

Appendix B

Measurement Plots

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

Dipol Valid.2450_(h)_250mW_11_08_05

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 722

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.84$ mho/m;

$\epsilon_r = 38$; $\rho = 1000$ kg/m³

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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Dipol 2450 (250mW)/Area Scan (61x61x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 16.8 mW/g

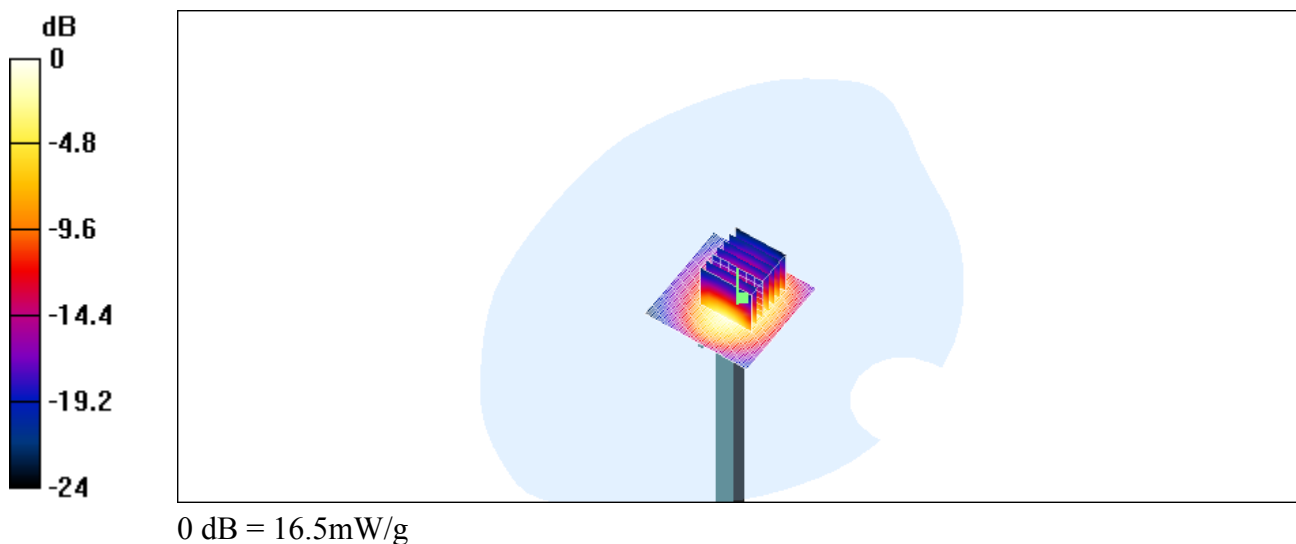
Dipol 2450 (250mW)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 94.4 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 31.5 W/kg

SAR(1 g) = 14.4 mW/g; SAR(10 g) = 6.61 mW/g

Maximum value of SAR (measured) = 16.5 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

Dipol Valid.2450_(m)_250mW_11_08_05

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 722

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 2$ mho/m;

$\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.1, 4.1, 4.1); 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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Dipol 2450 (250mW)/Area Scan (61x61x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.7 mW/g

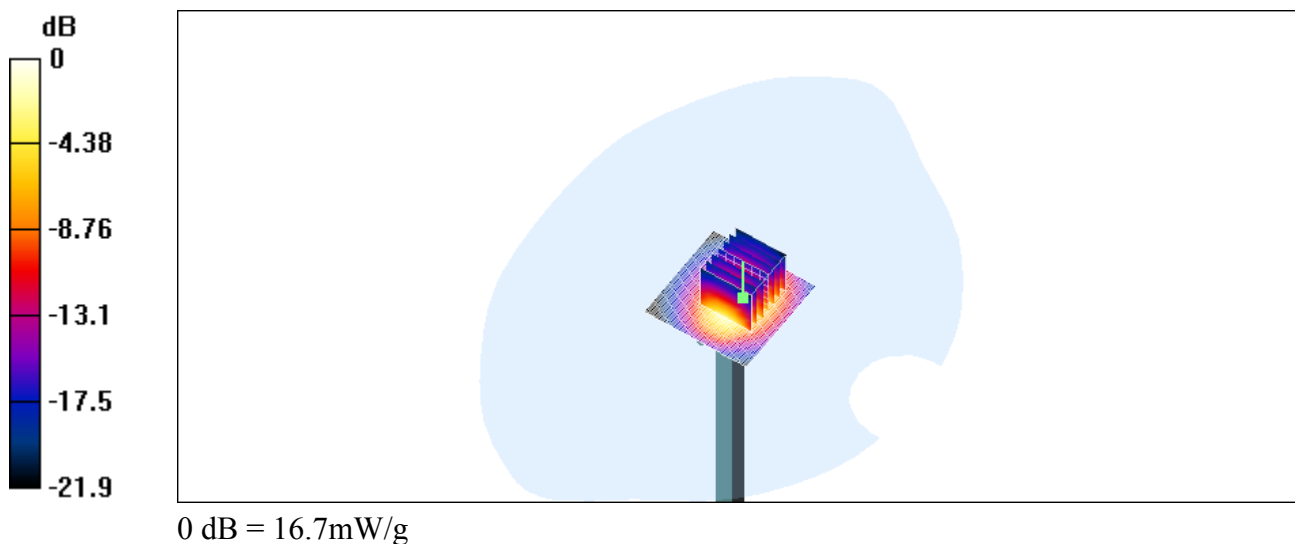
Dipol 2450 (250mW)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 86.1 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 35.9 W/kg

SAR(1 g) = 14.11 mW/g; SAR(10 g) = 6.289 mW/g

Maximum value of SAR (measured) = 16.7 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

Dipol Valid.2450_(m)_250mW_12_08_05

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 722

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 2$ mho/m;

$\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1711; ConvF(4.1, 4.1, 4.1); 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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Dipol 2450 (250mW)/Area Scan (61x61x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 17.8 mW/g

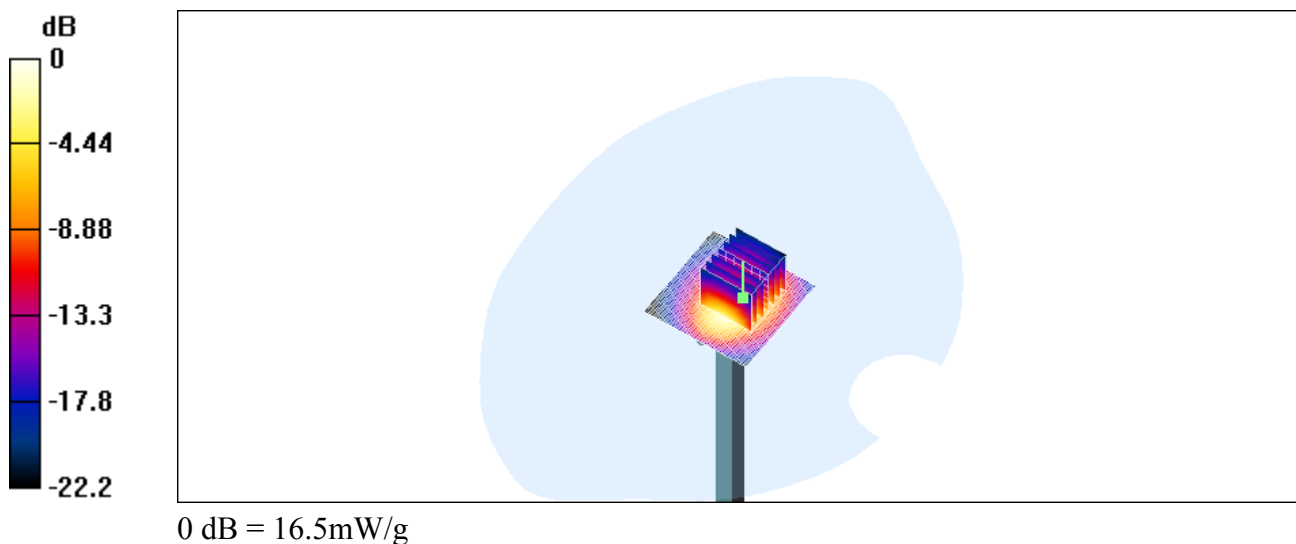
Dipol 2450 (250mW)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 35.9 W/kg

SAR(1 g) = 14.09 mW/g; SAR(10 g) = 6.34 mW/g

Maximum value of SAR (measured) = 16.5 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

left_ch47_cheek

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2441.66 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2441.66$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Left 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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

left_ch47_cheek/Area Scan (71x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.233 mW/g

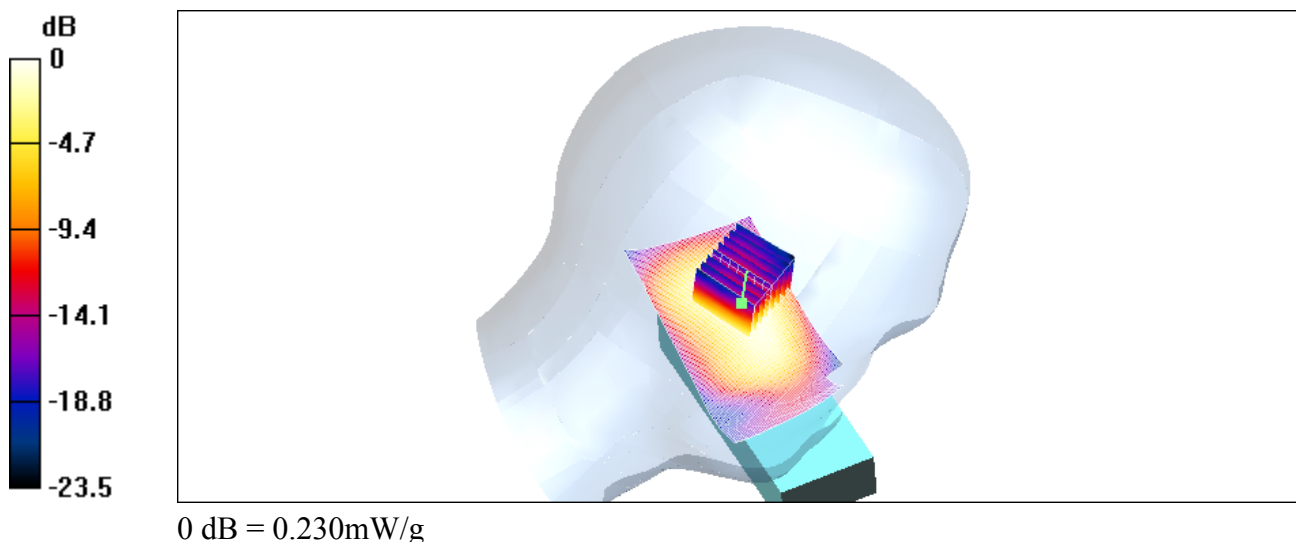
left_ch47_cheek/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.417 W/kg

SAR(1 g) = 0.210 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.230 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

left_ch47_tilted

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2441.66 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2441.66$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Left 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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

left_ch47_cheek/Area Scan (71x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.172 mW/g

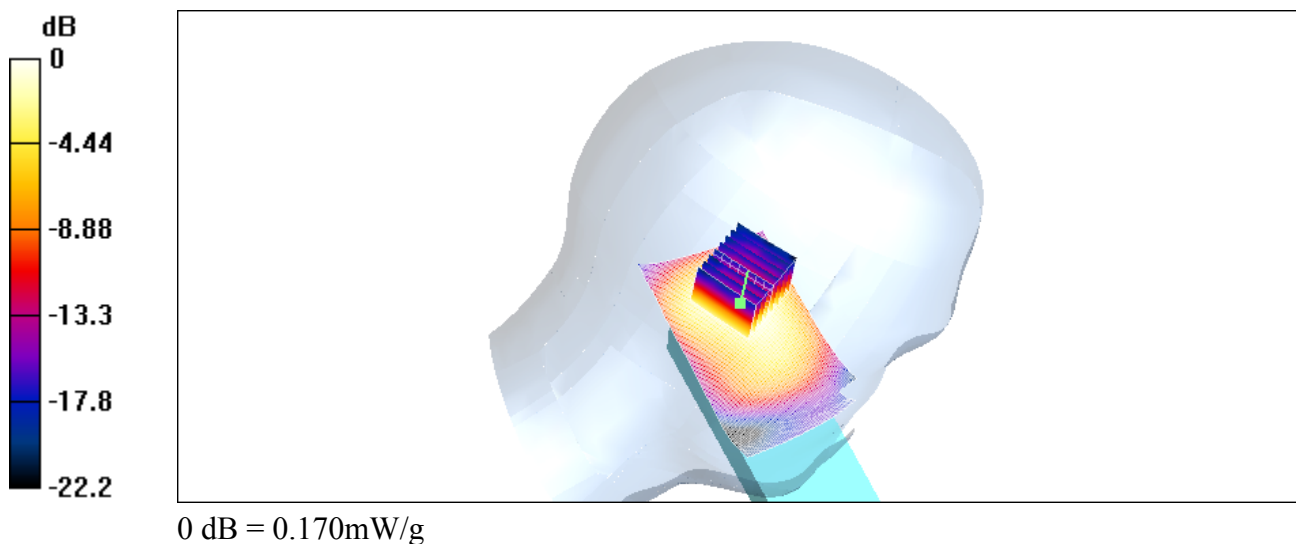
left_ch47_cheek/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.9 V/m; Power Drift = -0.0003 dB

Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.082 mW/g

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



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

right_ch47_cheek

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2441.66 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2441.66$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Right 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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

right_ch47_cheek/Area Scan (71x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.237 mW/g

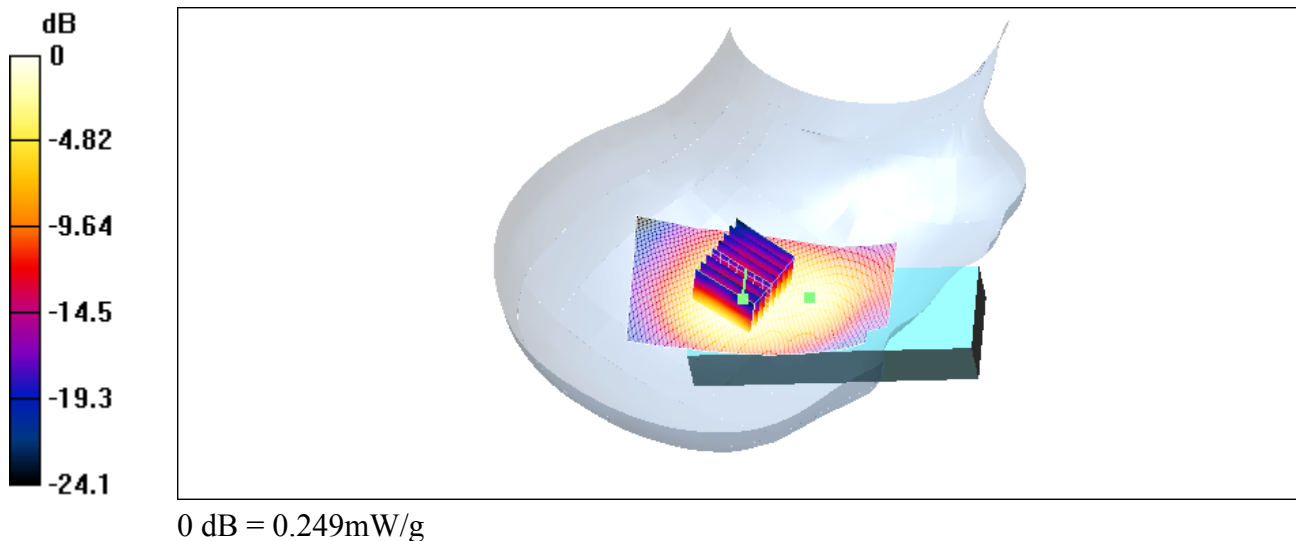
right_ch47_cheek/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.51 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.115 mW/g

Maximum value of SAR (measured) = 0.249 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

right_ch47_tilted

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2441.66 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2441.66$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Right 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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

right_ch47_cheek/Area Scan (71x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.166 mW/g

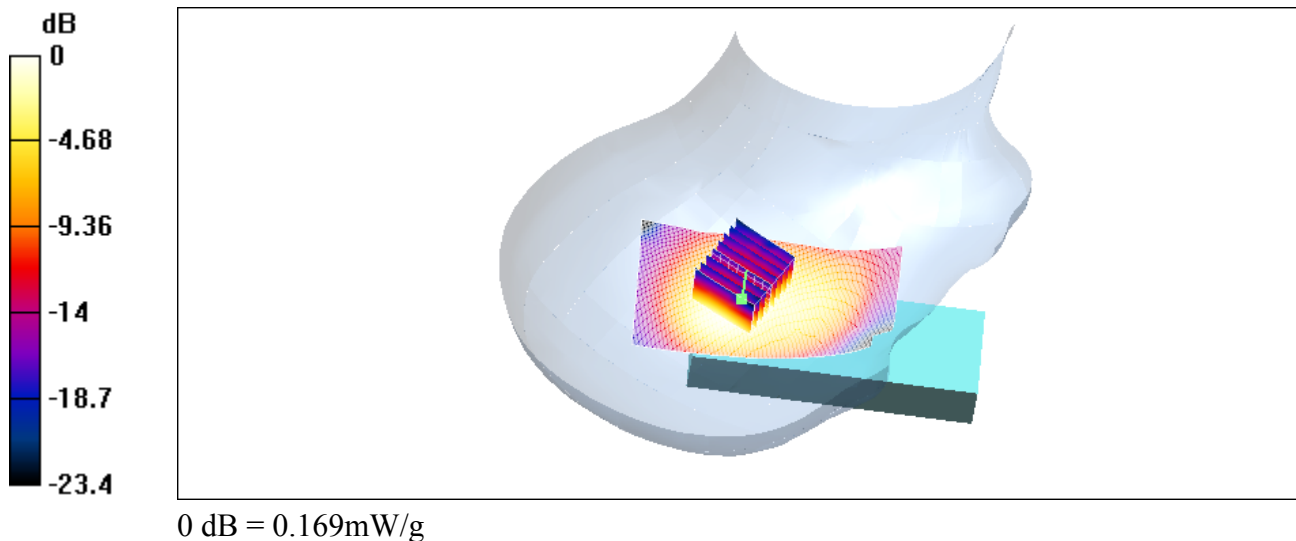
right_ch47_cheek/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.1 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.293 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.169 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

right_ch0_cheek

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2401.05 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2401.05$ MHz; $\sigma = 1.79$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Right 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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

right_ch47_cheek/Area Scan (71x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.236 mW/g

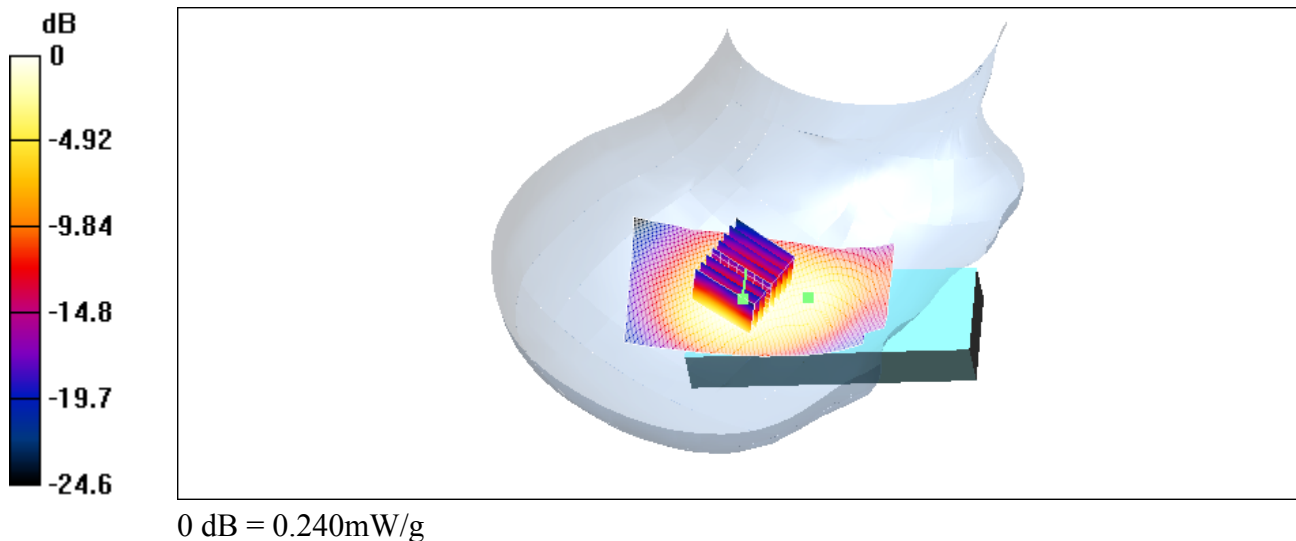
right_ch47_cheek/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.48 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.113 mW/g

Maximum value of SAR (measured) = 0.240 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

right_ch94_cheek

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2482.27 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2482.27$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.8$; $\rho = 1000$ kg/m³

Phantom section: Right 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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

right_ch47_cheek/Area Scan (71x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.219 mW/g

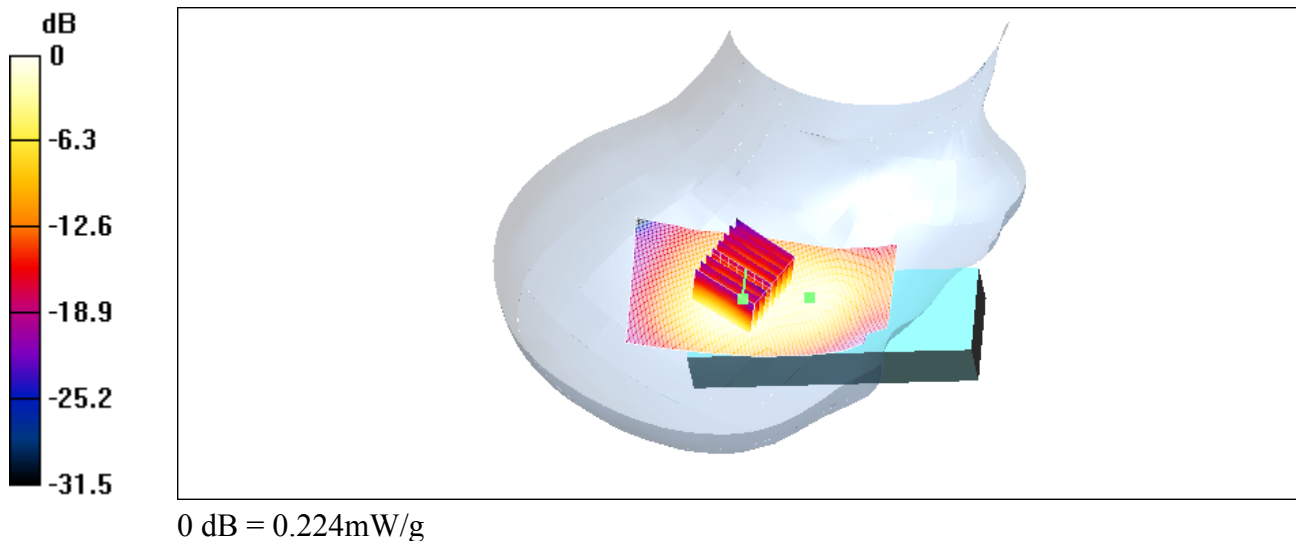
right_ch47_cheek/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.88 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.405 W/kg

SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.224 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

flat_ch47_front

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2482.27 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2482.27 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.8$; $\rho = 1000 \text{ kg/m}^3$

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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

flat_ch47_front/Area Scan (71x151x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 0.228 mW/g

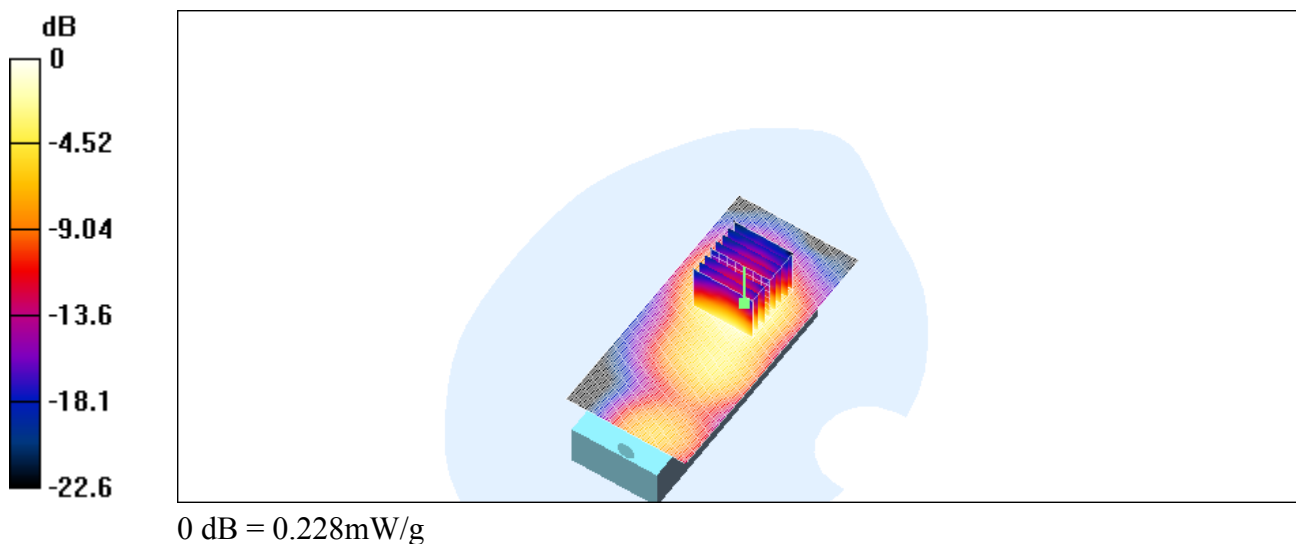
flat_ch47_front/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.52 V/m ; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.419 W/kg

SAR(1 g) = 0.208 mW/g ; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.228 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

flat_ch47_back

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2482.27 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2482.27 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.8$; $\rho = 1000 \text{ kg/m}^3$

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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

flat_ch47_back/Area Scan (71x151x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.079 mW/g

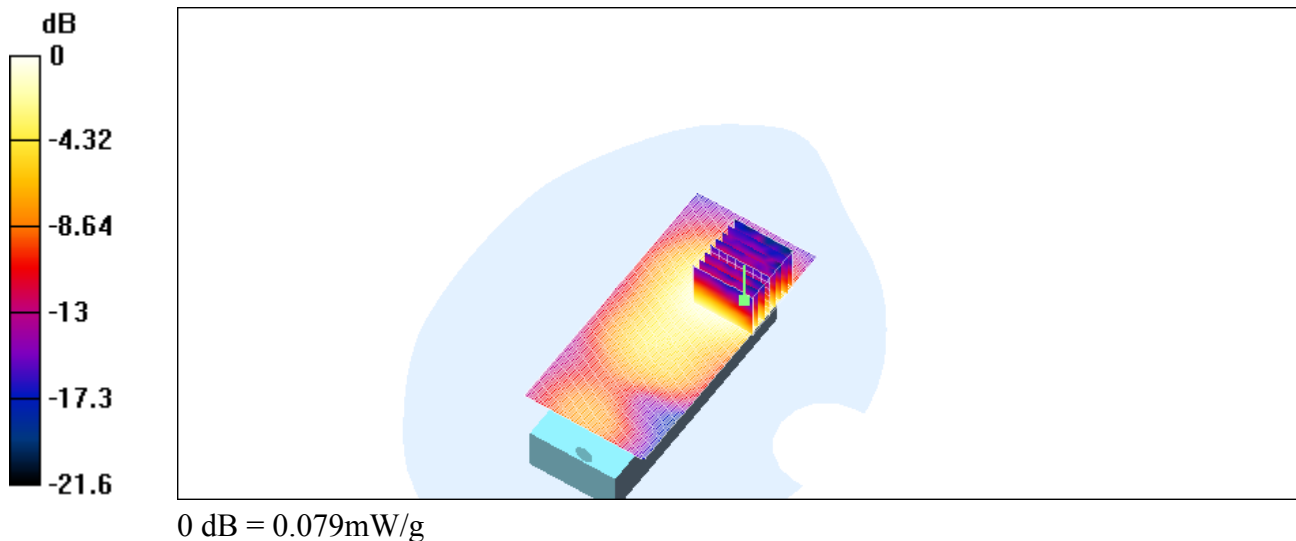
flat_ch47_back/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.31 V/m ; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.160 W/kg

SAR(1 g) = 0.072 mW/g ; SAR(10 g) = 0.040 mW/g

Maximum value of SAR (measured) = 0.079 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

flat_ch0_front

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2401.05 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2401.05$ MHz; $\sigma = 1.79$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

flat_ch0_front/Area Scan (71x151x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.222 mW/g

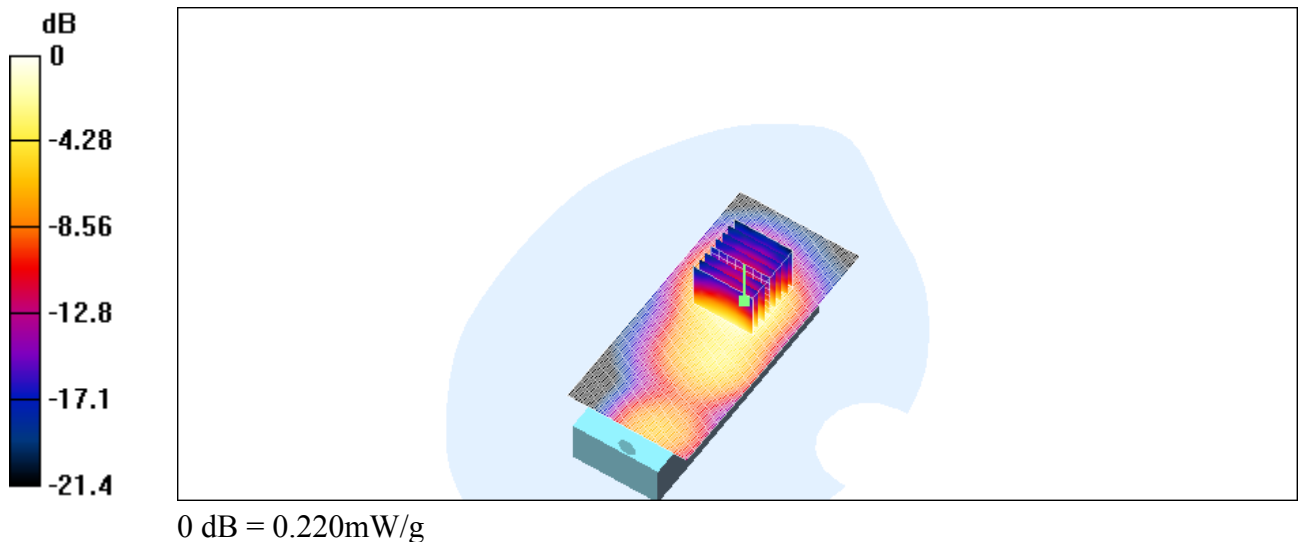
flat_ch0_front/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.6 V/m; Power Drift = 0.008 dB

Peak SAR (extrapolated) = 0.403 W/kg

SAR(1 g) = 0.204 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR (measured) = 0.220 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

flat_ch94_front

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2482.27 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2482.27 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 37.8$; $\rho = 1000 \text{ kg/m}^3$

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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

flat_ch94_front/Area Scan (71x151x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 0.206 mW/g

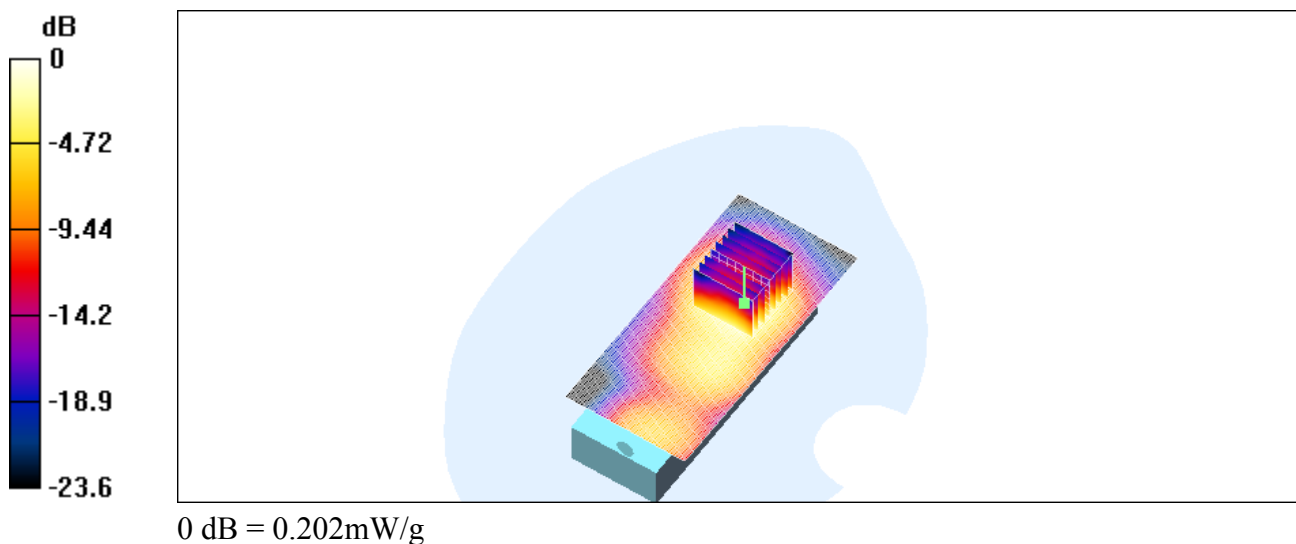
flat_ch94_front/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.03 V/m ; Power Drift = -0.007 dB

Peak SAR (extrapolated) = 0.382 W/kg

SAR(1 g) = 0.188 mW/g ; SAR(10 g) = 0.097 mW/g

Maximum value of SAR (measured) = 0.202 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

Z-axis scan

DUT: 2.4GHz Cordless VoIP Telephone; Type: USB7100 / 7200; Serial: -

Communication System: DECT 2G4; Frequency: 2441.66 MHz; Duty Cycle: 1:25

Medium: Head 2450 MHz Medium parameters used (interpolated): $f = 2441.66$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Right 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, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

left_ch47_cheek/Area Scan (71x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.237 mW/g

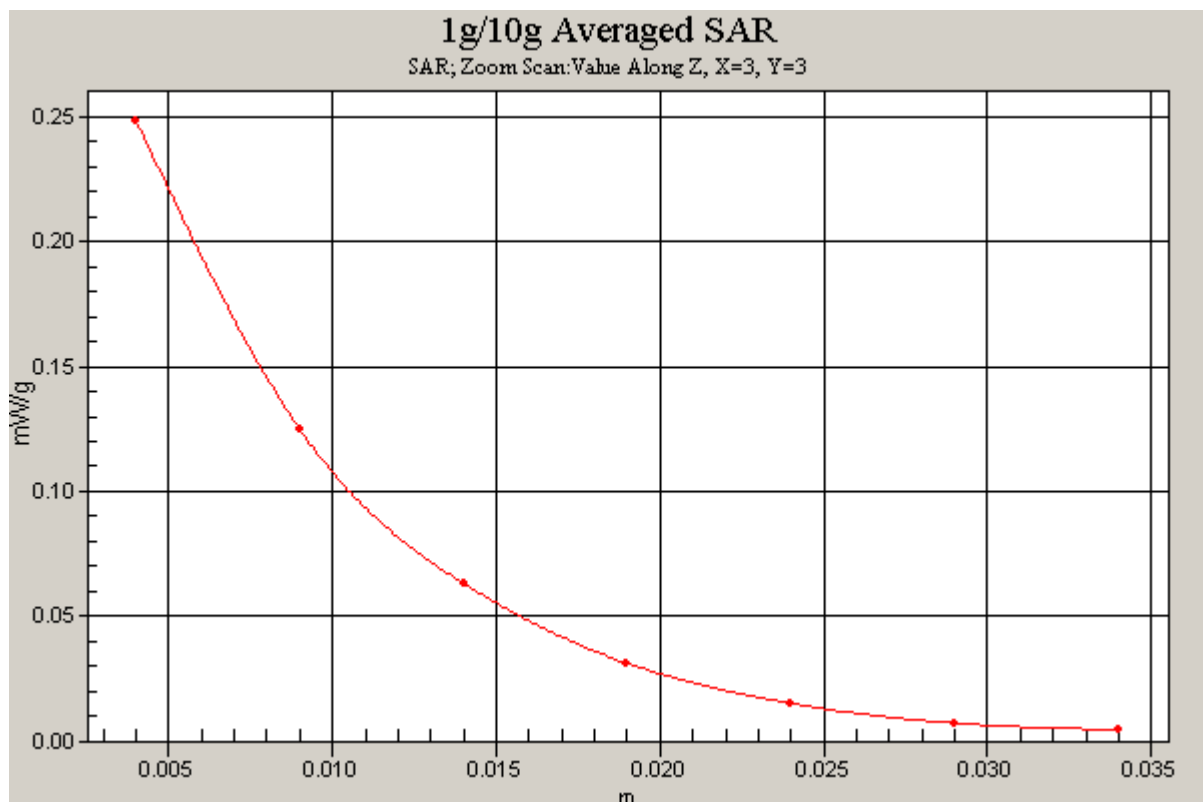
left_ch47_cheek/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.51 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.115 mW/g

Maximum value of SAR (measured) = 0.249 mW/g



Appendix C

Pictures

Appendix

C. Pictures





