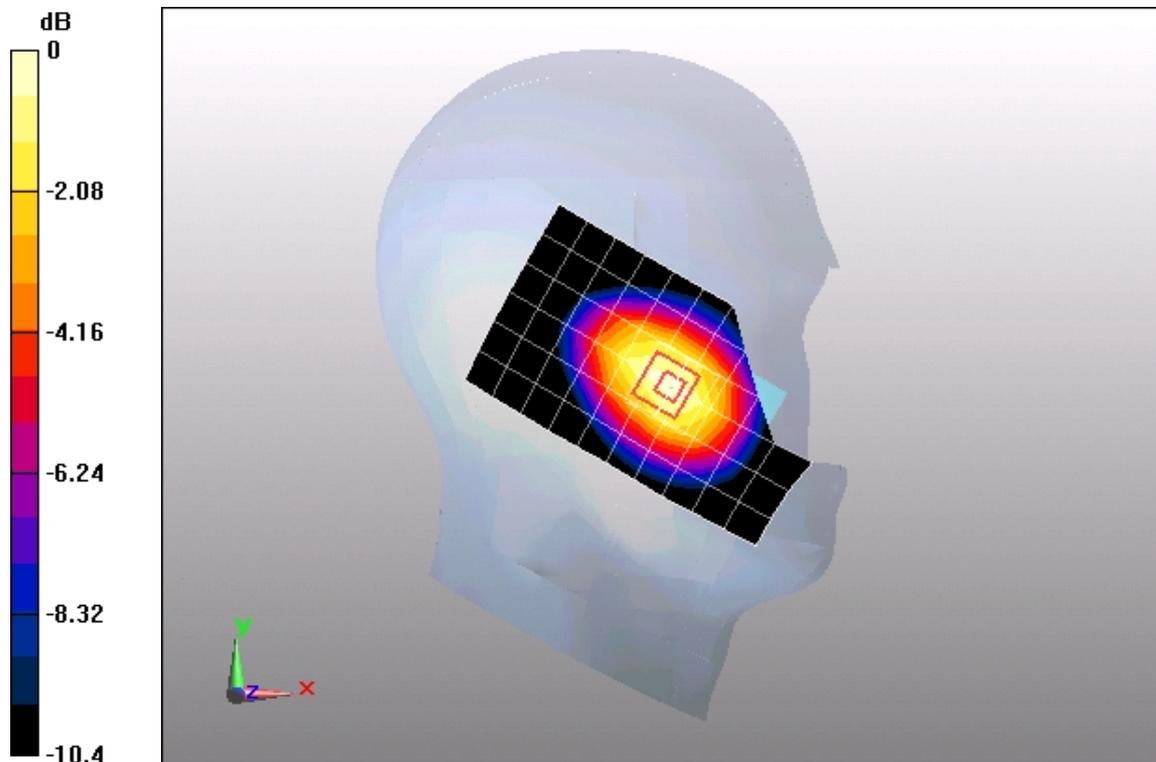
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = 0.045 dB

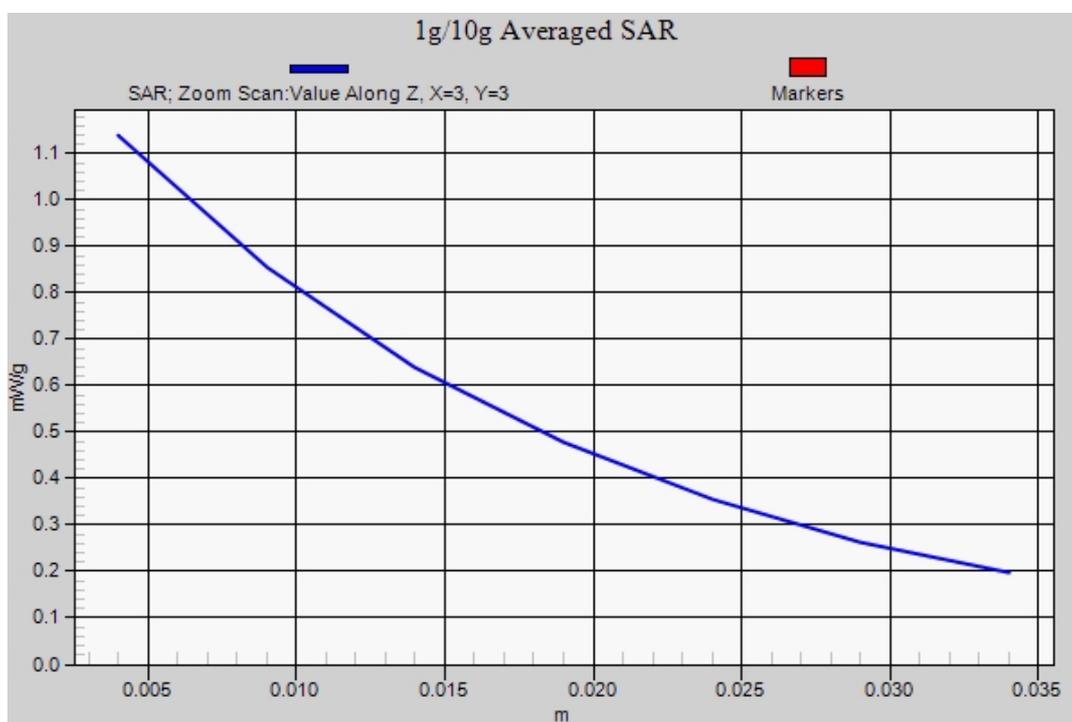
Peak SAR (extrapolated) = 1.38 W/kg

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.737 mW/g**

Maximum value of SAR (measured) = 1.14 mW/g



0 dB = 1.14mW/g



Test Laboratory: HUAWEI GCTC Lab

## U2800-5 GSM850 128CH Left hand touch cheek

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 824.2 MHz

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.897$  mho/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.33, 8.56, 8.97); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.879 mW/g

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

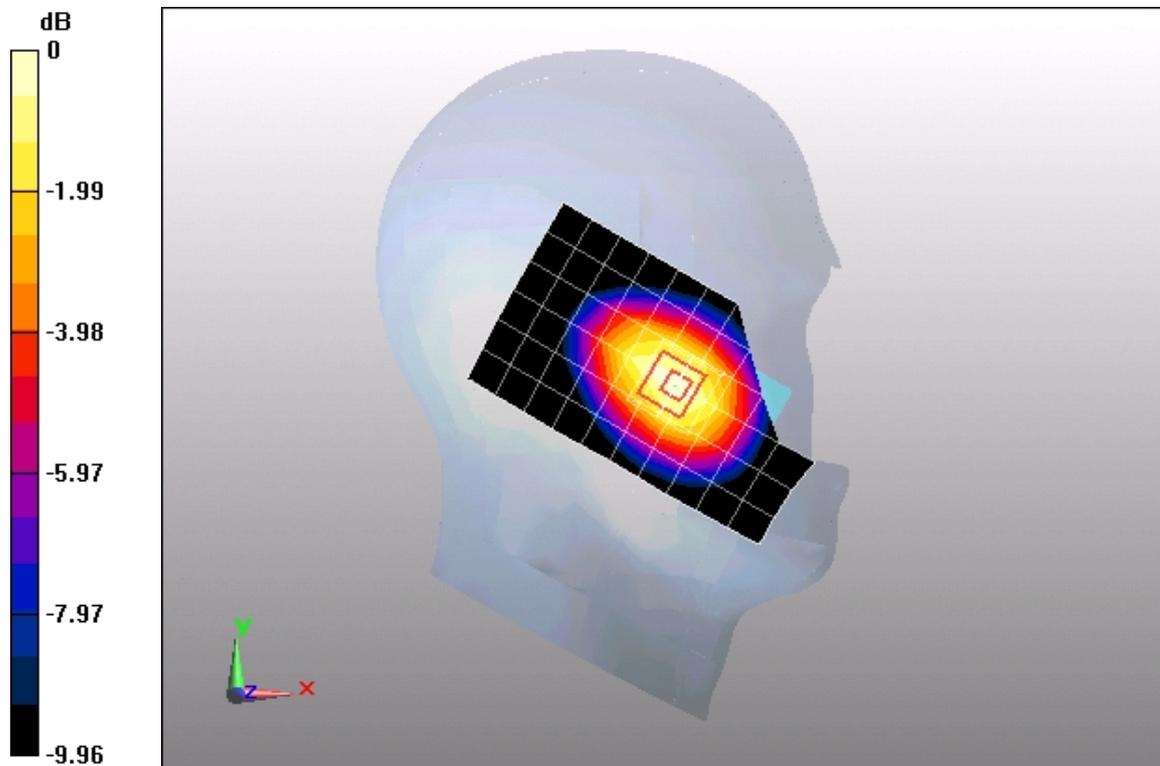
Reference Value = 10.4 V/m; Power Drift = -0.00827 dB

Peak SAR (extrapolated) = 1.1 W/kg

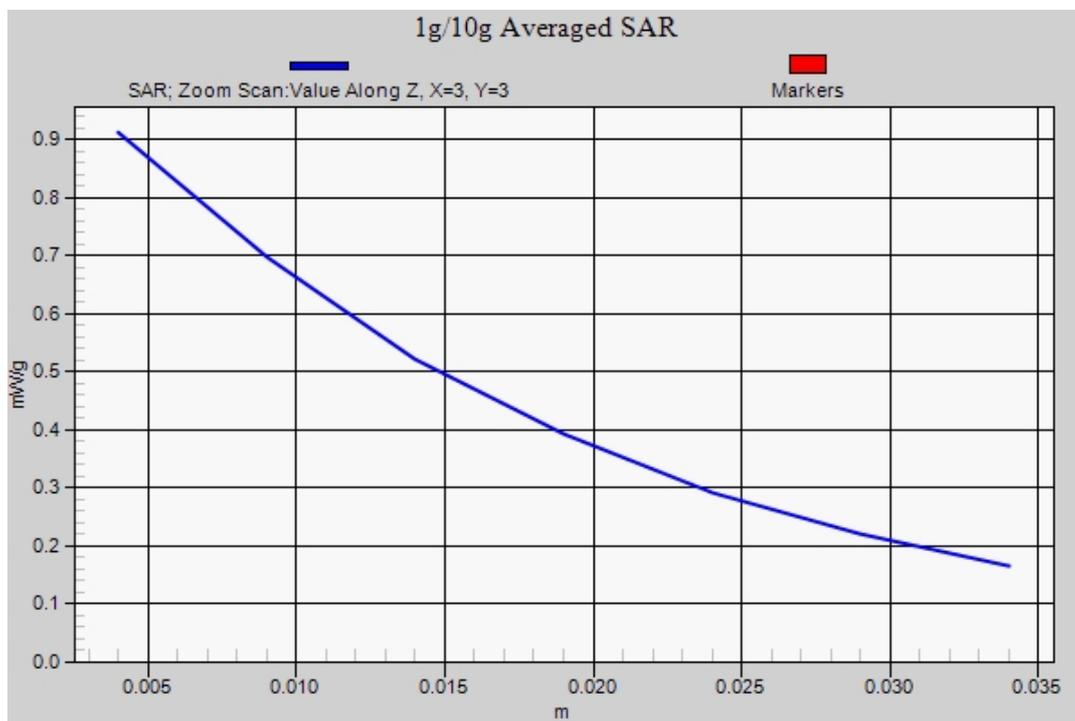
**SAR(1 g) = 0.844 mW/g; SAR(10 g) = 0.598 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.912 mW/g



0 dB = 0.912mW/g



Test Laboratory: HUAWEI GCTC Lab

## **U2800-5 GSM850 251CH Right hand touch cheek**

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 848.8 MHz

Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 42.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.33, 8.56, 8.97); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.840 mW/g

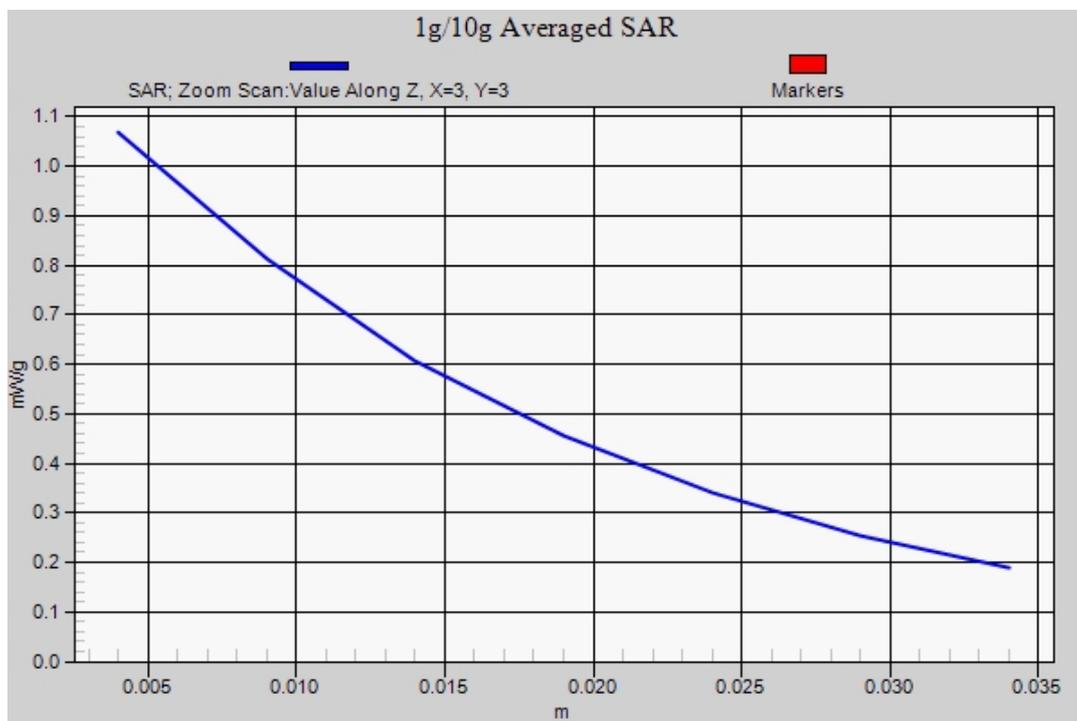
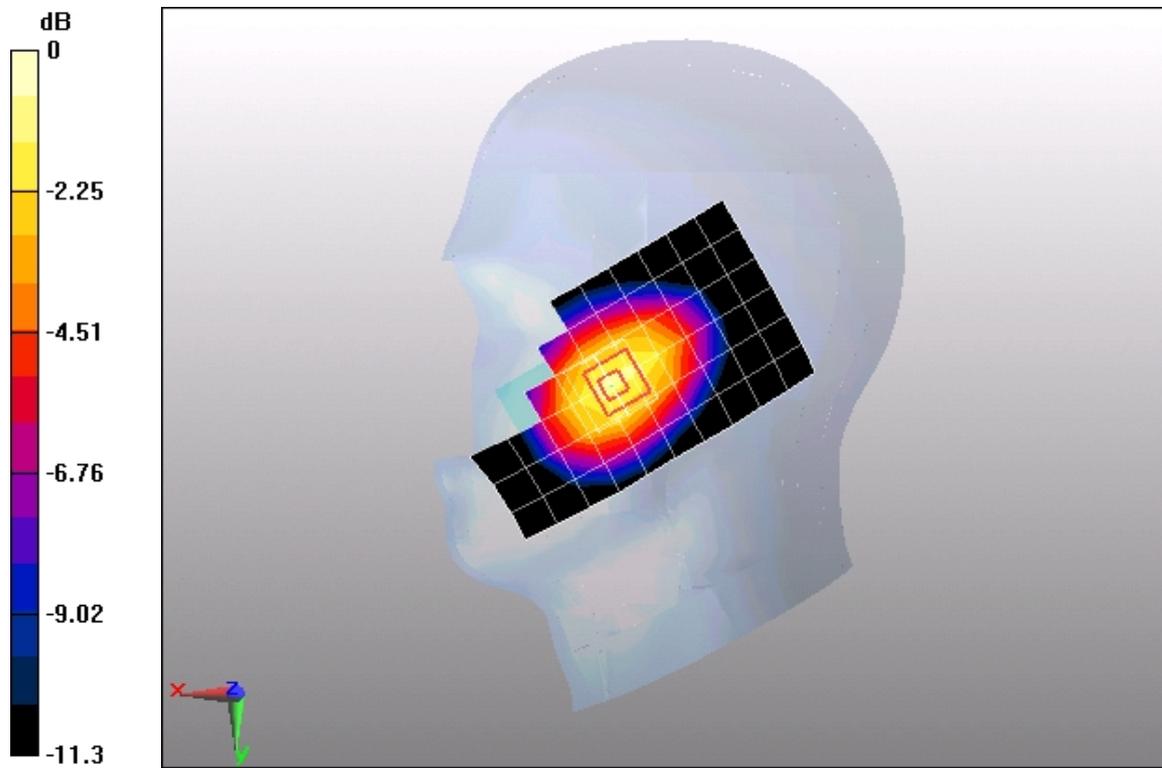
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 0.991 mW/g; SAR(10 g) = 0.702 mW/g**

Maximum value of SAR (measured) = 1.07 mW/g



Test Laboratory: HUAWEI GCTC Lab

## **U2800-5 GSM850 128CH Right hand touch cheek**

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 824.2 MHz

Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.897$  mho/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.33, 8.56, 8.97); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM4; Type: SAM; Serial: TP-1620
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.822 mW/g

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

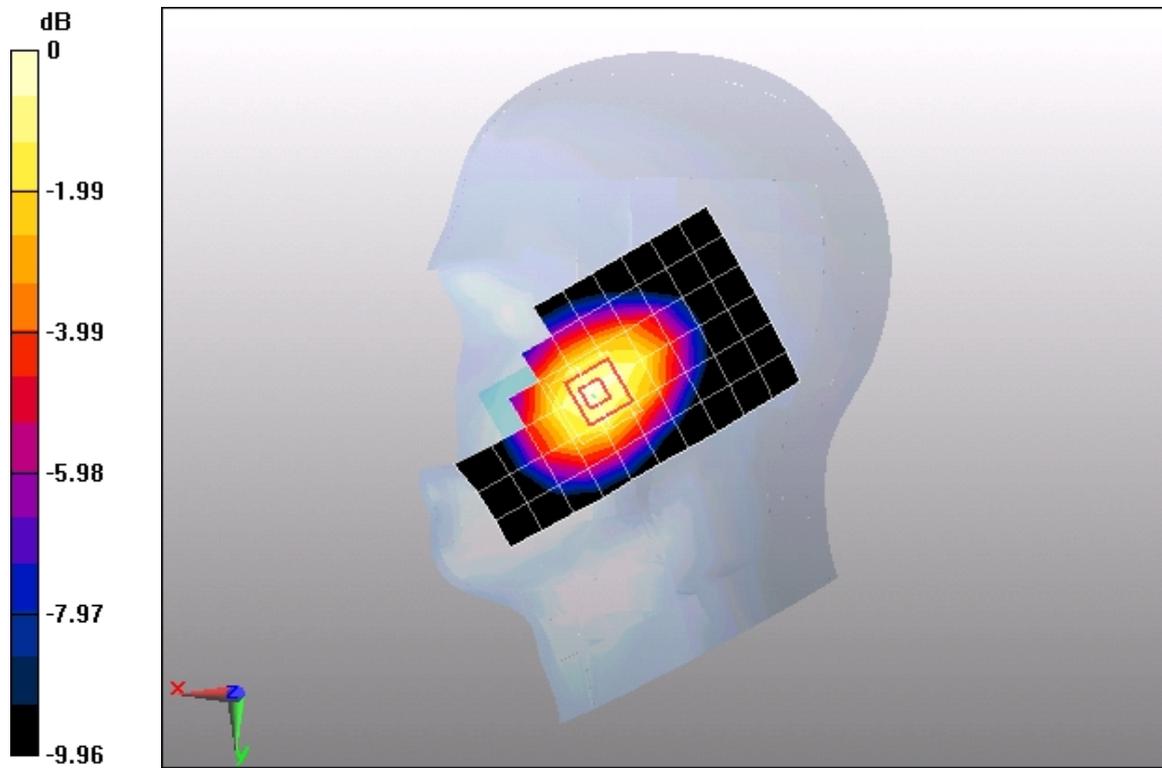
Reference Value = 10.2 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 1.03 W/kg

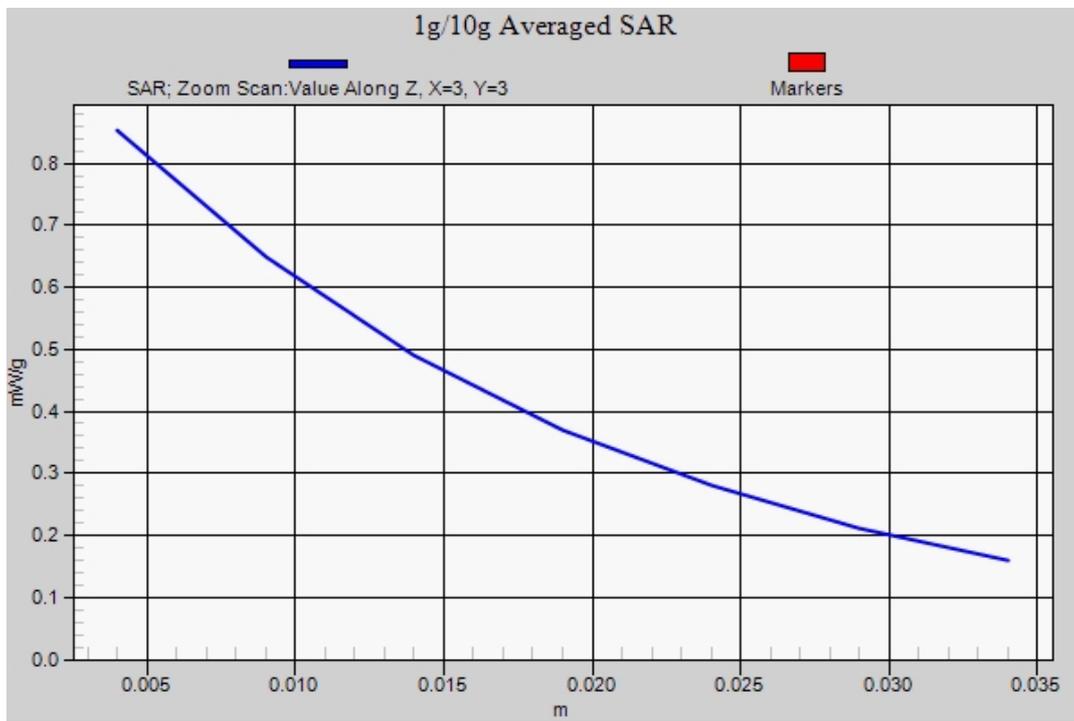
**SAR(1 g) = 0.790 mW/g; SAR(10 g) = 0.563 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.853 mW/g



0 dB = 0.853mW/g



Test Laboratory: HUAWEI GCTC Lab

## **U2800-5 GSM850 GPRS 1TS 190CH Towards Phantom 15mm**

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 1TS; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.962$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.79, 8.99, 9.47); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.601 mW/g

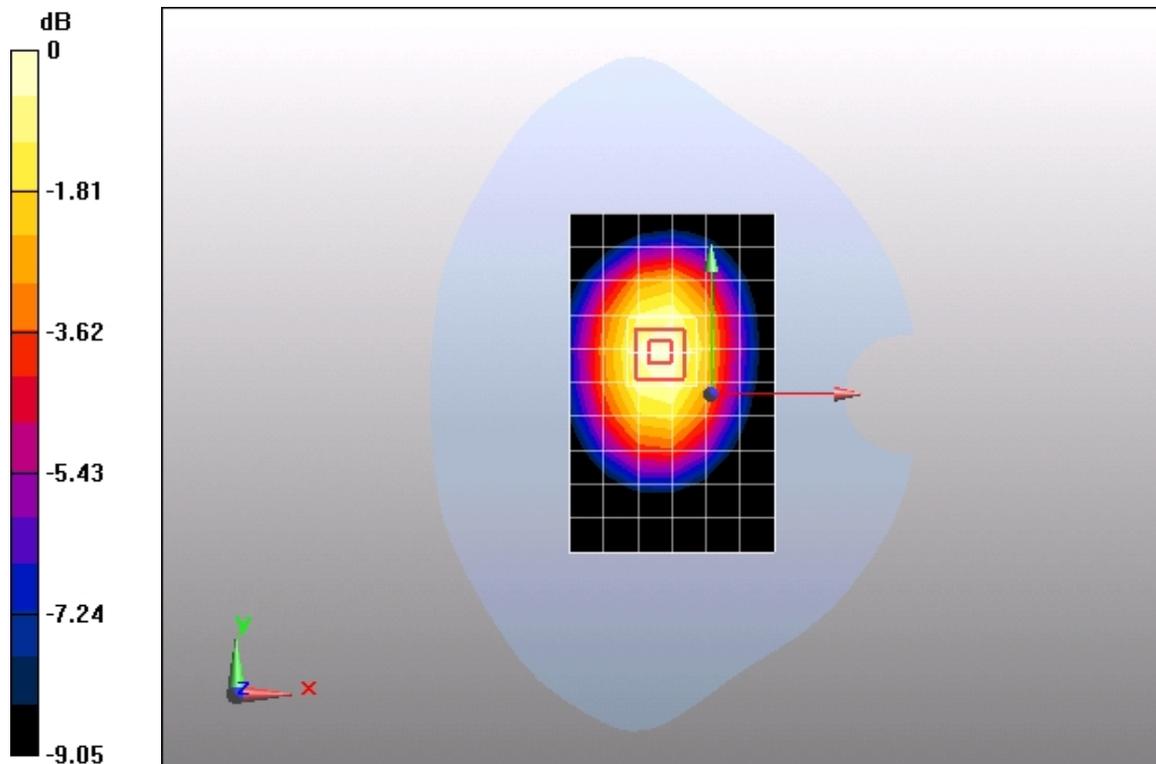
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.6 V/m; Power Drift = 0.078 dB

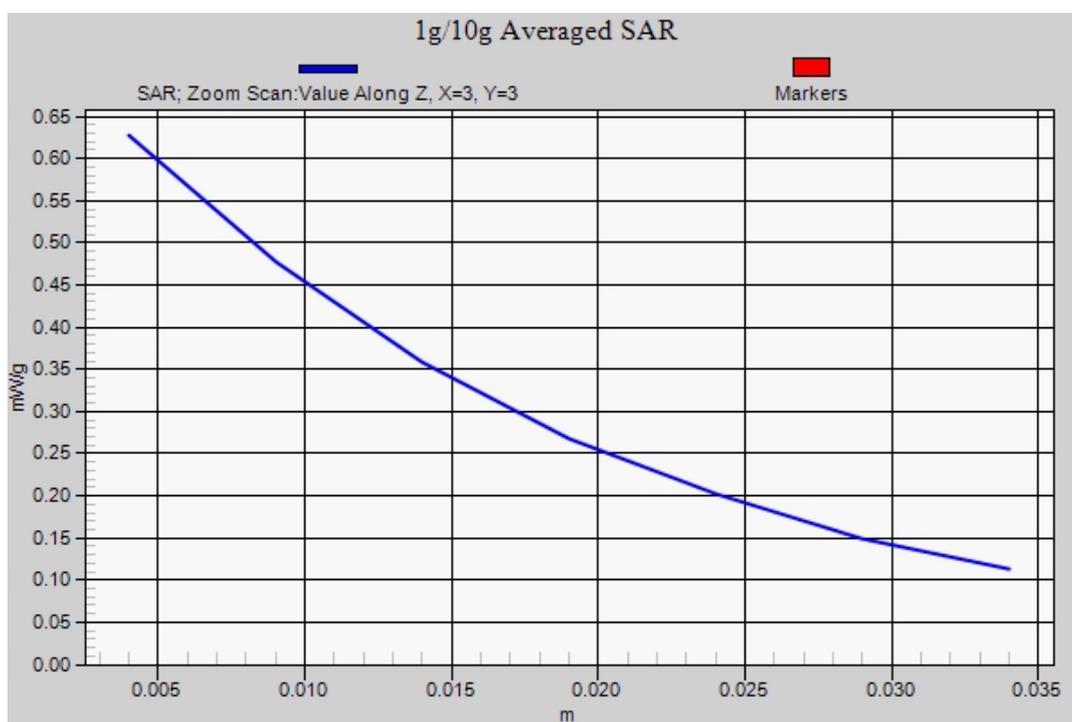
Peak SAR (extrapolated) = 0.766 W/kg

**SAR(1 g) = 0.590 mW/g; SAR(10 g) = 0.428 mW/g**

Maximum value of SAR (measured) = 0.627 mW/g



0 dB = 0.627mW/g



Test Laboratory: HUAWEI GCTC Lab

## **U2800-5 GSM850 GPRS 2TS 190CH Towards Phantom 15mm**

**DUT: U2800-5; Type: Handset; Serial: 2TA9MA1153100068**

Communication System: HW -GSM/GPRS/EDGE 2TS; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.962$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3736; ConvF(8.79, 8.99, 9.47); Calibrated: 11/16/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1236; Calibrated: 10/26/2010
- Phantom: SAM3; Type: SAM; Serial: TP-1597
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

**Configuration/Head/Area Scan (7x11x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.678 mW/g

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

Reference Value = 25.4 V/m; Power Drift = -0.049 dB

Peak SAR (extrapolated) = 0.831 W/kg

**SAR(1 g) = 0.659 mW/g; SAR(10 g) = 0.480 mW/g**

Maximum value of SAR (measured) = 0.697 mW/g