

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_right\_ch661\_cheek

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

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

Medium: Head 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.4 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (91x161x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Reference Value = 14.6 V/m; Power Drift = -0.009 dB

Maximum value of SAR (interpolated) = 0.545 mW/g

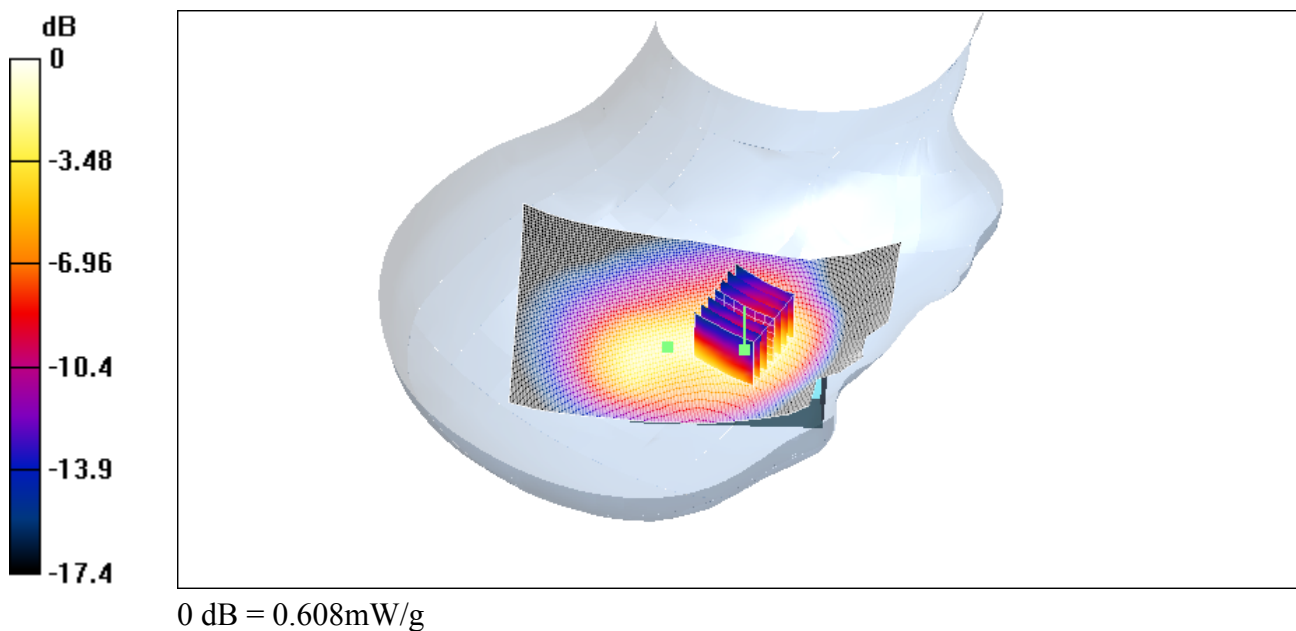
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.6 V/m; Power Drift = -0.009 dB

Maximum value of SAR (measured) = 0.608 mW/g

Peak SAR (extrapolated) = 0.845 W/kg

**SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.292 mW/g**



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_right\_ch661\_tilted

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

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

Medium: Head 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.4 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (91x161x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Reference Value =  $15.3 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

Maximum value of SAR (interpolated) =  $0.385 \text{ mW/g}$

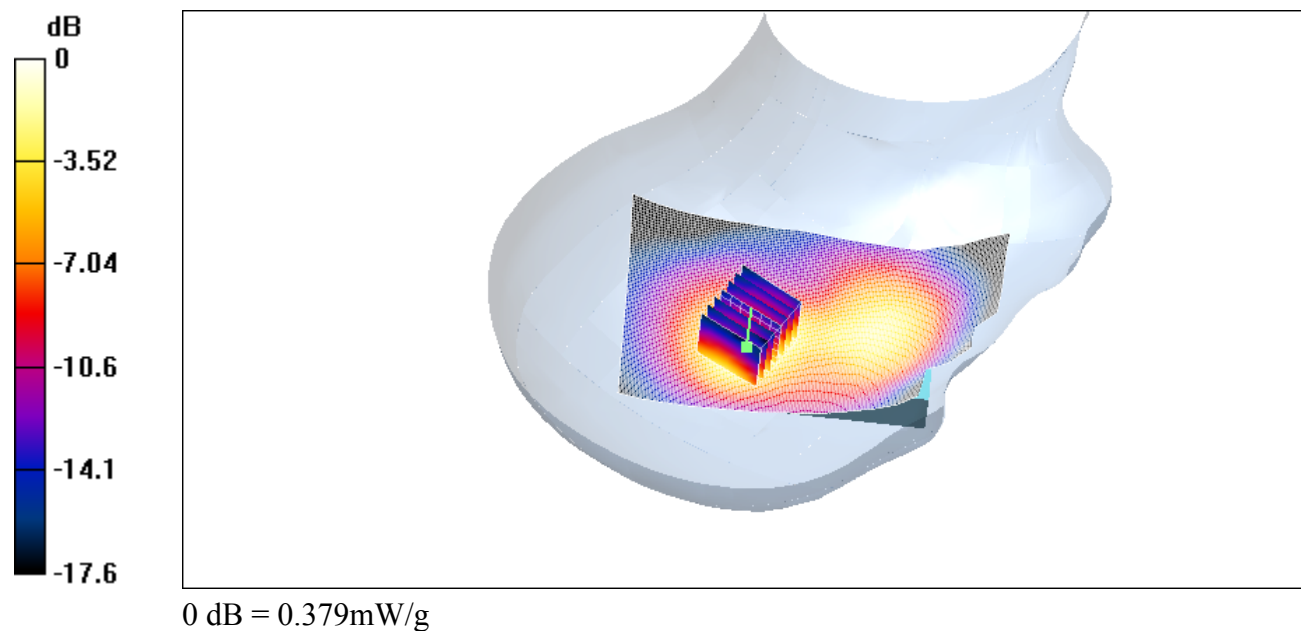
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $15.3 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

Maximum value of SAR (measured) =  $0.379 \text{ mW/g}$

Peak SAR (extrapolated) =  $0.577 \text{ W/kg}$

**SAR(1 g) =  $0.342 \text{ mW/g}$ ; SAR(10 g) =  $0.187 \text{ mW/g}$**



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_left\_ch512\_cheek

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

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

Medium: Head 1900 MHz Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (91x161x1):** Measurement grid: dx=10mm, dy=10mm

Reference Value = 16.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.751 mW/g

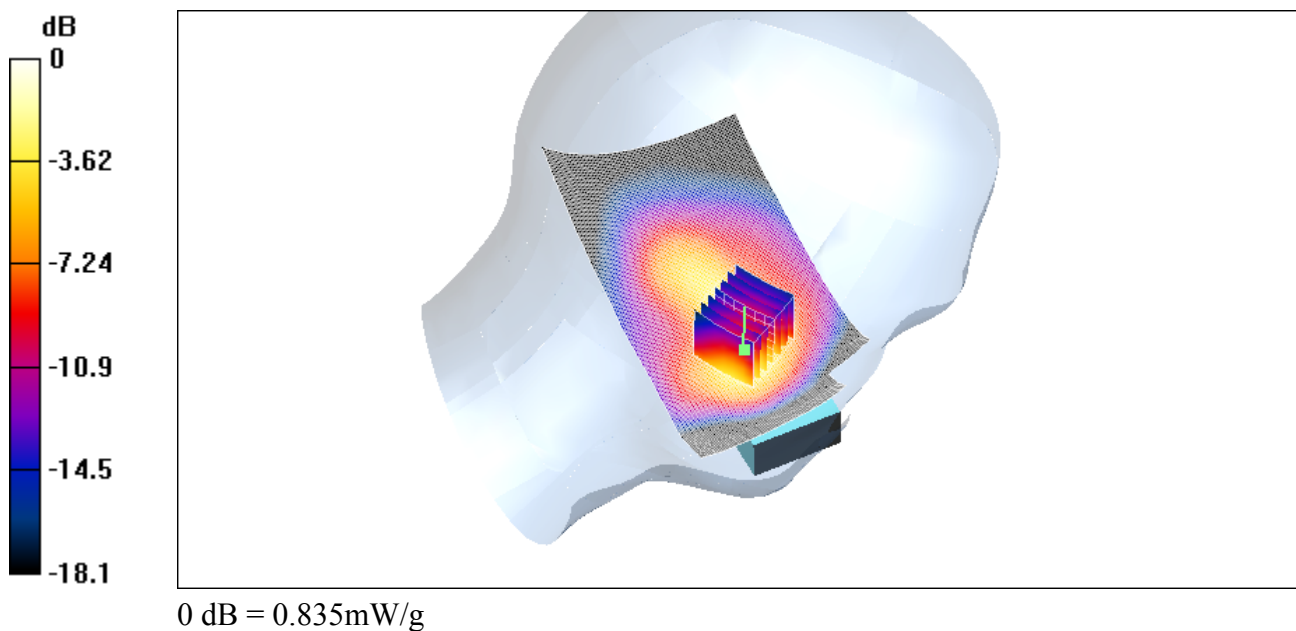
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.835 mW/g

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.373 mW/g**



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_left\_ch661\_cheek

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

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

Medium: Head 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.4 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (91x161x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Reference Value =  $14.8 \text{ V/m}$ ; Power Drift =  $-0.1 \text{ dB}$

Maximum value of SAR (interpolated) =  $0.619 \text{ mW/g}$

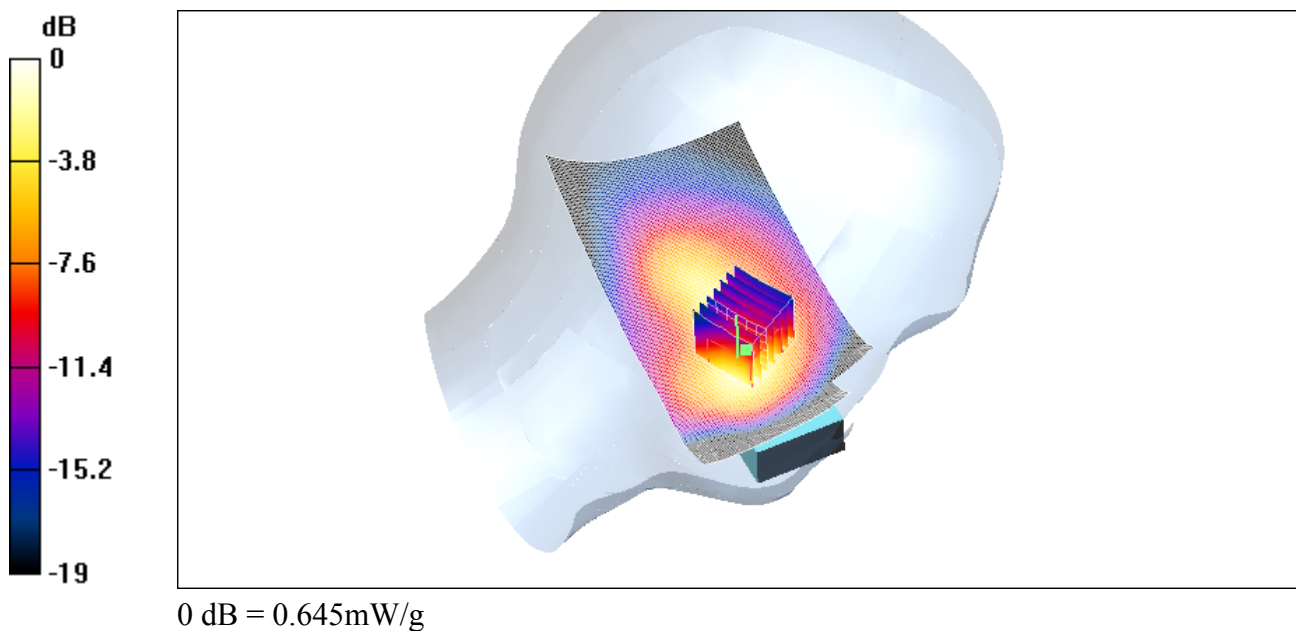
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $14.8 \text{ V/m}$ ; Power Drift =  $-0.1 \text{ dB}$

Maximum value of SAR (measured) =  $0.645 \text{ mW/g}$

Peak SAR (extrapolated) =  $0.908 \text{ W/kg}$

**SAR(1 g) =  $0.565 \text{ mW/g}$ ; SAR(10 g) =  $0.305 \text{ mW/g}$**



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_left\_ch661\_tilted

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

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

Medium: Head 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.4 \text{ mho/m}$ ;  $\epsilon_r = 39.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (91x161x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Reference Value = 15.1 V/m; Power Drift = 0.0 dB

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

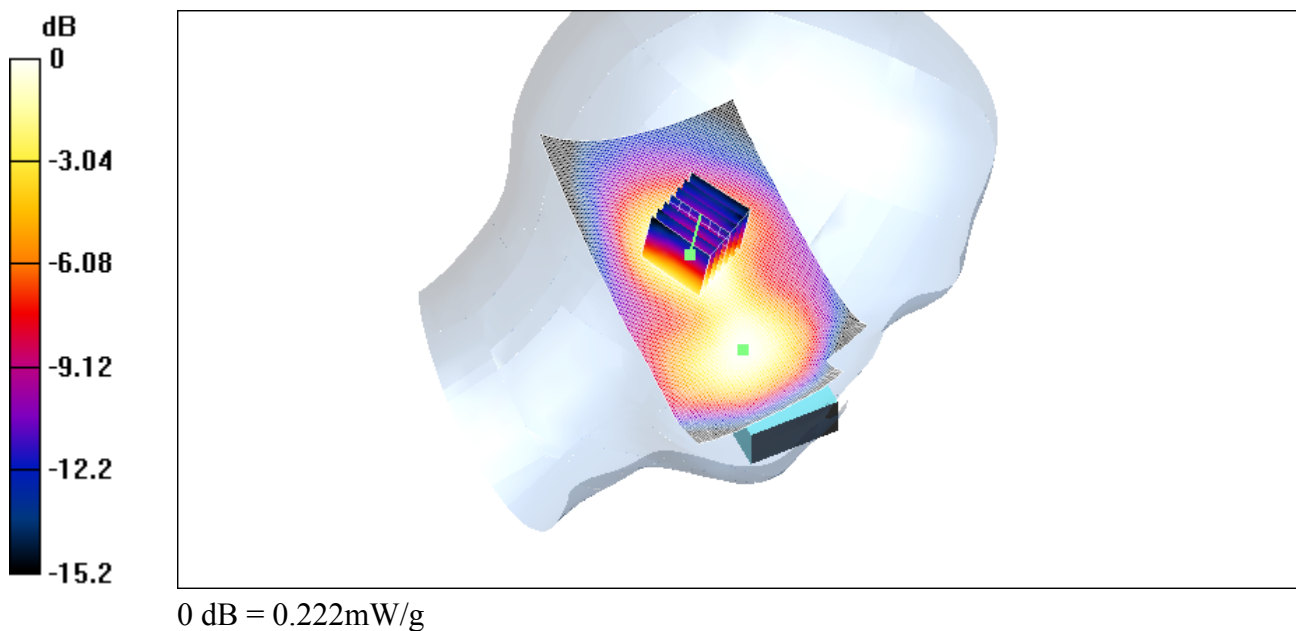
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 15.1 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 0.296 mW/g

Peak SAR (extrapolated) = 0.417 W/kg

**SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.148 mW/g**



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_left\_ch810\_cheek

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1900 MHz Medium parameters used (interpolated):  $f = 1909.8$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(5.2, 5.2, 5.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (91x161x1):** Measurement grid: dx=10mm, dy=10mm

Reference Value = 15.8 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 0.606 mW/g

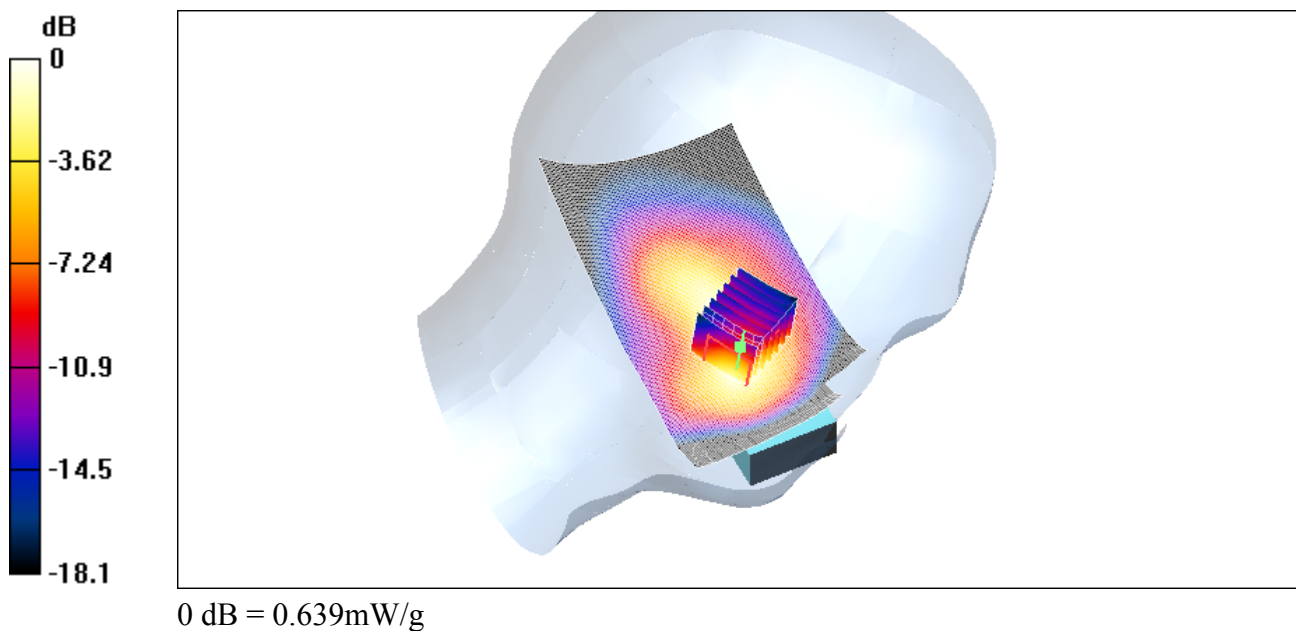
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.8 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.639 mW/g

Peak SAR (extrapolated) = 0.910 W/kg

**SAR(1 g) = 0.559 mW/g; SAR(10 g) = 0.304 mW/g**



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_flat\_ch512\_back

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

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

Medium: Muscle 1900 MHz Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (131x81x1):** Measurement grid: dx=10mm, dy=10mm

Reference Value = 8.87 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 0.170 mW/g

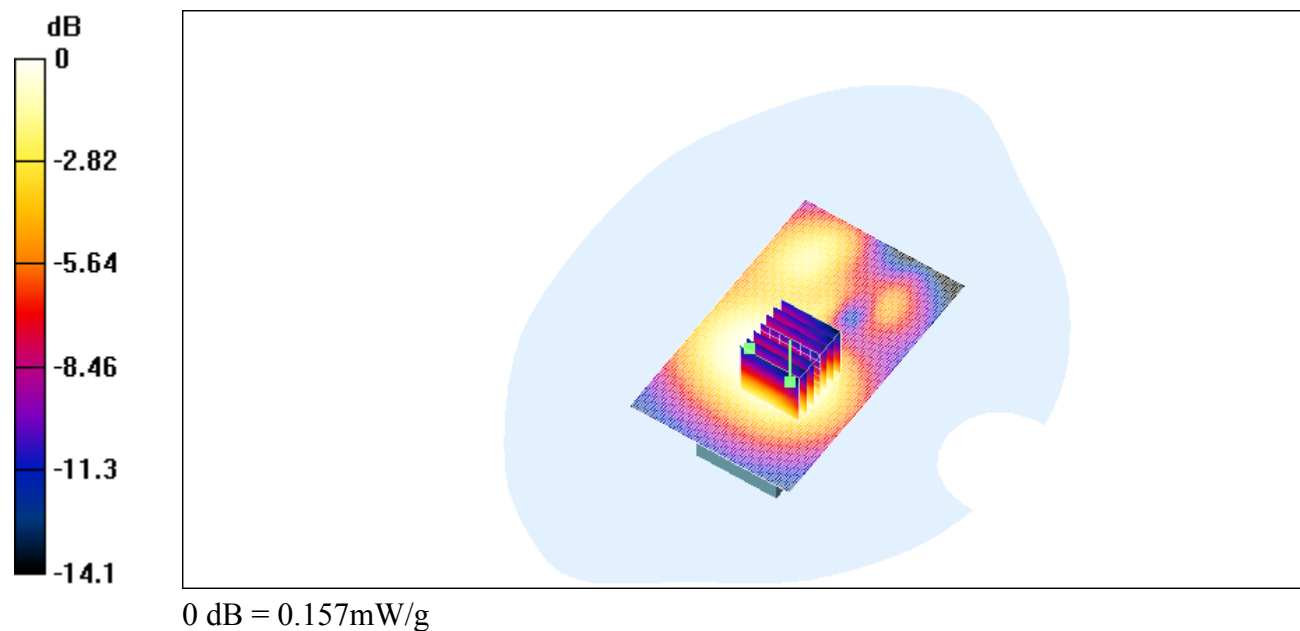
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.87 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 0.170 mW/g

Peak SAR (extrapolated) = 0.245 W/kg

**SAR(1 g) = 0.156 mW/g; SAR(10 g) = 0.099 mW/g**



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_flat\_ch661\_front

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

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

Medium: Muscle 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 51.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (131x81x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Reference Value = 7.71 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.135 mW/g

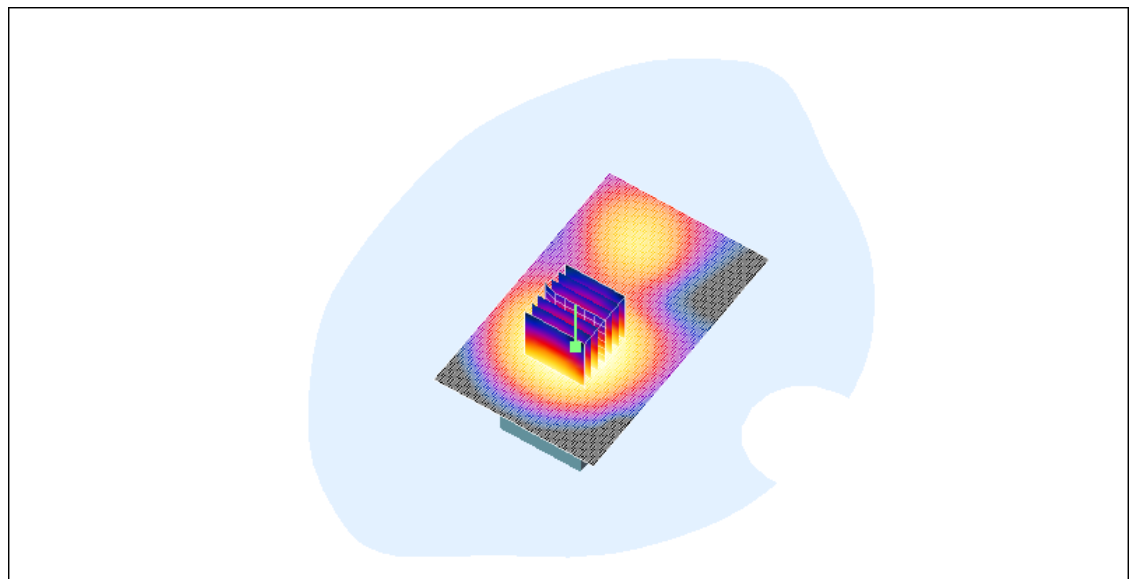
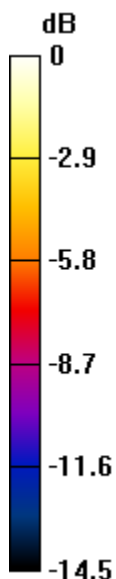
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.71 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.134 mW/g

Peak SAR (extrapolated) = 0.191 W/kg

**SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.077 mW/g**



0 dB = 0.134mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_flat\_ch661\_back

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

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

Medium: Muscle 1900 MHz Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 51.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (131x81x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Reference Value = 7.52 V/m; Power Drift = -0.005 dB

Maximum value of SAR (interpolated) = 0.146 mW/g

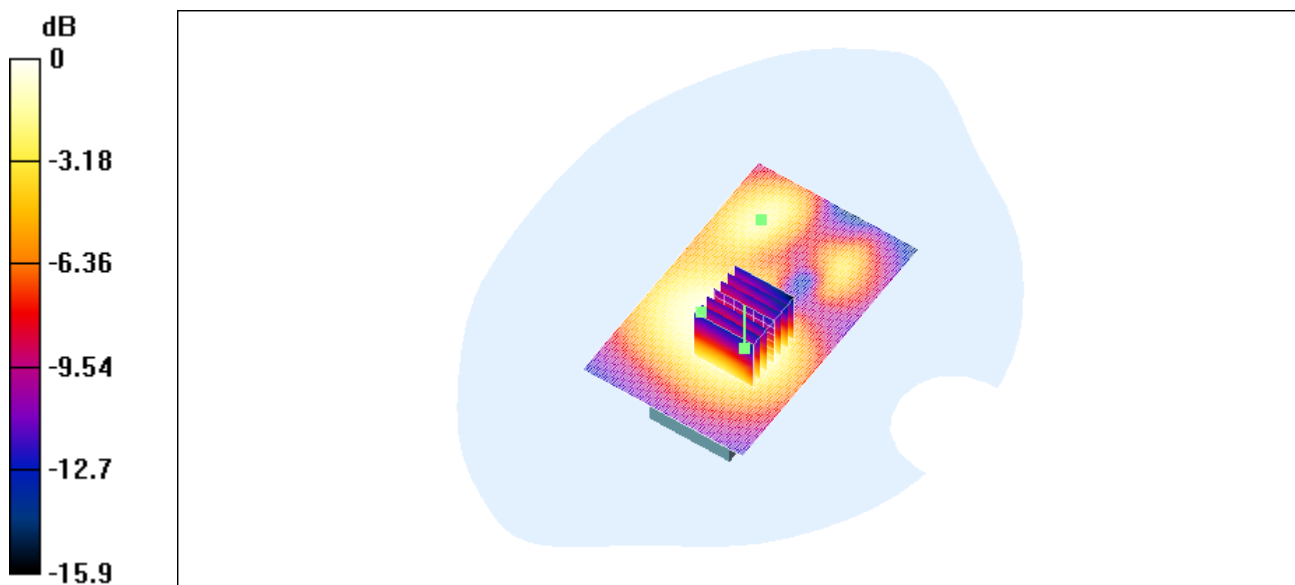
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.52 V/m; Power Drift = -0.005 dB

Maximum value of SAR (measured) = 0.144 mW/g

Peak SAR (extrapolated) = 0.210 W/kg

**SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.081 mW/g**



0 dB = 0.144mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## 1900\_flat\_ch810\_back

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Muscle 1900 MHz Medium parameters used (interpolated):  $f = 1909.8$  MHz;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.6, 4.6, 4.6); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (131x81x1):** Measurement grid: dx=10mm, dy=10mm

Reference Value = 6.75 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 0.151 mW/g

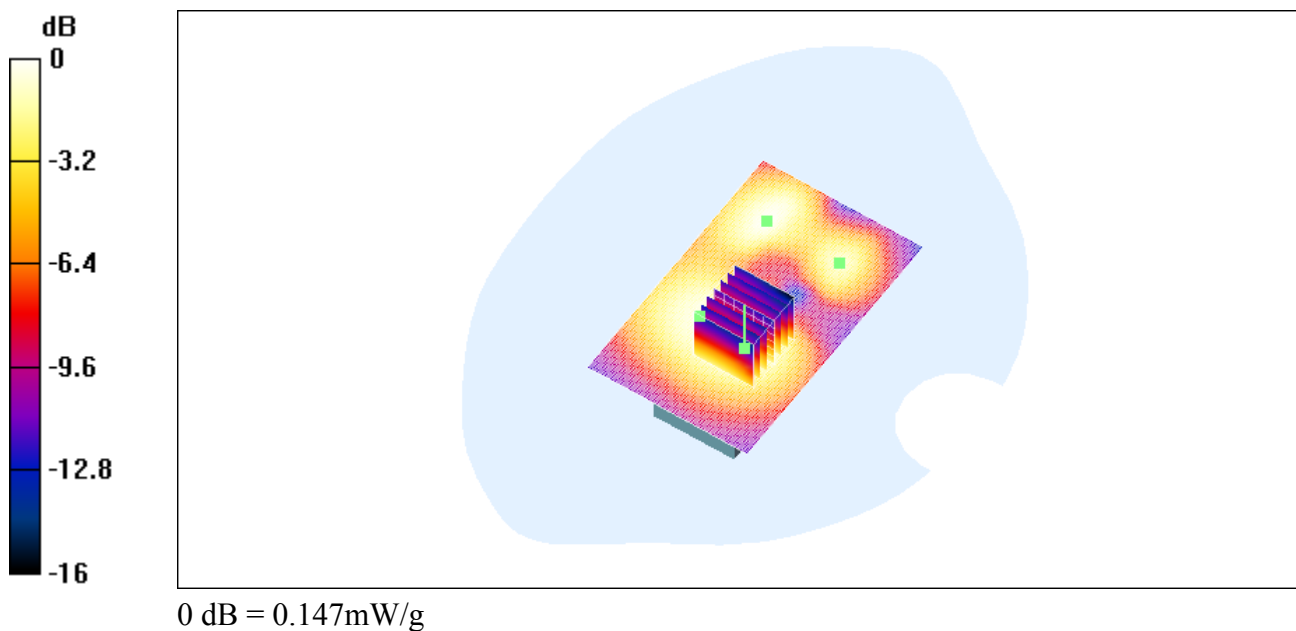
**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.75 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.147 mW/g

Peak SAR (extrapolated) = 0.219 W/kg

**SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.082 mW/g**



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

## Z-axis scan

**DUT: Dual Band GSM 850 (E-GSM) / PCS 1900 (with WAP & GPRS); Type: ---; Serial: GB310**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Head 850 MHz Medium parameters used (interpolated):  $f = 824.2$  MHz;  $\sigma = 0.892$  mho/m;

$\epsilon_r = 42.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(6.2, 6.2, 6.2); Calibrated: 12/16/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn522; Calibrated: 1/12/2004
- Phantom: SAM 12; Type: TP-1217; Serial: QD000P40CA
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

**GB310/Area Scan (91x161x1):** Measurement grid: dx=10mm, dy=10mm

Reference Value = 26 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.973 mW/g

**GB310/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.923 mW/g

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.861 mW/g; SAR(10 g) = 0.595 mW/g**

