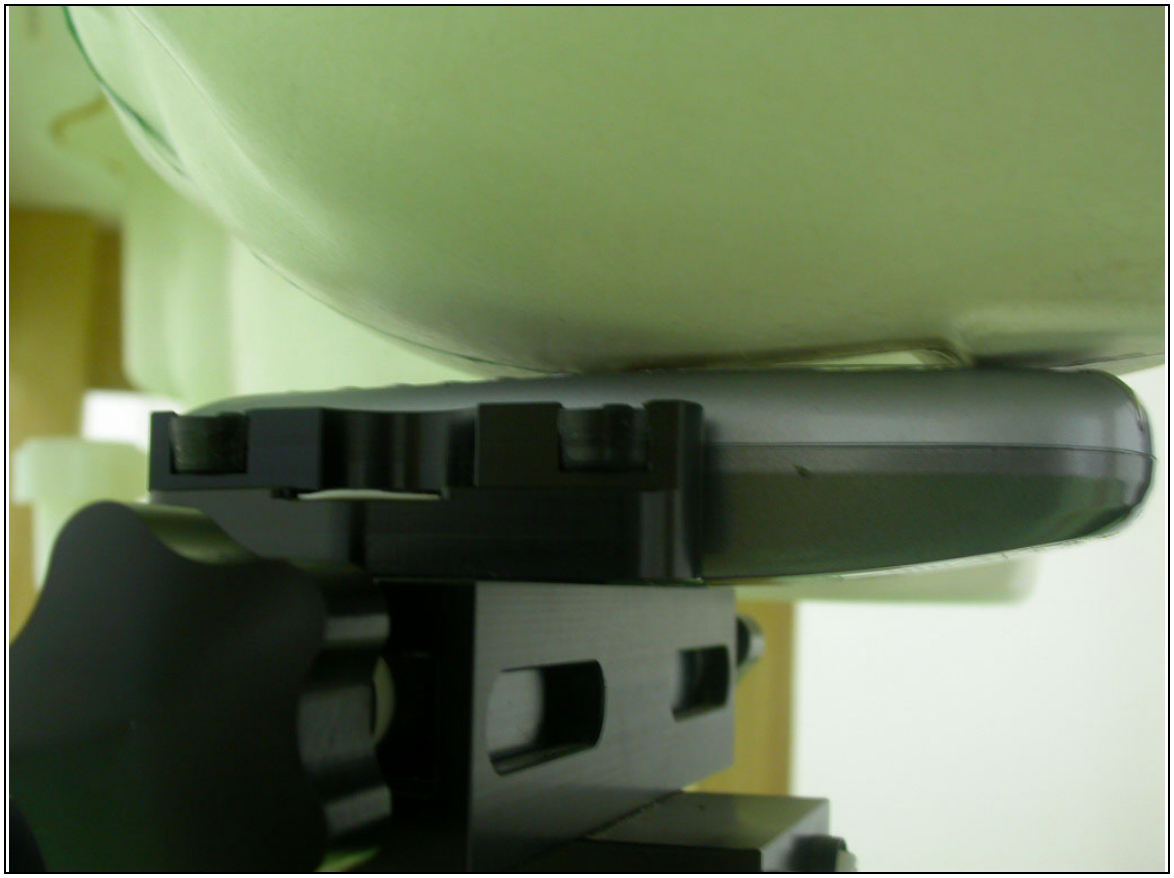
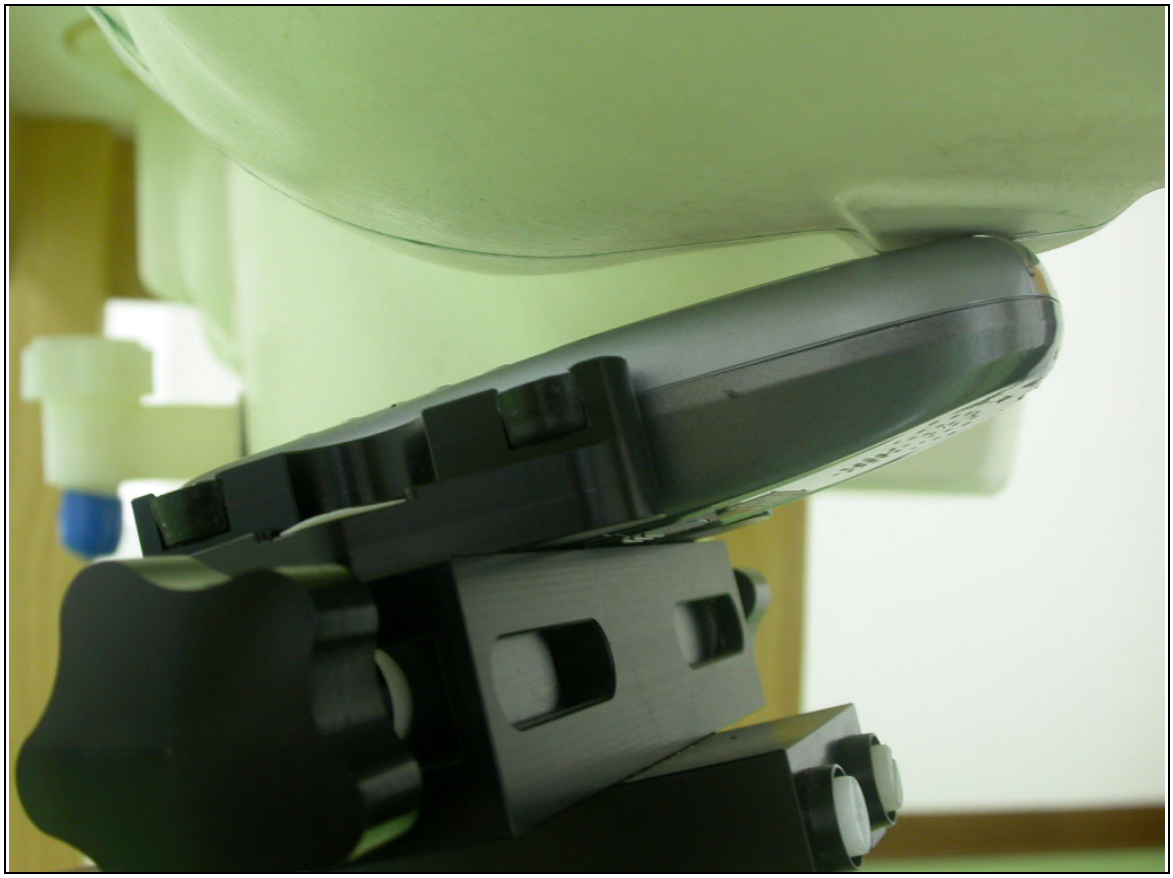
APPENDIX A: TEST CONFIGURATIONS AND TEST DATA

A1: TEST CONFIGURATION

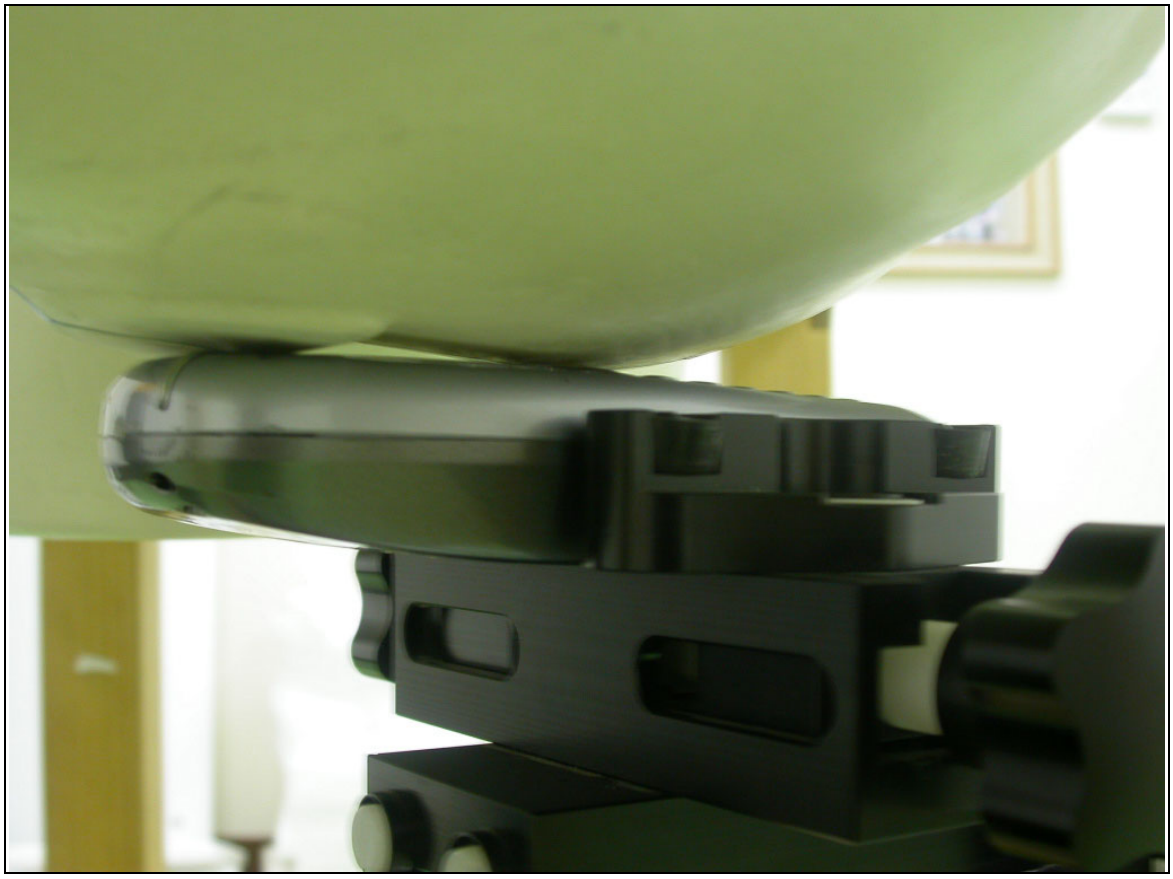
Left Head Cheek Position



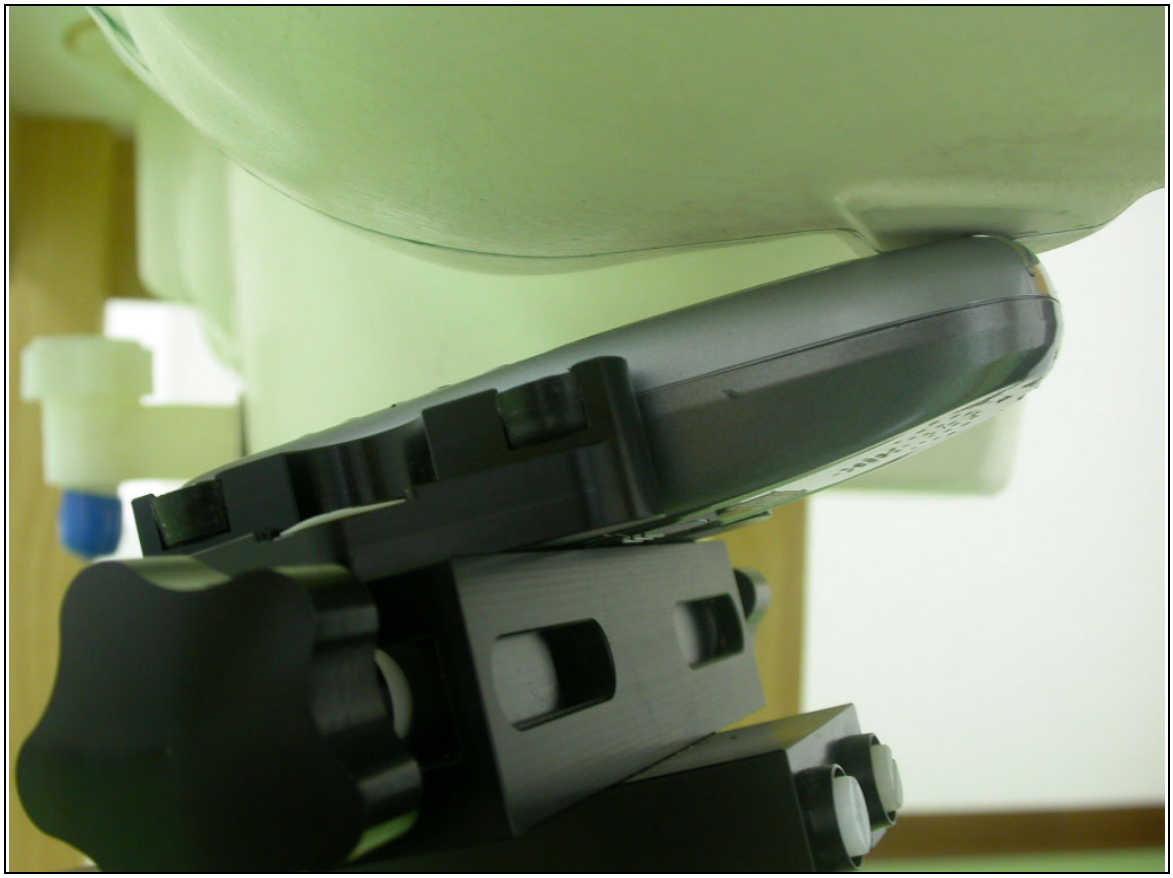
Left Head Tilt Position



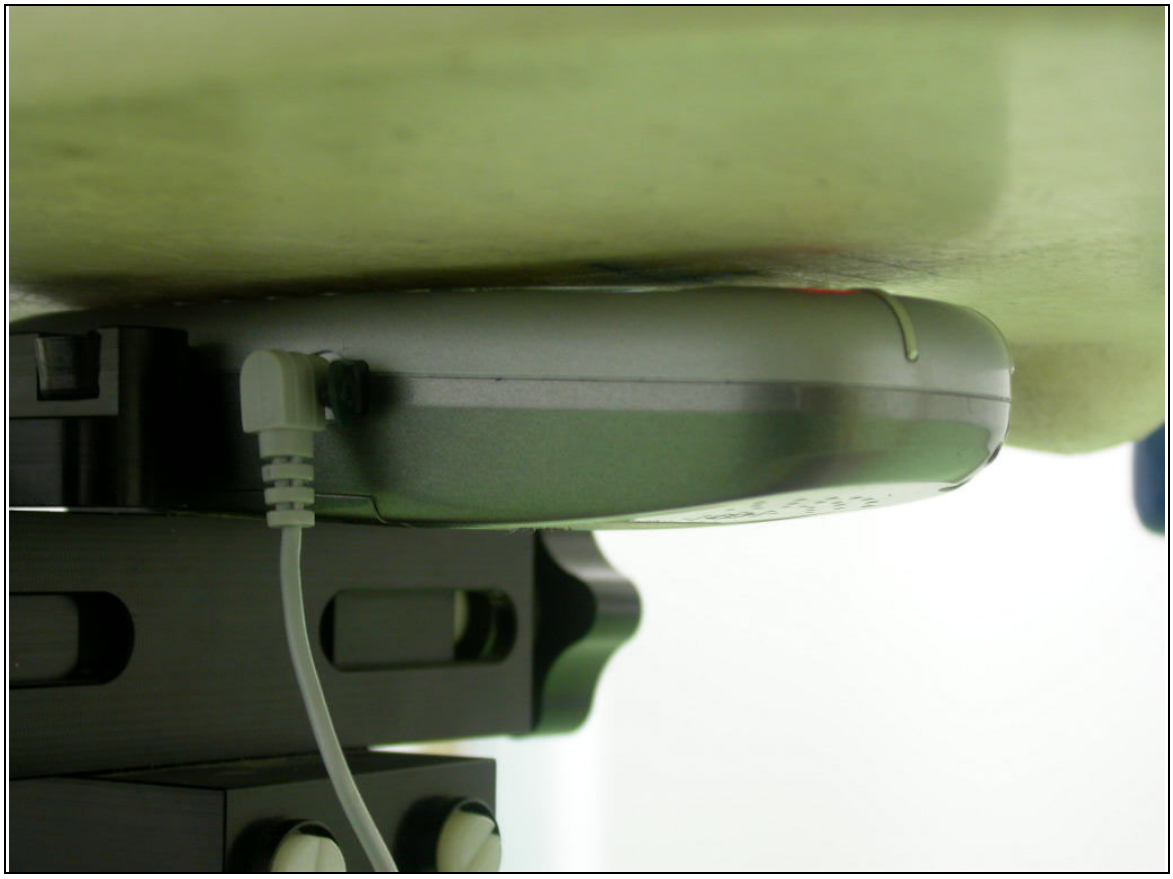
Right Head Cheek Position



Right Head Tilt Position



Body Worn Configuration with earphone



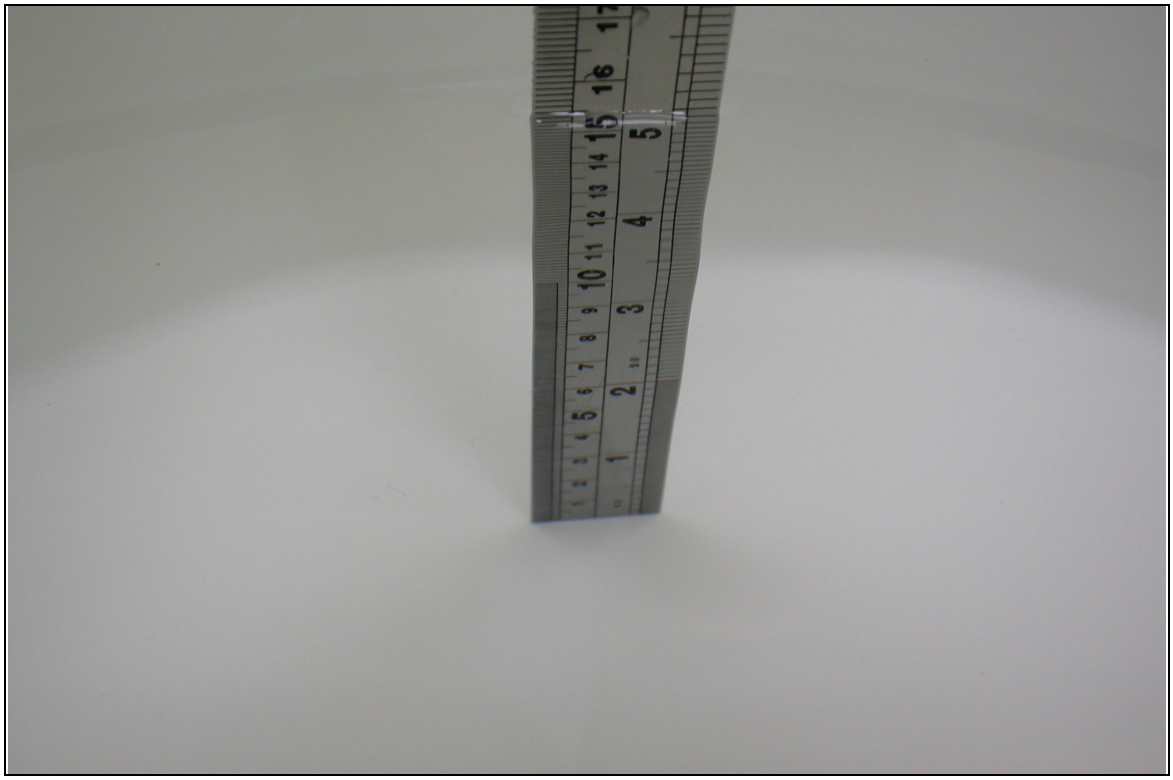
Body Worn Configuration with earphone

Body Worn Configuration with earphone

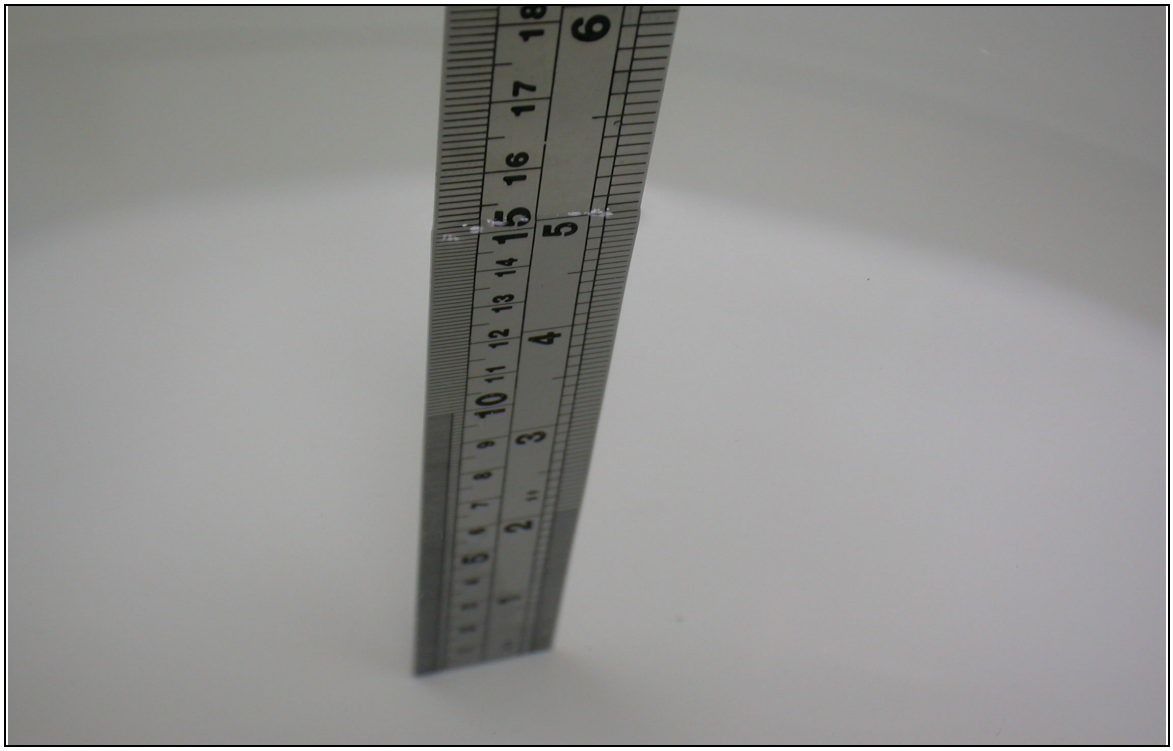
EUT Photo

Liquid Level Photo

HSL 2450MHz D=155mm



MSL 2450MHz D=155mm



Date/Time: 04/13/04 09:51:02

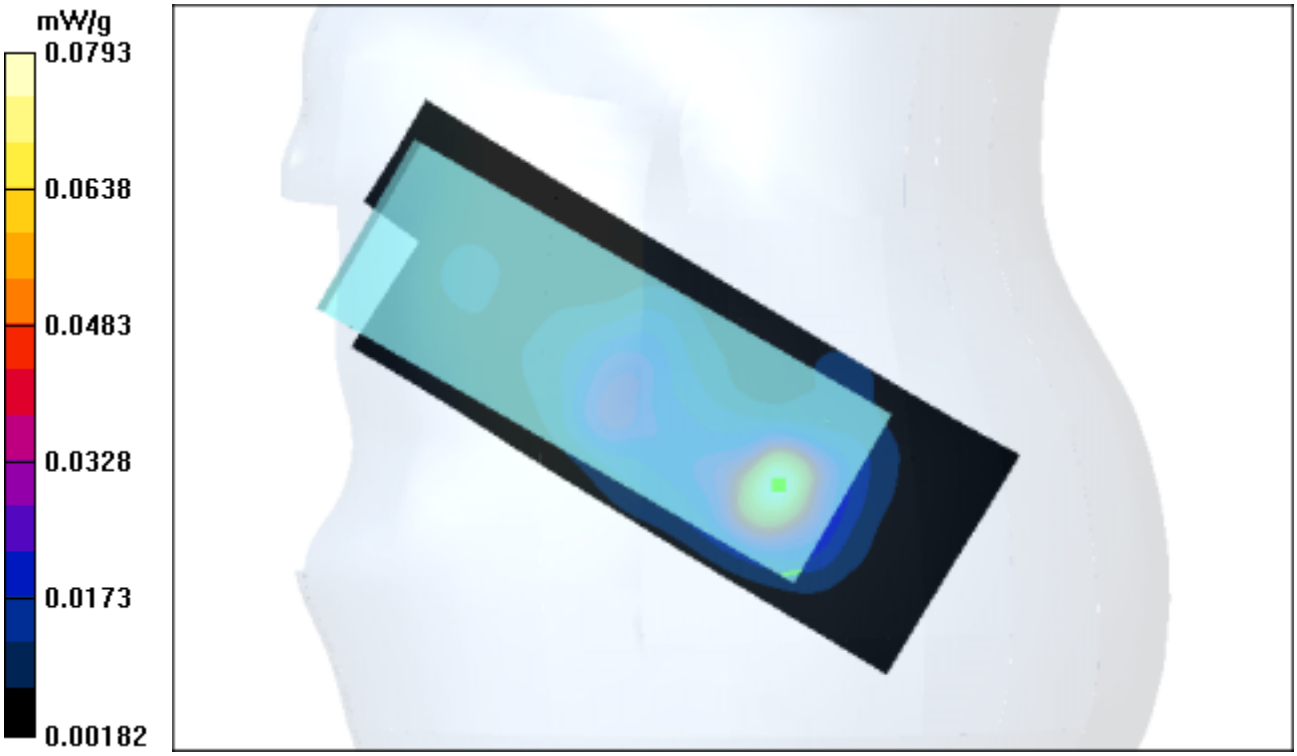
Test Laboratory: Advance Data Technology

DB-6654-RightHeadSide

DUT: VOIP phone
Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1;
Medium: HSL2450 (σ = 1.786 mho/m, ε_r = 39.8297, ρ = 1000 kg/m^3) ; Liquid level : 155mm
Phantom section: Right Section ; DUT test position : Cheek ; Modulation type: CCK
Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees
DASY4 Configuration:
- Probe: ET3DV6 - SN1687; ConvF(4.9, 4.9, 4.9); Calibrated: 11/24/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Touch position - Low/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 6.59 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.079 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.155 W/kg
SAR(1 g) = 0.0671 mW/g; SAR(10 g) = 0.03 mW/g
Reference Value = 6.59 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0793 mW/g



Date/Time: 04/13/04 10:17:25

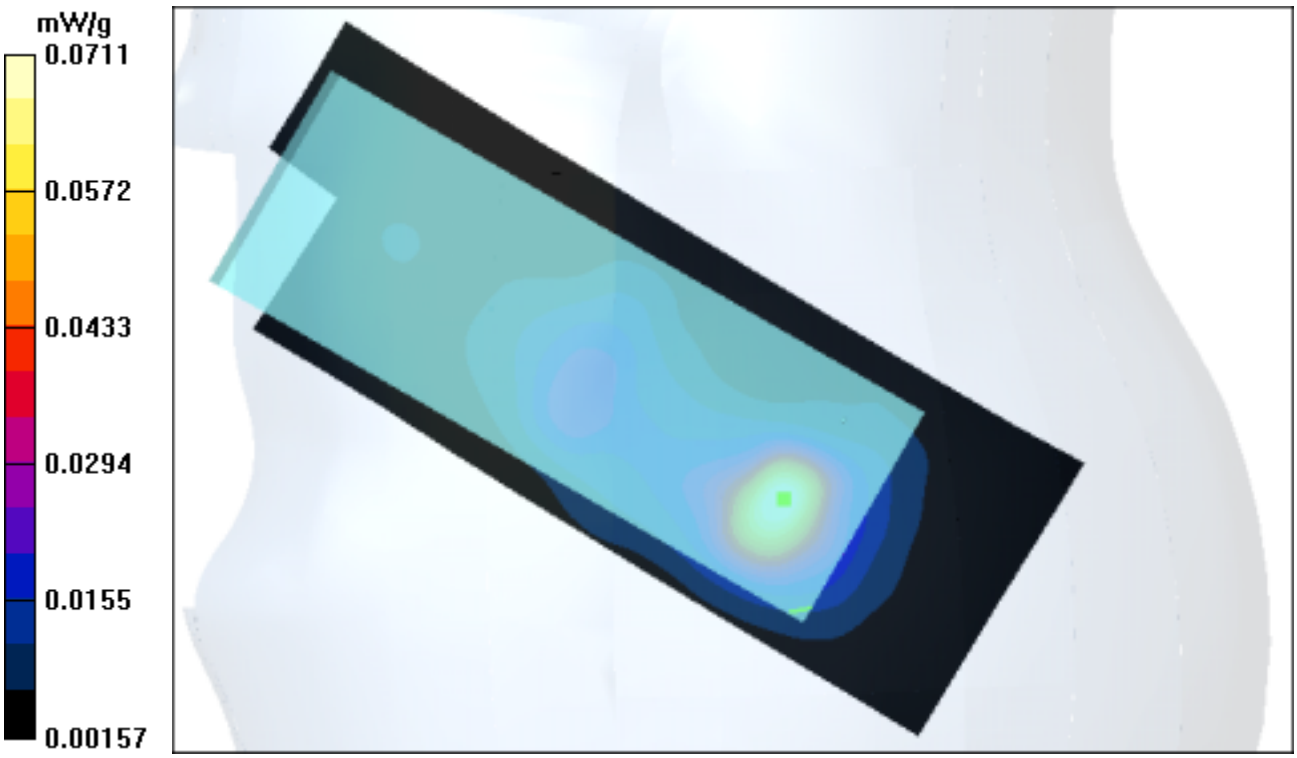
Test Laboratory: Advance Data Technology

DB-6654-RightHeadSide

DUT: VOIP phone
Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1;
Medium: HSL2450 (σ = 1.804 mho/m, ε_r = 39.7924, ρ = 1000 kg/m^3) ; Liquid level : 155mm
Phantom section: Right Section ; DUT test position : Cheek ; Modulation type: CCK
Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees
DASY4 Configuration:
- Probe: ET3DV6 - SN1687; ConvF(4.9, 4.9, 4.9); Calibrated: 11/24/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Touch position - Middle/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 6.21 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0729 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.157 W/kg
SAR(1 g) = 0.0639 mW/g; SAR(10 g) = 0.0279 mW/g
Reference Value = 6.21 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0711 mW/g



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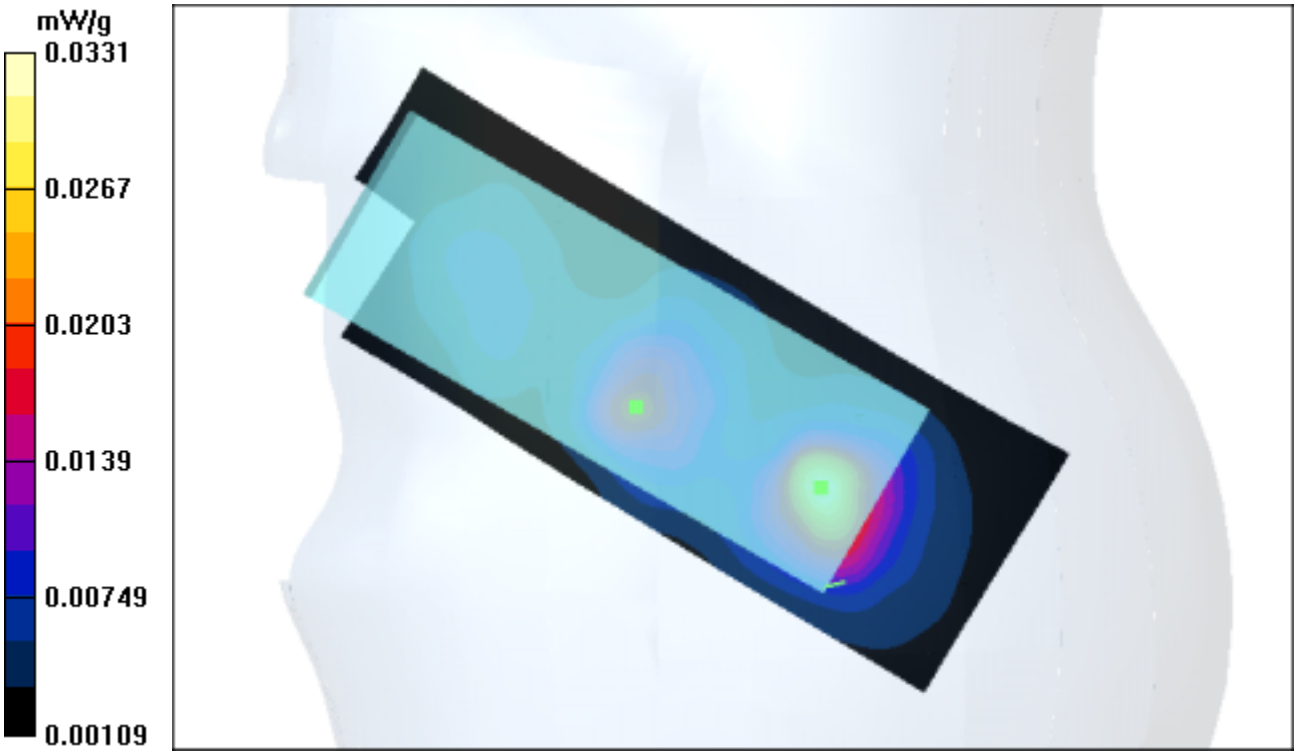
Test Laboratory: Advance Data Technology

DB-6654-RightHeadSide

DUT: VOIP phone
Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1;
Medium: HSL2450 (σ = 1.86 mho/m, ε_r = 39.5462, ρ = 1000 kg/m^3) ; Liquid level : 155mm
Phantom section: Right Section ; DUT test position : Cheek ; Modulation type: CCK
Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees
DASY4 Configuration:
- Probe: ET3DV6 - SN1687; ConvF(4.9, 4.9, 4.9); Calibrated: 11/24/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Touch position - High/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 3.86 V/m
Power Drift = -0.1 dB
Maximum value of SAR = 0.0306 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.0669 W/kg
SAR(1 g) = 0.0286 mW/g; SAR(10 g) = 0.013 mW/g
Reference Value = 3.86 V/m
Power Drift = -0.1 dB
Maximum value of SAR = 0.0331 mW/g



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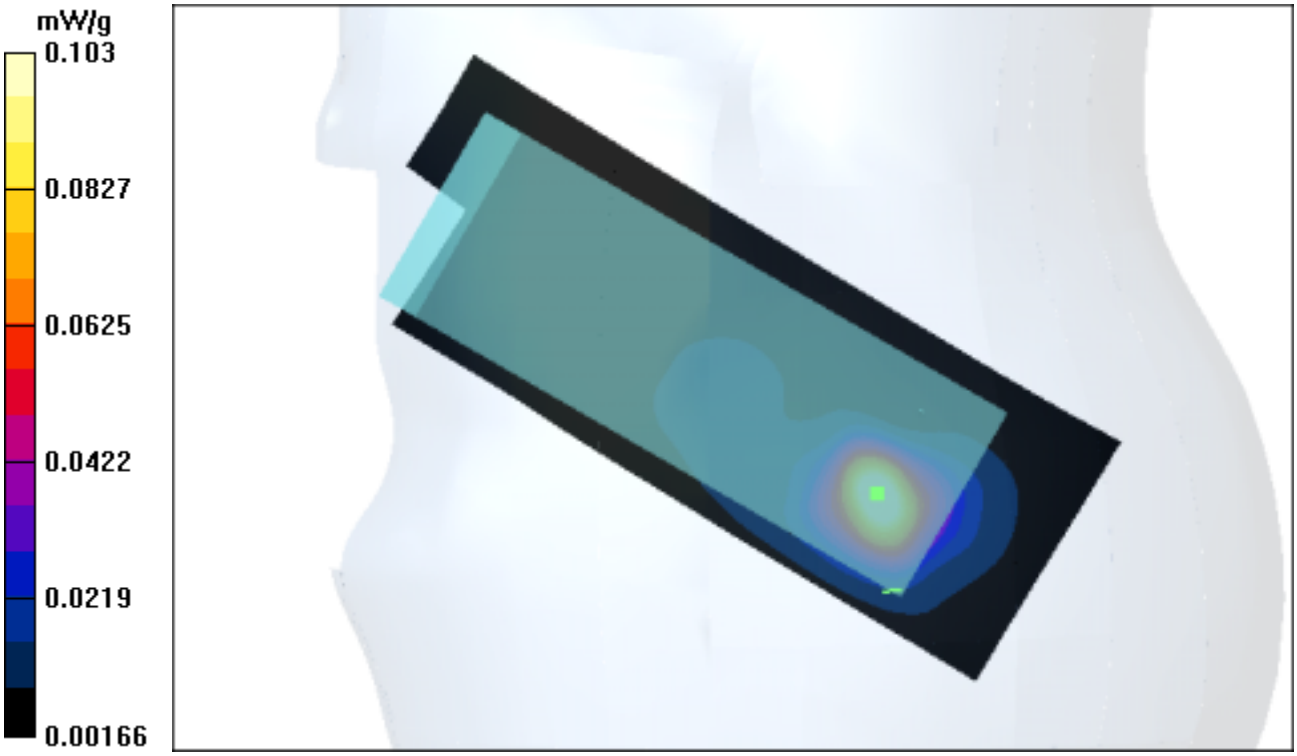
Test Laboratory: Advance Data Technology

DB-6654-RightHeadSide

DUT: VOIP phone
Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1;
Medium: HSL2450 (σ = 1.786 mho/m, ε_r = 39.8297, ρ = 1000 kg/m^3) ; Liquid level : 155mm
Phantom section: Right Section ; DUT test position : Tilt ; Modulation type: CCK
Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees
DASY4 Configuration:
- Probe: ET3DV6 - SN1687; ConvF(4.9, 4.9, 4.9); Calibrated: 11/24/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Tilt position - Low/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 6.06 V/m
Power Drift = -0.09 dB
Maximum value of SAR = 0.124 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.201 W/kg
SAR(1 g) = 0.0885 mW/g; SAR(10 g) = 0.0372 mW/g
Reference Value = 6.06 V/m
Power Drift = -0.09 dB
Maximum value of SAR = 0.103 mW/g



Date/Time: 04/13/04 11:45:08

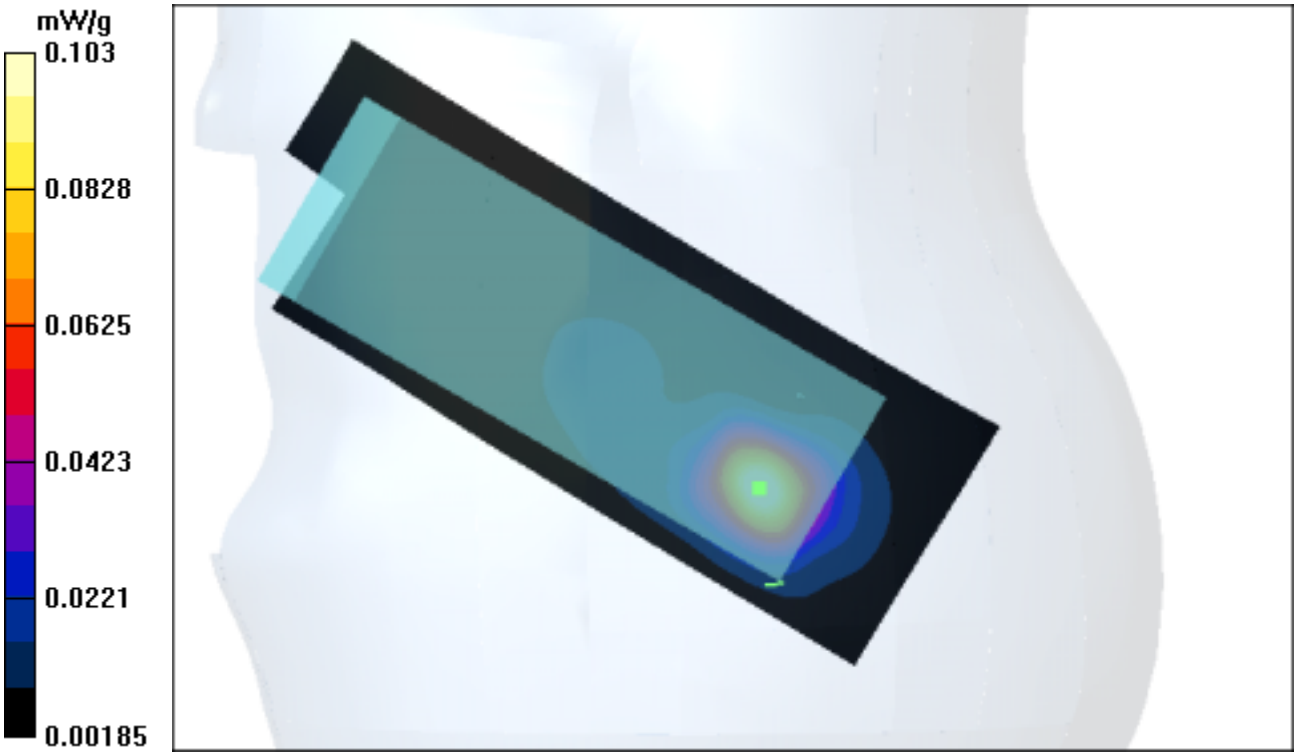
Test Laboratory: Advance Data Technology

DB-6654-RightHeadSide

DUT: VOIP phone
Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1;
Medium: HSL2450 (σ = 1.804 mho/m, ε_r = 39.7924, ρ = 1000 kg/m^3) ; Liquid level : 155mm
Phantom section: Right Section ; DUT test position : Tilt ; Modulation type: CCK
Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees
DASY4 Configuration:
- Probe: ET3DV6 - SN1687; ConvF(4.9, 4.9, 4.9); Calibrated: 11/24/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Tilt position - Middle/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 5.71 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.112 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.195 W/kg
SAR(1 g) = 0.0883 mW/g; SAR(10 g) = 0.0365 mW/g
Reference Value = 5.71 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.103 mW/g



Date/Time: 04/13/04 12:16:31

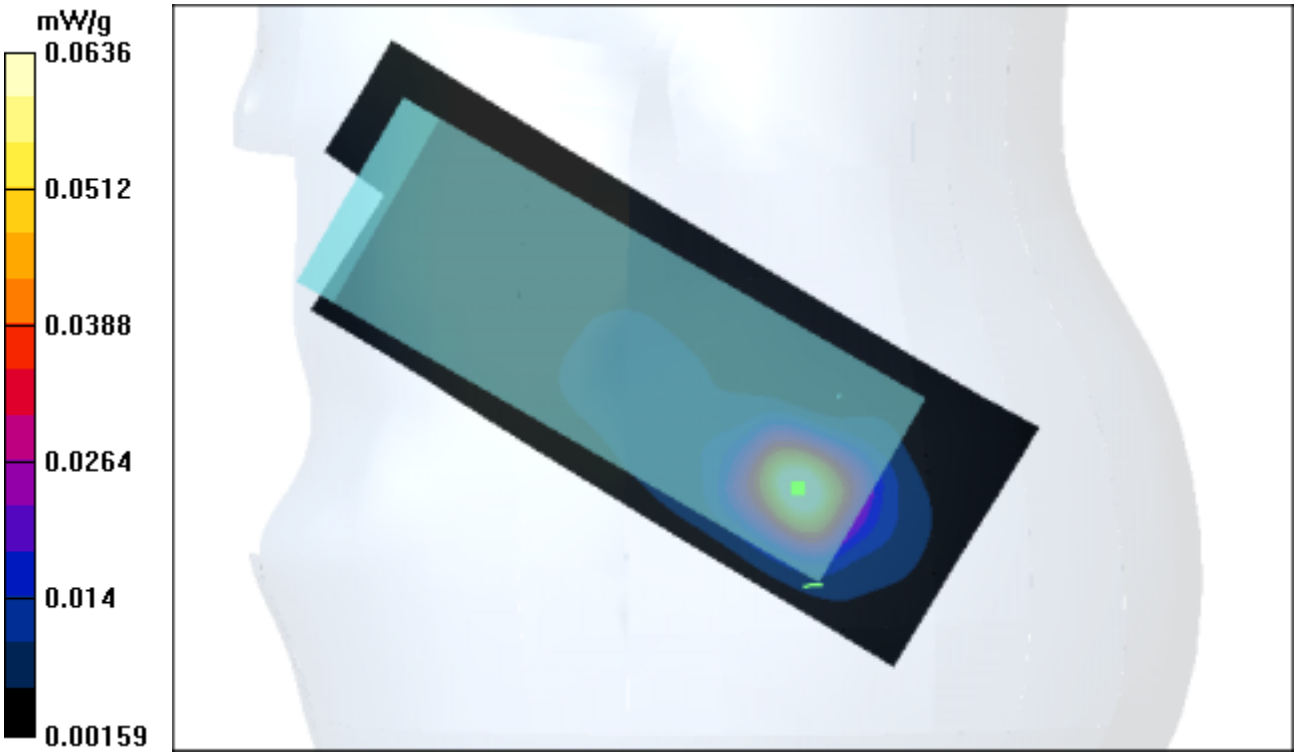
Test Laboratory: Advance Data Technology

DB-6654-RightHeadSide

DUT: VOIP phone
Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1;
Medium: HSL2450 (σ = 1.86 mho/m, ε_r = 39.5462, ρ = 1000 kg/m^3) ; Liquid level : 155mm
Phantom section: Right Section ; DUT test position : Tilt ; Modulation type: CCK
Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees
DASY4 Configuration:
- Probe: ET3DV6 - SN1687; ConvF(4.9, 4.9, 4.9); Calibrated: 11/24/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Tilt position - High/Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 4.31 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0744 mW/g

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.122 W/kg
SAR(1 g) = 0.0546 mW/g; SAR(10 g) = 0.0227 mW/g
Reference Value = 4.31 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0636 mW/g



Date/Time: 04/13/04 12:47:06

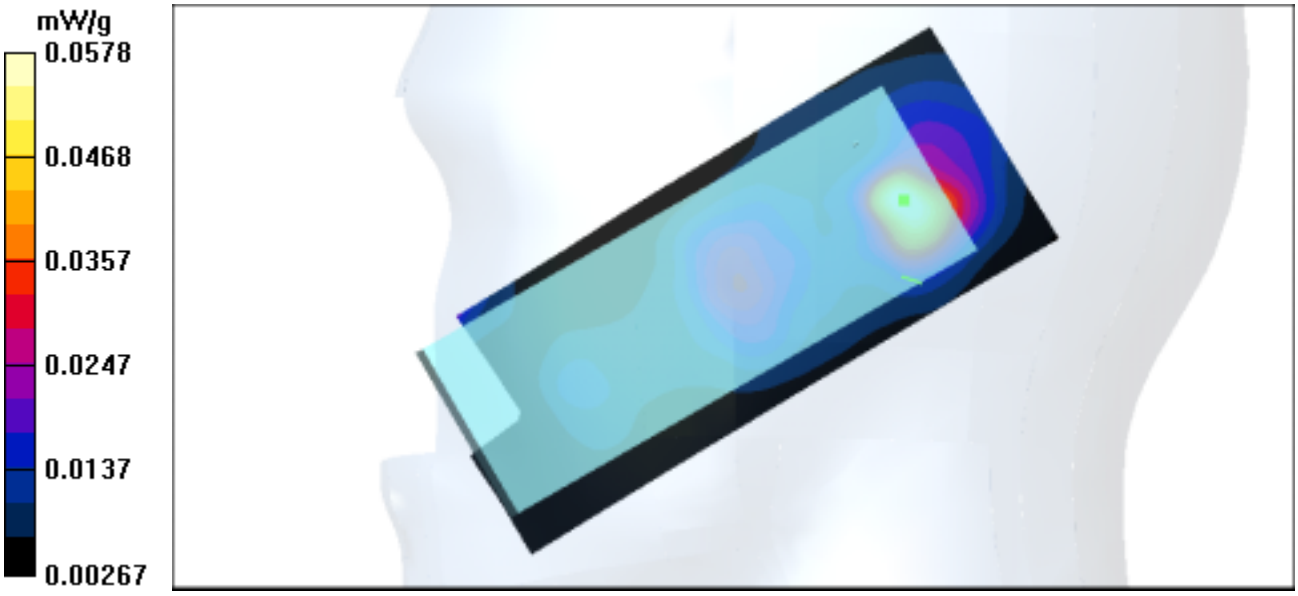
Test Laboratory: Advance Data Technology

DB-6654-LeftHeadSide

DUT: VOIP phone
Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1;
Medium: HSL2450 (σ = 1.786 mho/m, ε_r = 39.8297, ρ = 1000 kg/m^3) ; Liquid level : 155mm
Phantom section: Left Section ; DUT test position : Cheek ; Modulation type: CCK
Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees
DASY4 Configuration:
- Probe: ET3DV6 - SN1687; ConvF(4.9, 4.9, 4.9); Calibrated: 11/24/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Touch position - Low/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 5.62 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0591 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.164 W/kg
SAR(1 g) = 0.0546 mW/g; SAR(10 g) = 0.0239 mW/g
Reference Value = 5.62 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0578 mW/g



Date/Time: 04/13/04 13:14:36

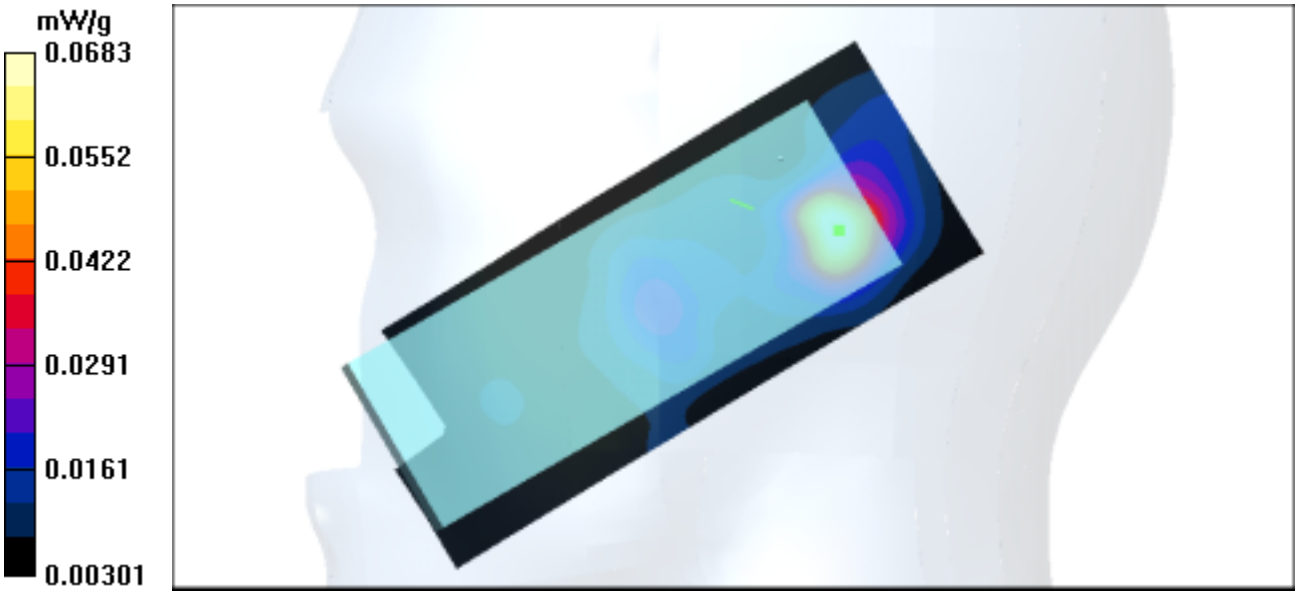
Test Laboratory: Advance Data Technology

DB-6654-LeftHeadSide

DUT: VOIP phone
Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1;
Medium: HSL2450 (σ = 1.804 mho/m, ε_r = 39.7924, ρ = 1000 kg/m^3) ; Liquid level : 155mm
Phantom section: Left Section ; DUT test position : Cheek ; Modulation type: CCK
Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees
DASY4 Configuration:
- Probe: ET3DV6 - SN1687; ConvF(4.9, 4.9, 4.9); Calibrated: 11/24/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Touch position - Middle/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 5.84 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0709 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.156 W/kg
SAR(1 g) = 0.0604 mW/g; SAR(10 g) = 0.0262 mW/g
Reference Value = 5.84 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0683 mW/g

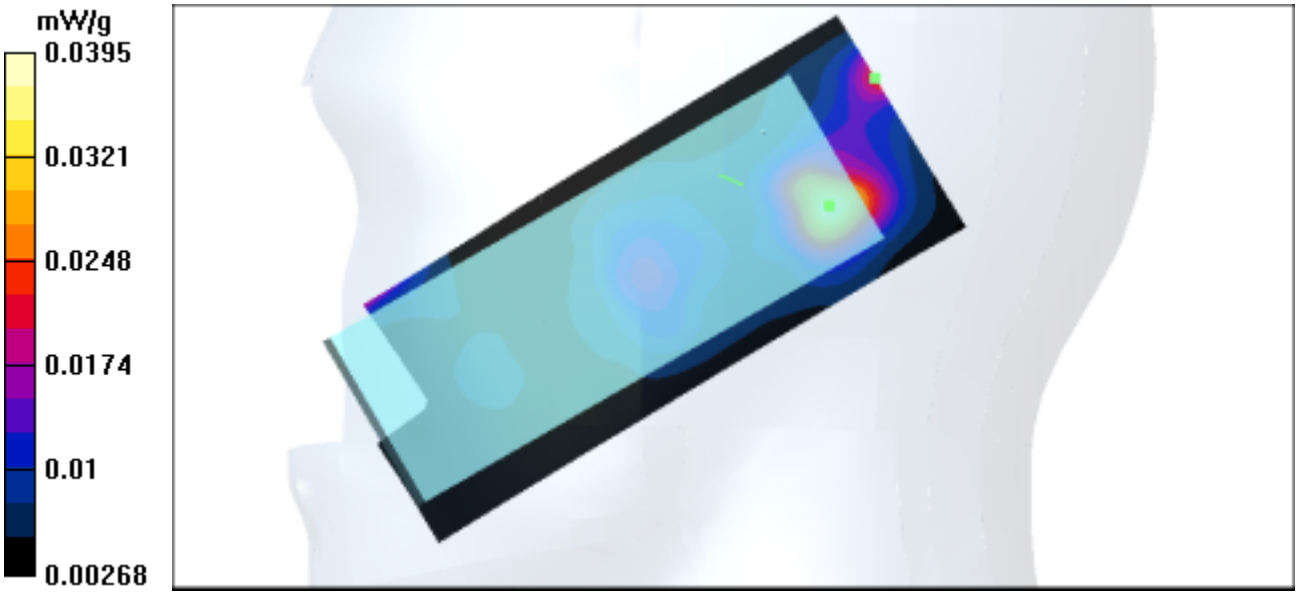


Date/Time: 04/13/04 13:51:38

Test Laboratory: Advance Data Technology

DB-6654-LeftHeadSide

DUT: VOIP phone
Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1;
Medium: HSL2450 (σ = 1.86 mho/m, ε_r = 39.5462, ρ = 1000 kg/m^3) ; Liquid level : 155mm
Phantom section: Left Section ; DUT test position : Cheek ; Modulation type: CCK
Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees
DASY4 Configuration:
- Probe: ET3DV6 - SN1687; ConvF(4.9, 4.9, 4.9); Calibrated: 11/24/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Touch position - High/Area Scan (41x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 3.75 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0369 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 0.0853 W/kg
SAR(1 g) = 0.0364 mW/g; SAR(10 g) = 0.0164 mW/g
Reference Value = 3.75 V/m
Power Drift = -0.2 dB
Maximum value of SAR = 0.0395 mW/g