

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

1900_left_ch661_chek

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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

Medium: Head 1900 MHz Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

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

EB_X100U/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 21.2 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.640 mW/g

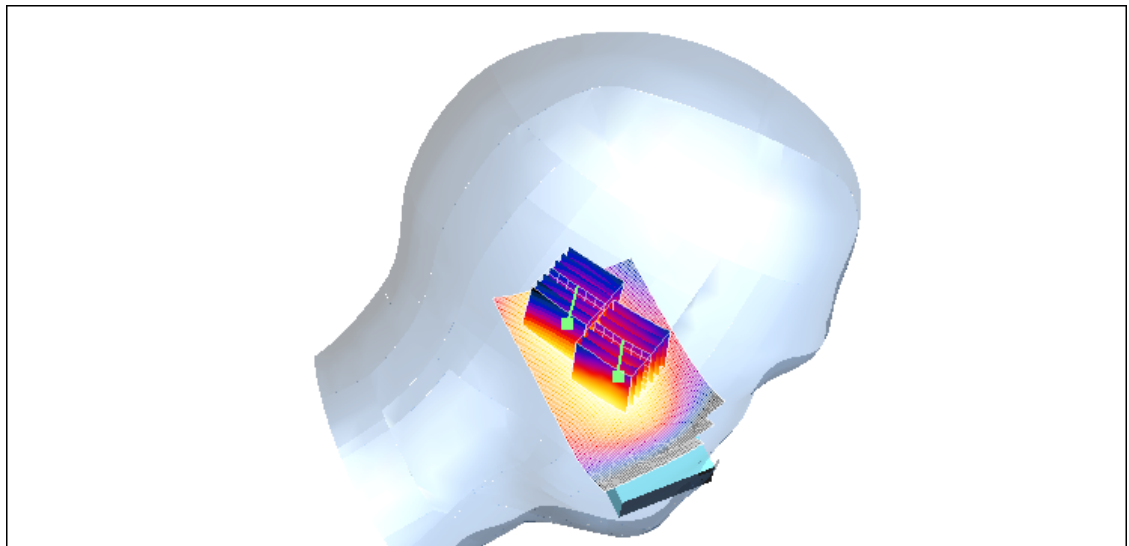
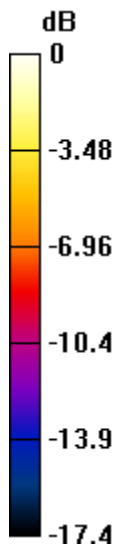
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.2 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.634 mW/g

Peak SAR (extrapolated) = 0.907 W/kg

SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.331 mW/g



0 dB = 0.634mW/g

Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

1900_left_ch661_tilted

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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

Medium: Head 1900 MHz Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

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

EB_X100U/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 20.8 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 0.570 mW/g

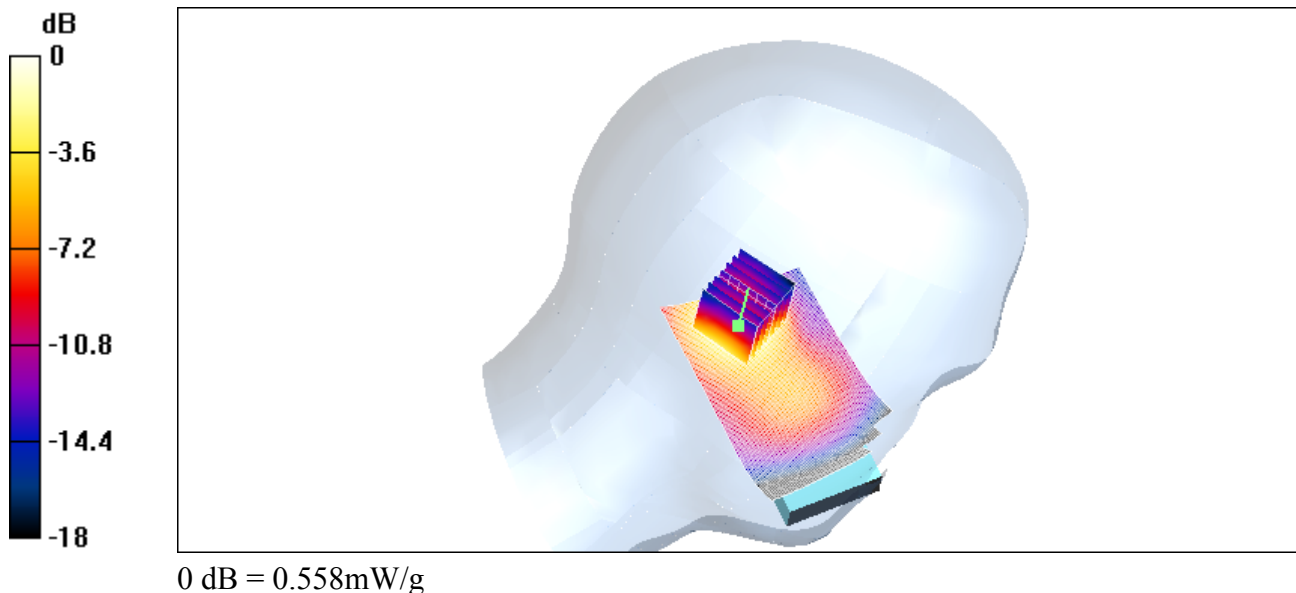
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.8 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.558 mW/g

Peak SAR (extrapolated) = 0.788 W/kg

SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.280 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

1900_right_ch661_cheek

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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

Medium: Head 1900 MHz Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

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

EB_X100U/Area Scan (71x111x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 20.4 V/m; Power Drift = -0.02 dB

Maximum value of SAR (interpolated) = 0.733 mW/g

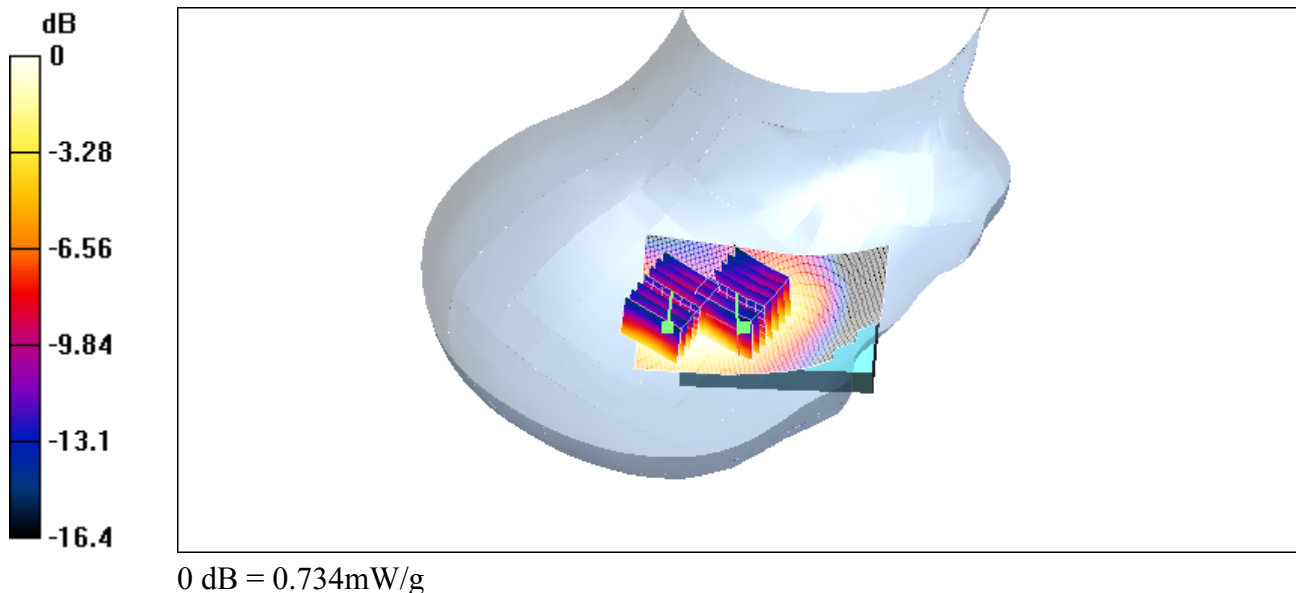
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.4 V/m; Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.734 mW/g

Peak SAR (extrapolated) = 1.1 W/kg

SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.353 mW/g



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1900_right_ch661_tilted

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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

Medium: Head 1900 MHz Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.9$; $\rho = 1000$ kg/m³

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

EB_X100U/Area Scan (71x111x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 22.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.684 mW/g

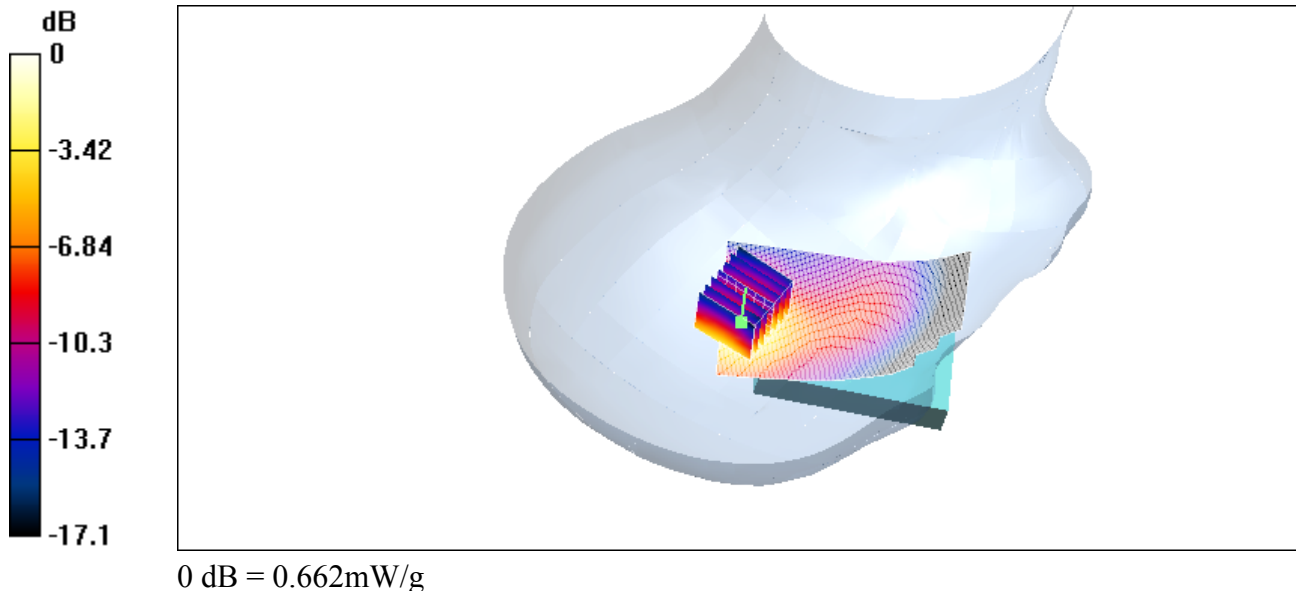
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.4 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.662 mW/g

Peak SAR (extrapolated) = 0.941 W/kg

SAR(1 g) = 0.594 mW/g; SAR(10 g) = 0.329 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

1900_right_ch512_cheek

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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

Medium: Head 1900 MHz Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon = 39.9$; $\rho = 1000 \text{ kg/m}^3$

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

EB_X100U/Area Scan (71x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Reference Value = 18.9 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 0.665 mW/g

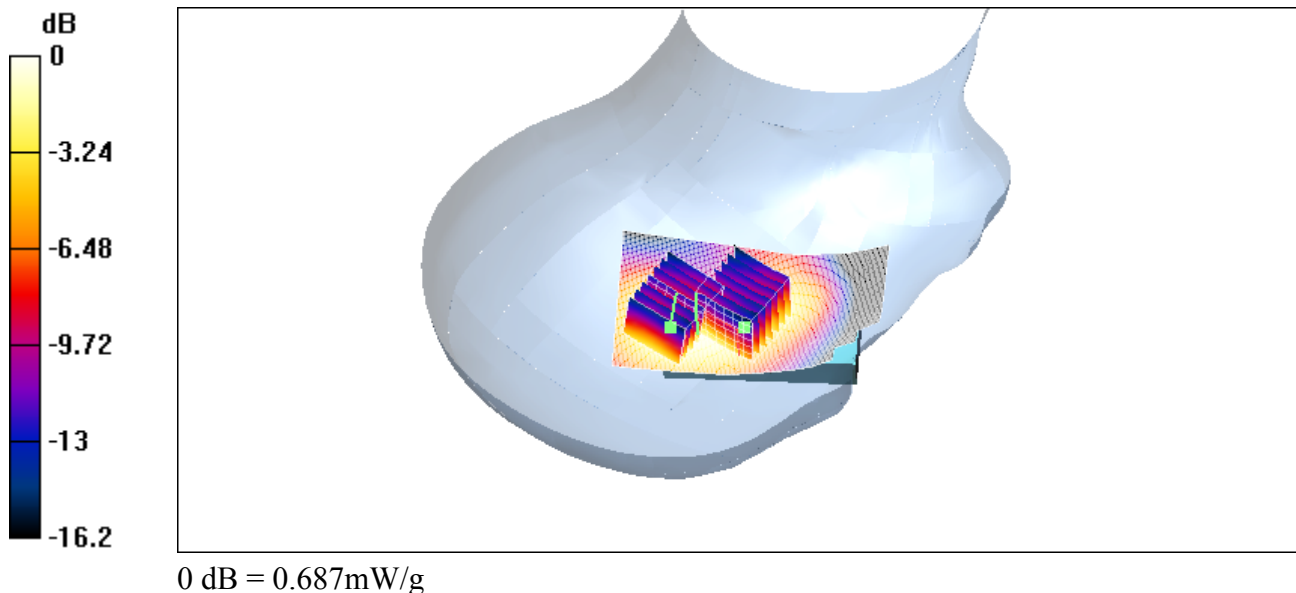
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.9 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 0.687 mW/g

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.332 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

1900_right_ch810_cheek

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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/m³

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

EB_X100U/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 17.4 V/m; Power Drift = -0.02 dB

Maximum value of SAR (interpolated) = 0.562 mW/g

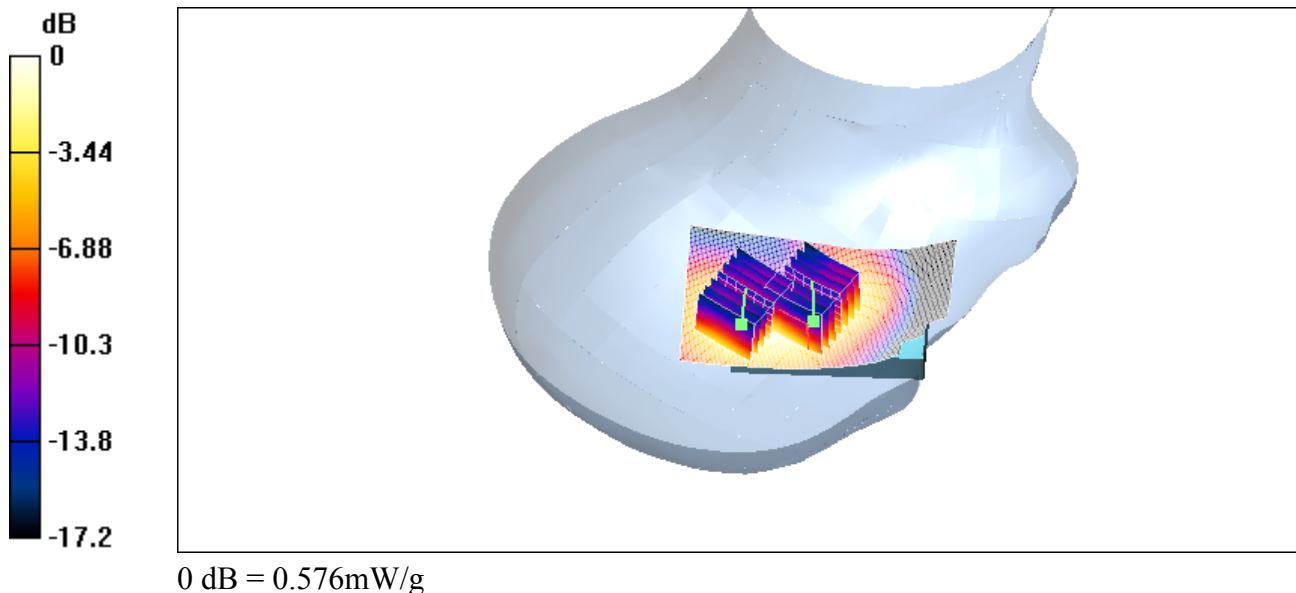
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.4 V/m; Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.576 mW/g

Peak SAR (extrapolated) = 0.860 W/kg

SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.281 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

1900_flat_ch661_front

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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

Medium: Muscle 1900 MHz Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ 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, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

EB_X100U/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 9.46 V/m; Power Drift = -0.02 dB

Maximum value of SAR (interpolated) = 0.140 mW/g

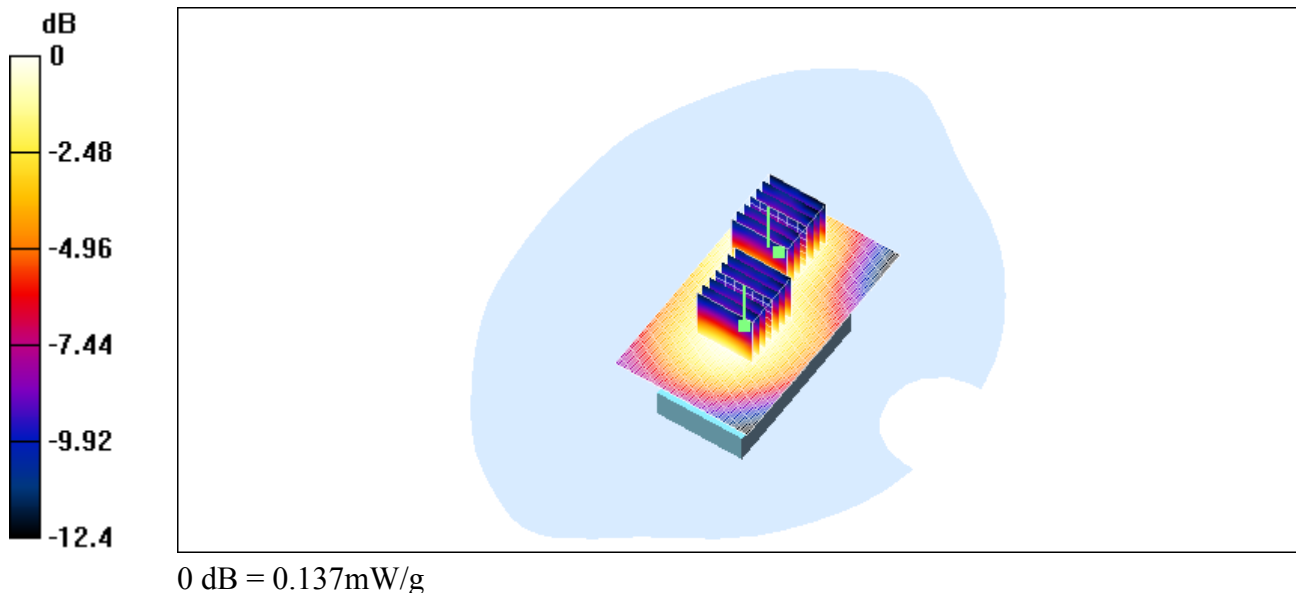
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.46 V/m; Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.137 mW/g

Peak SAR (extrapolated) = 0.196 W/kg

SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.079 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

1900_flat_ch661_back

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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

EB_X100U/Area Scan (71x121x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Reference Value = 12.1 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 1.1 mW/g

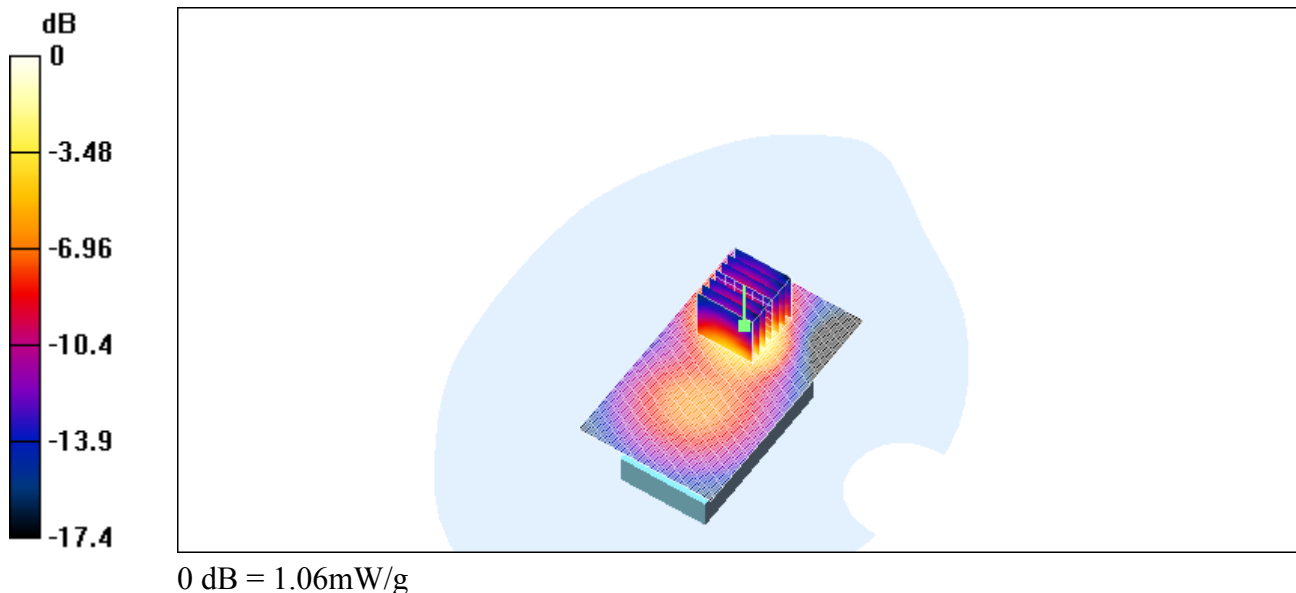
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.1 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 1.06 mW/g

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.936 mW/g; SAR(10 g) = 0.501 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

1900_flat_ch512_back

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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/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, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

EB_X100U/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 11.9 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 1.06 mW/g

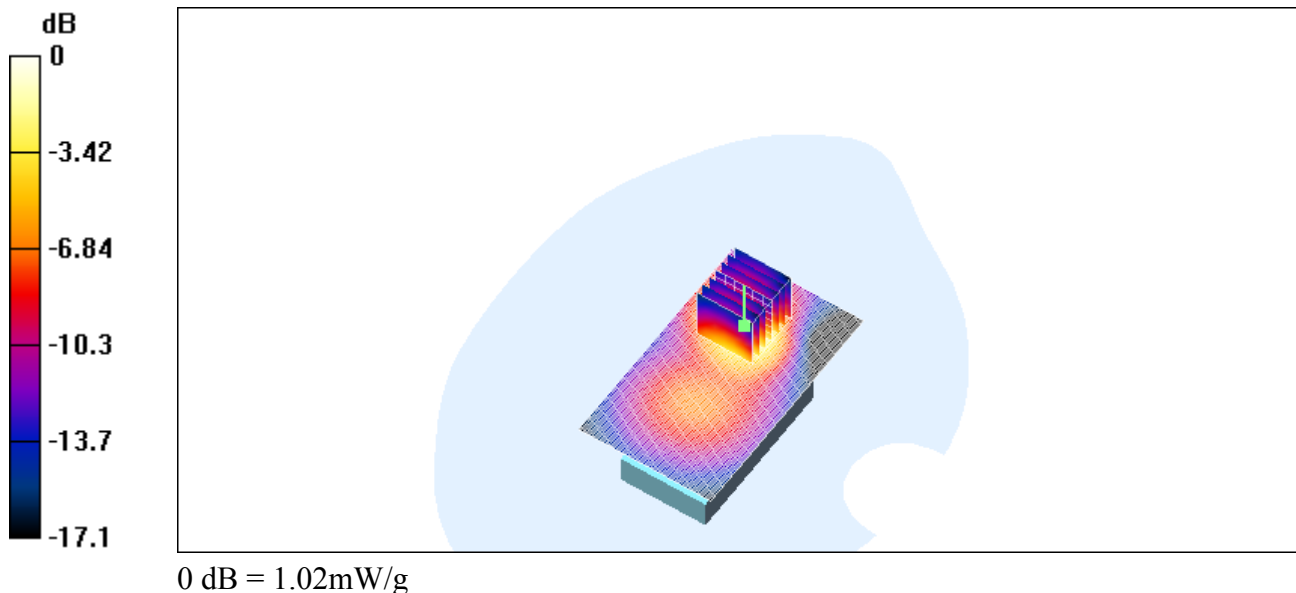
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = 0.0 dB

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

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.917 mW/g; SAR(10 g) = 0.492 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

1900_flat_ch810_back

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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/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, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

EB_X100U/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 12.3 V/m; Power Drift = -0.0 dB

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

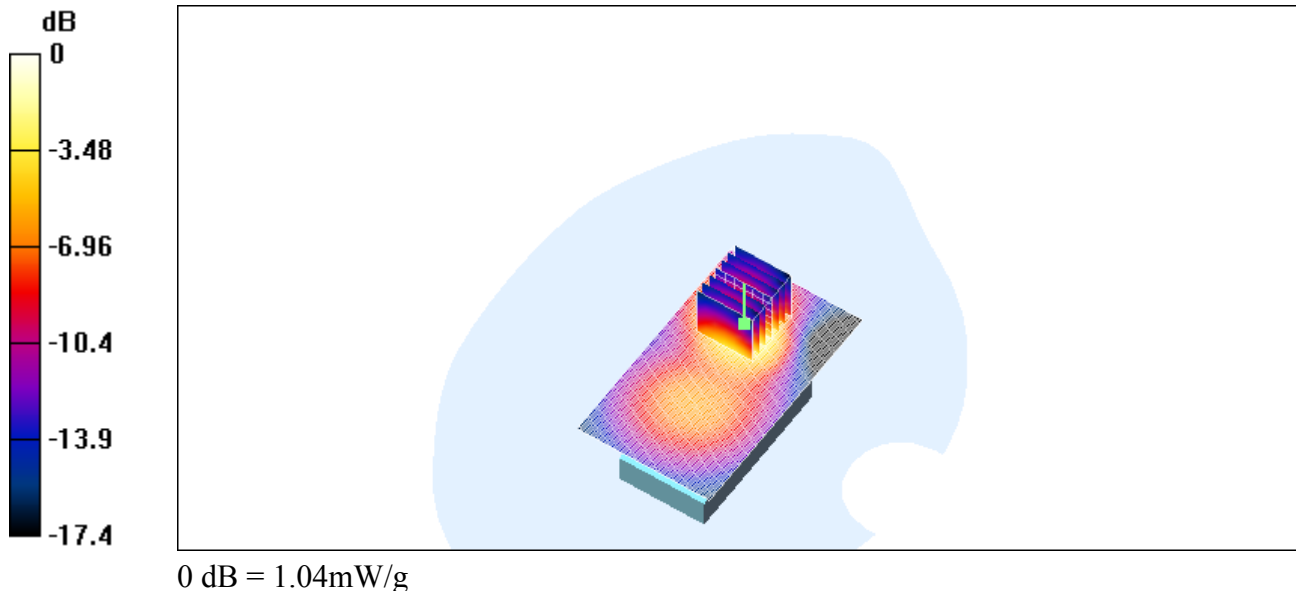
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.3 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 1.04 mW/g

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.496 mW/g



Test Laboratory: ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH

Z-axis scan

DUT: GPRS Dual-Band(GSM850/PCS1900)Handset Phase II+; Type: ---; Serial: EB-X100U

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

Medium: Muscle 1900 MHz Medium parameters used: $f = 1880$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ 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, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

EB_X100U/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 12.1 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 1.1 mW/g

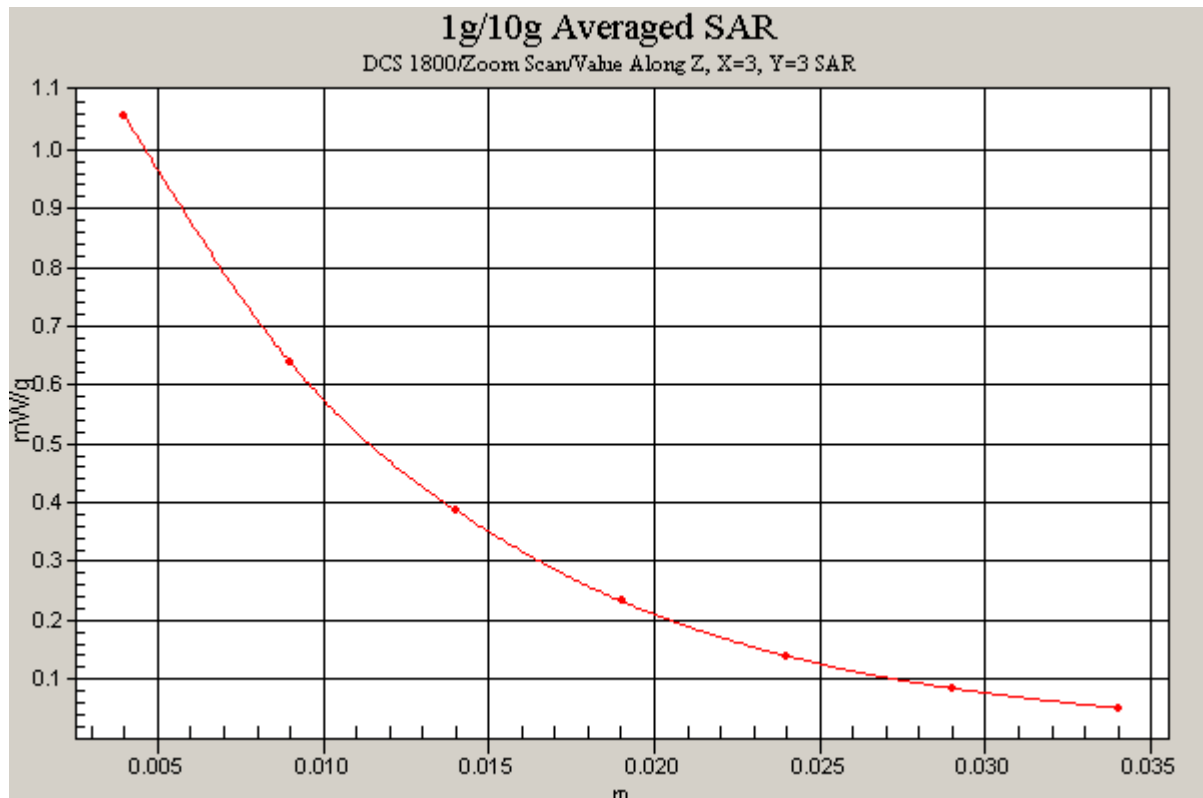
EB_X100U/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 1.06 mW/g

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.936 mW/g; SAR(10 g) = 0.501 mW/g



Appendix C

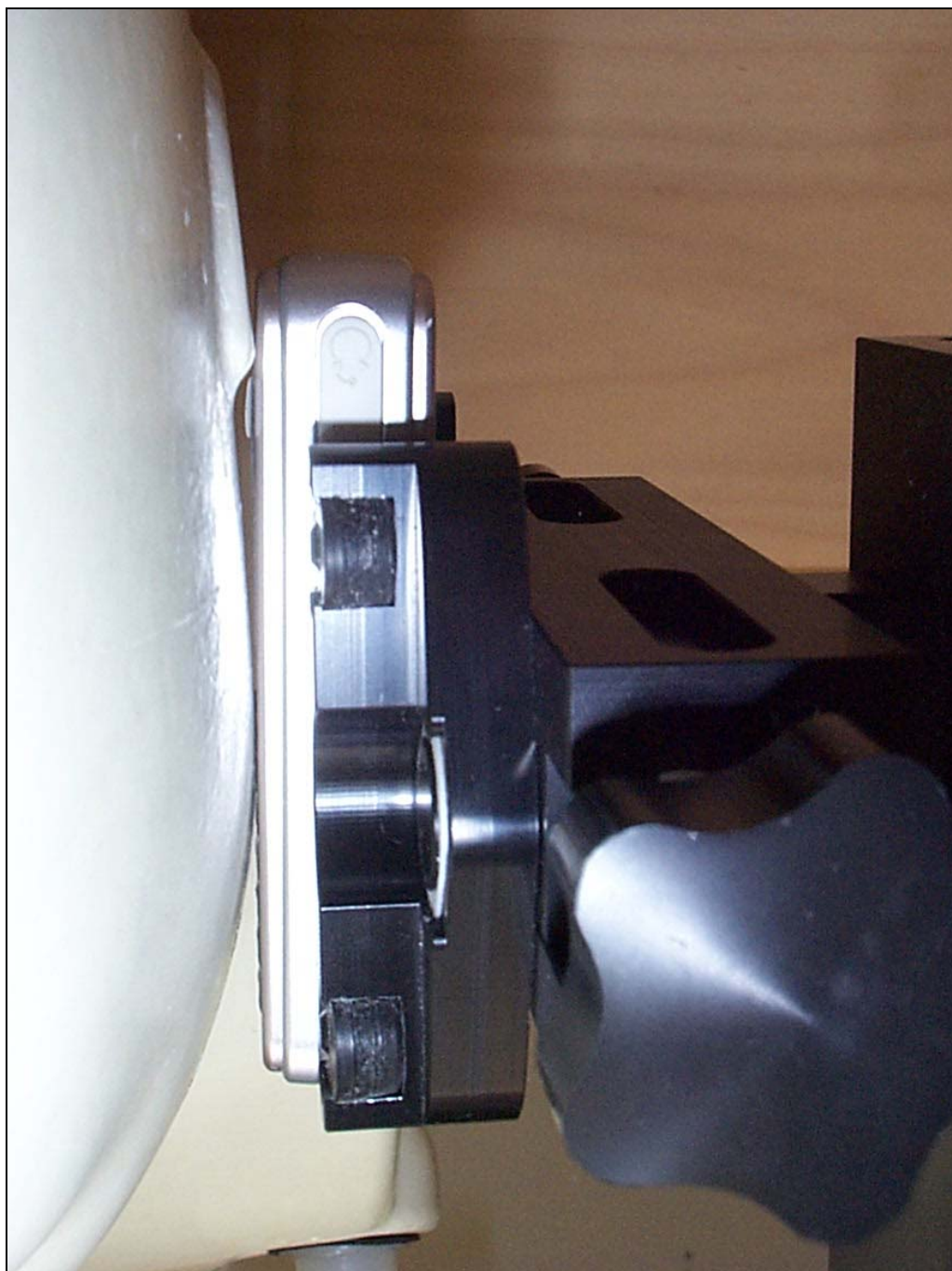
Pictures

Appendix

C. Pictures













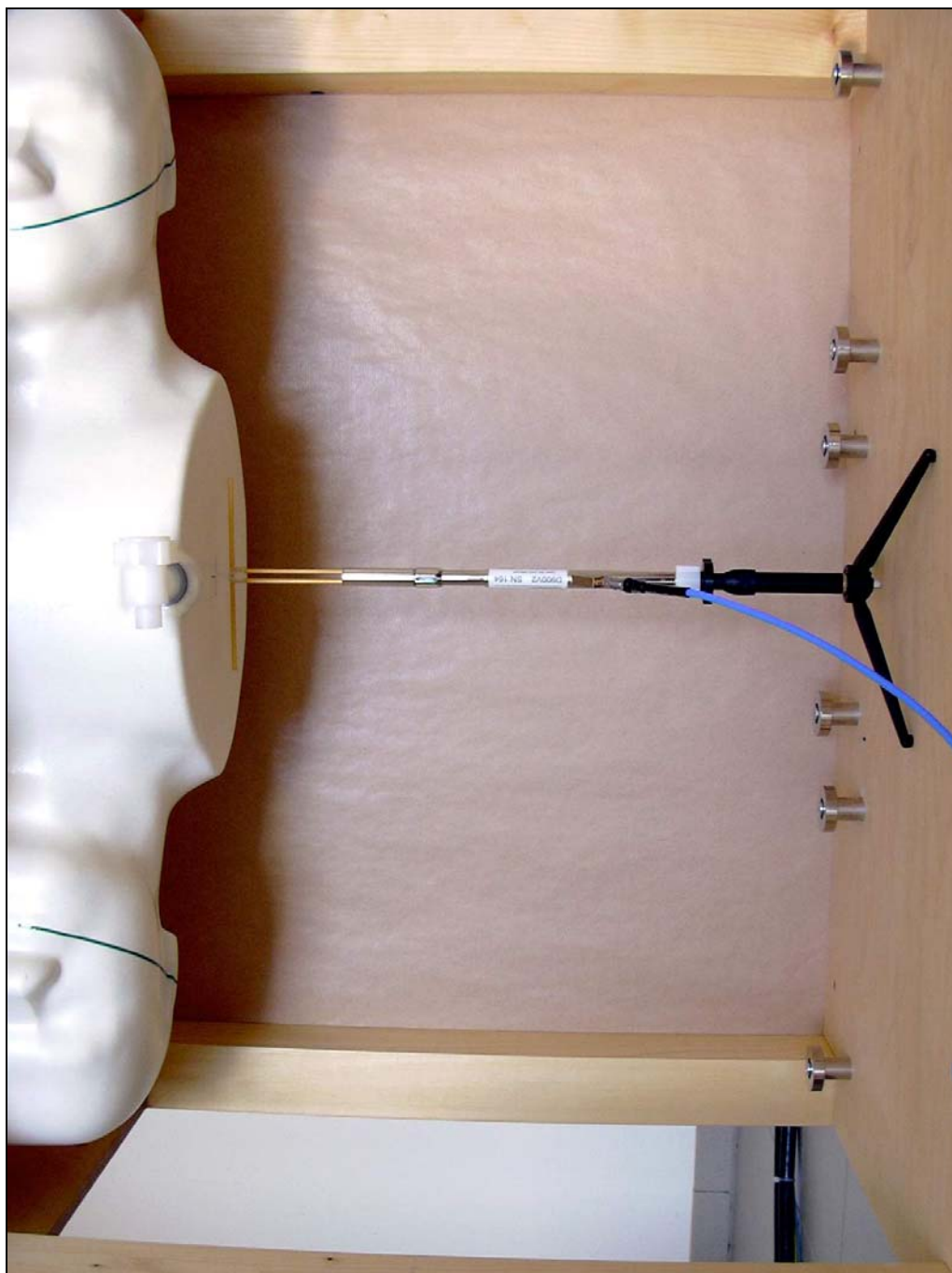


Spacing from flat phantom was adjusted at 1.5 cm.

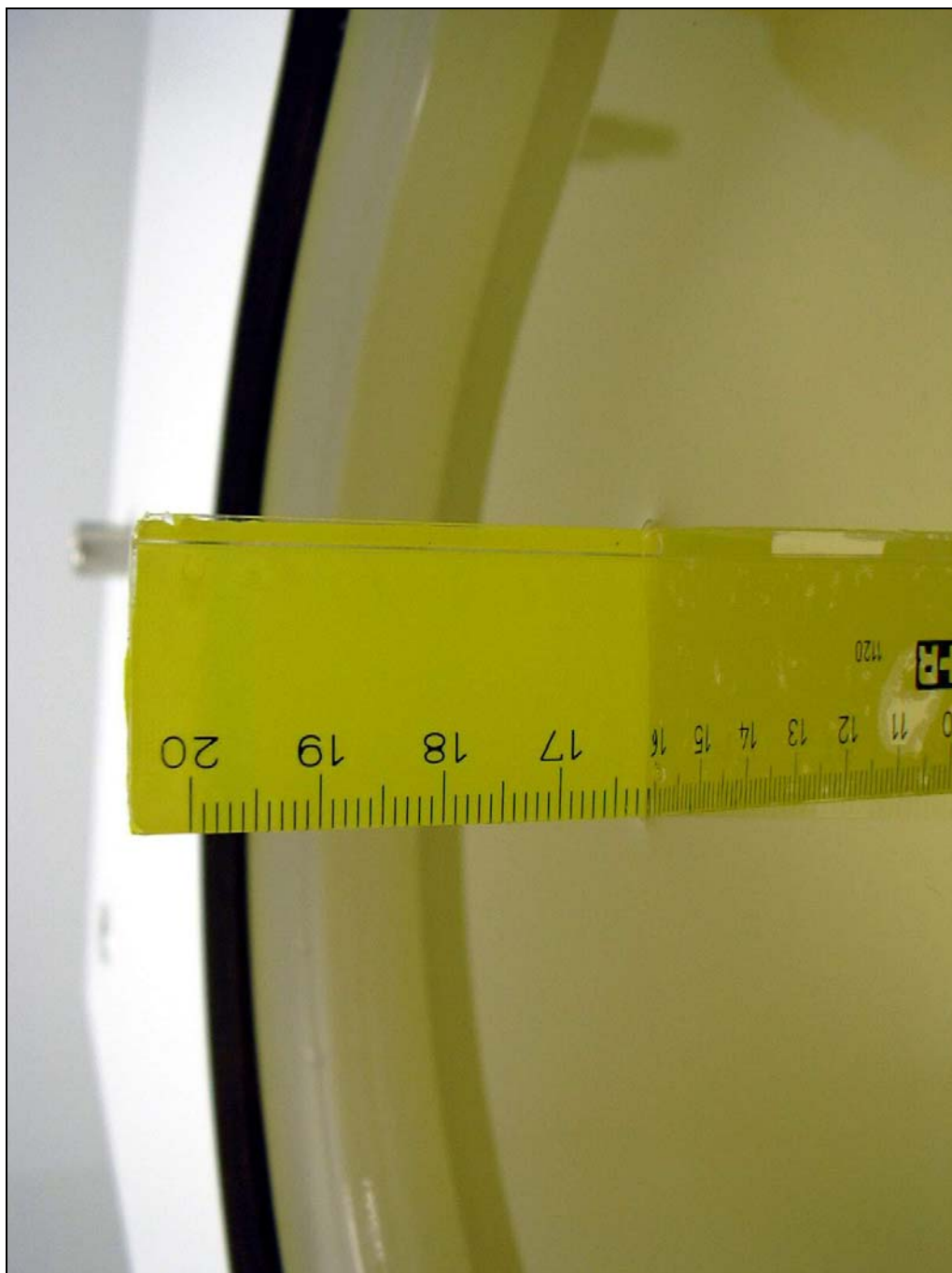


Spacing from flat phantom was adjusted at 1.5 cm.

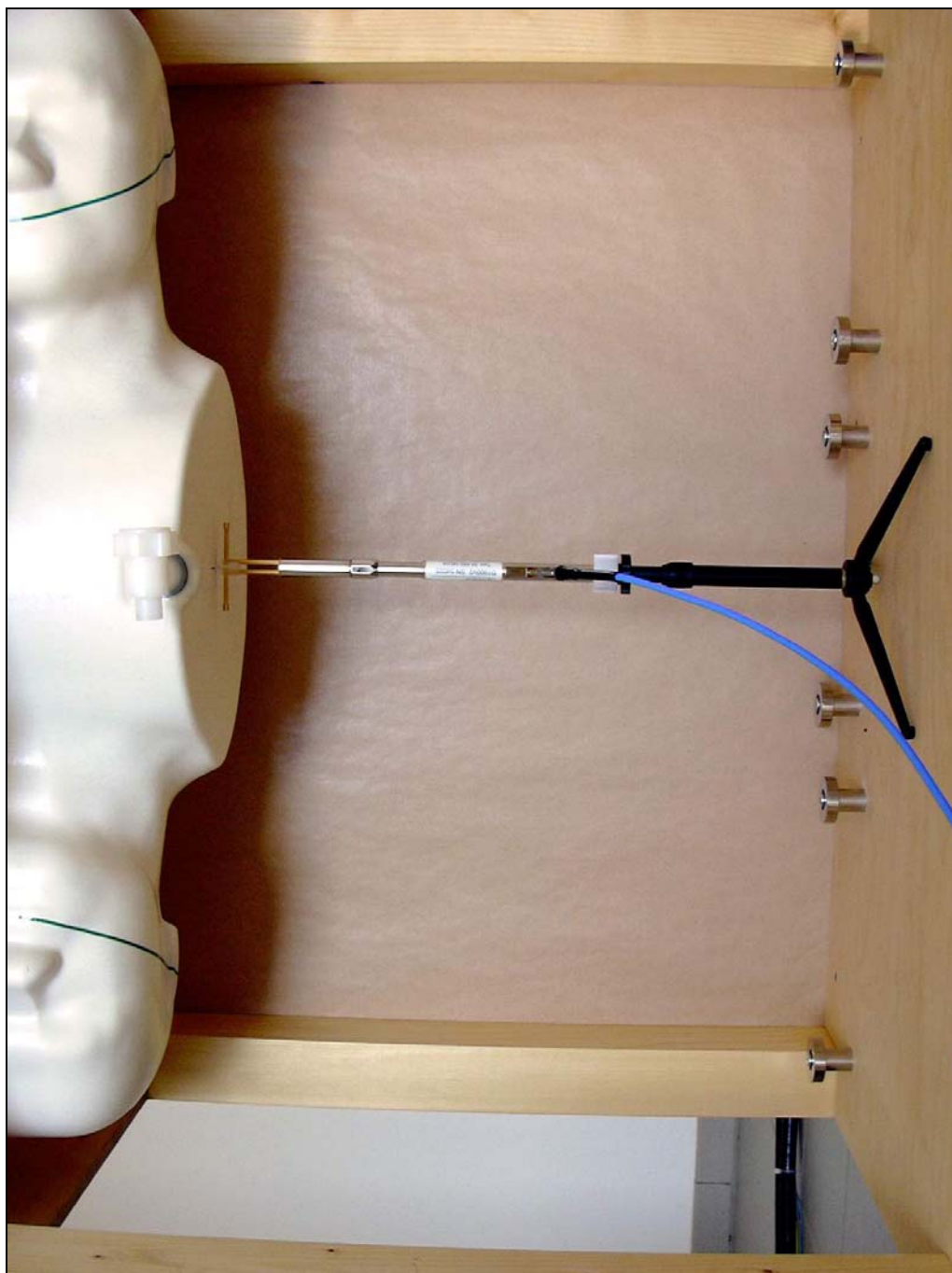
Valid 900



Liquid 900



Valid 1900



Liquid 1900

