

APPENDIX F

Plots of The SAR Measurements

SAMSUNG FCC ID : A3LSGHZV40 1900MHz GSM1900 Head SAR

DUT: SGH-ZV40; Serial: FD-045-B

Program Name: SGH-ZV40 GSM1900 Right (Job No. : FD-045)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.4, Tissue Temp(celsius)-22.2; Test Date-28/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.34 V/m; Power Drift = -0.090 dB

Peak SAR (extrapolated) = 1.07 W/kg

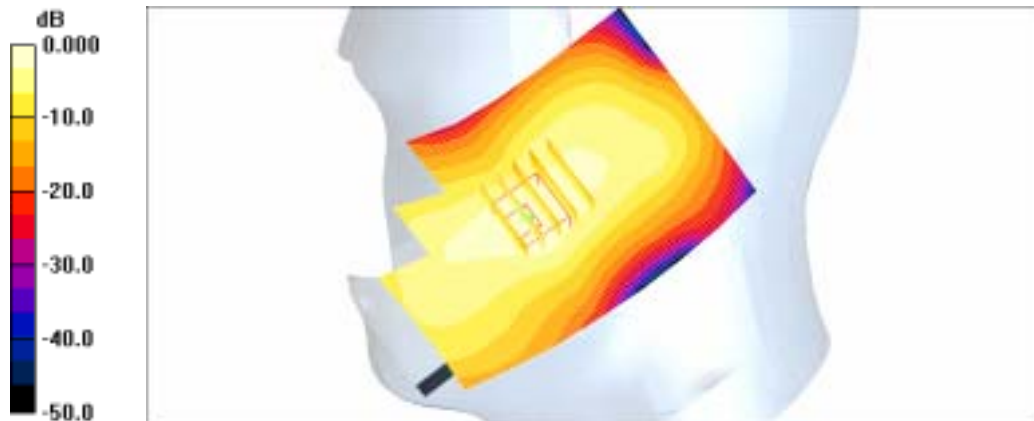
SAR(1 g) = 0.645 mW/g

Maximum value of SAR (measured) = 0.727 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement

grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.649 mW/g



0 dB = 0.649mW/g

SAMSUNG FCC ID : A3LSGHZV40 1900MHz GSM1900 Head SAR

DUT: SGH-ZV40; Serial: FD-045-B

Program Name: SGH-ZV40 GSM1900 Right (Job No. : FD-045)

Procedure Name: Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.4, Tissue Temp(celsius)-22.2; Test Date-28/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.17 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.247 W/kg

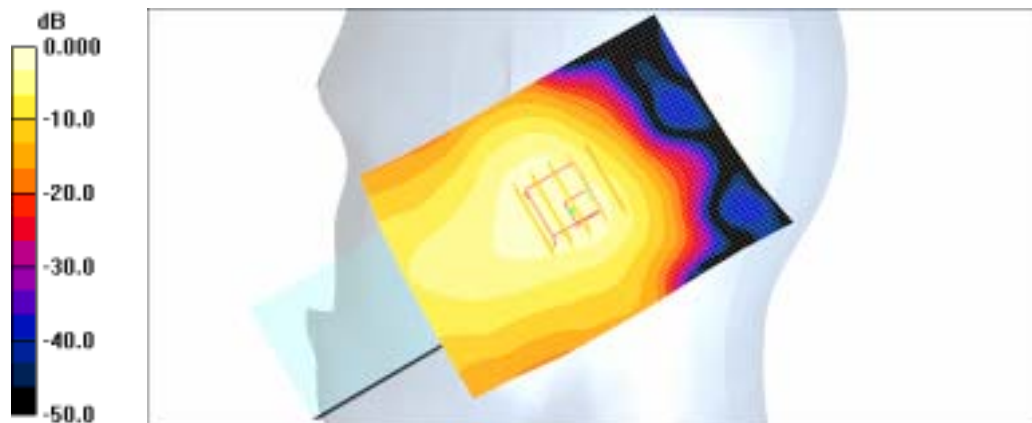
SAR(1 g) = 0.167 mW/g

Maximum value of SAR (measured) = 0.178 mW/g

Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.237 mW/g



0 dB = 0.237mW/g

SAMSUNG FCC ID : A3LSGHZV40 1900MHz GSM1900 Head SAR

DUT: SGH-ZV40; Serial: FD-045-B

Program Name: SGH-ZV40 GSM1900 Left (Job No. : FD-045)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.4, Tissue Temp(celsius)-22.2; Test Date-28/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.745 mW/g

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

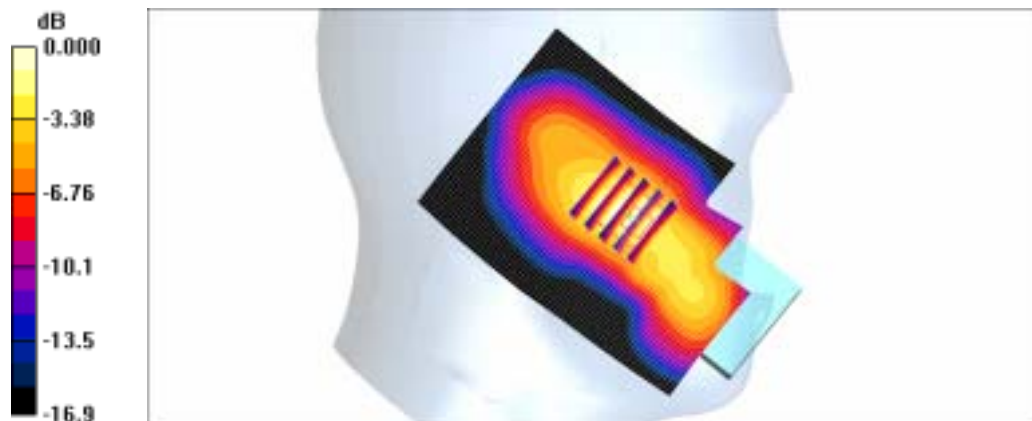
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.55 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.648 mW/g

Maximum value of SAR (measured) = 0.726 mW/g



0 dB = 0.726mW/g

SAMSUNG FCC ID : A3LSGHZV40 1900MHz GSM1900 Head SAR

DUT: SGH-ZV40; Serial: FD-045-B

Program Name: SGH-ZV40 GSM1900 Left (Job No. : FD-045)

Procedure Name: Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.4, Tissue Temp(celsius)-22.2; Test Date-28/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.4 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.320 W/kg

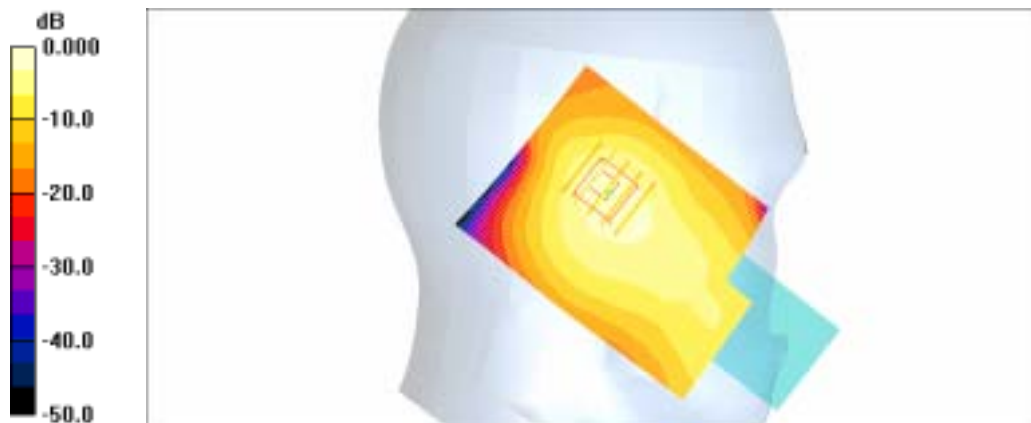
SAR(1 g) = 0.207 mW/g

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

Ear/Tilt, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.267 mW/g



0 dB = 0.267mW/g

SAMSUNG FCC ID : A3LSGHZV40 1900MHz GSM1900 Head SAR

DUT: SGH-ZV40; Serial: FD-045-B

Program Name: SGH-ZV40 GSM1900 Left (Job No. : FD-045)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-22.4, Tissue Temp(celsius)-22.2; Test Date-28/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 1.21 W/kg

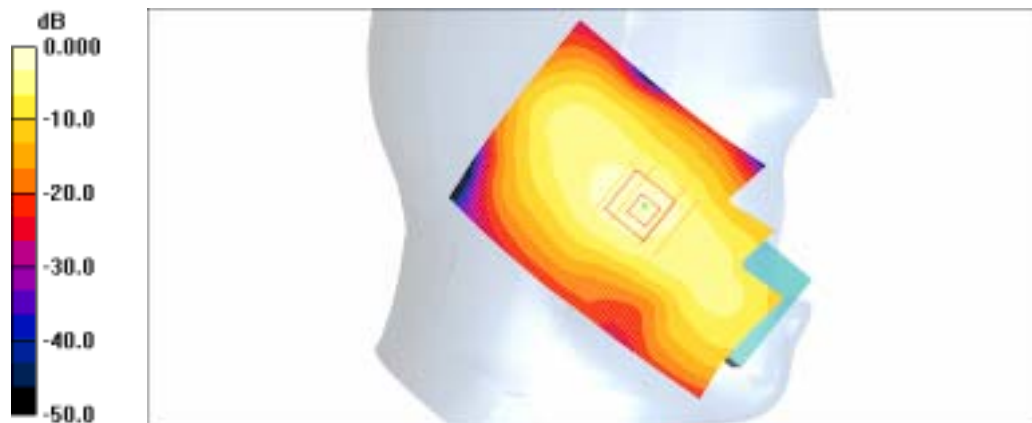
SAR(1 g) = 0.744 mW/g

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

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.868 mW/g



0 dB = 0.868mW/g

SAMSUNG FCC ID : A3LSGHZV40 1900MHz GSM1900 Body SAR

DUT: SGH-ZV40(Body); Serial: FD-045-B

Program Name: SGH-ZV40 GSM1900 Body (Job No. : FD-045)

Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.4, Tissue Temp(celsius)-22.2; Test Date-28/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.48, 7.48, 7.48); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch.810, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.6 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.473 W/kg

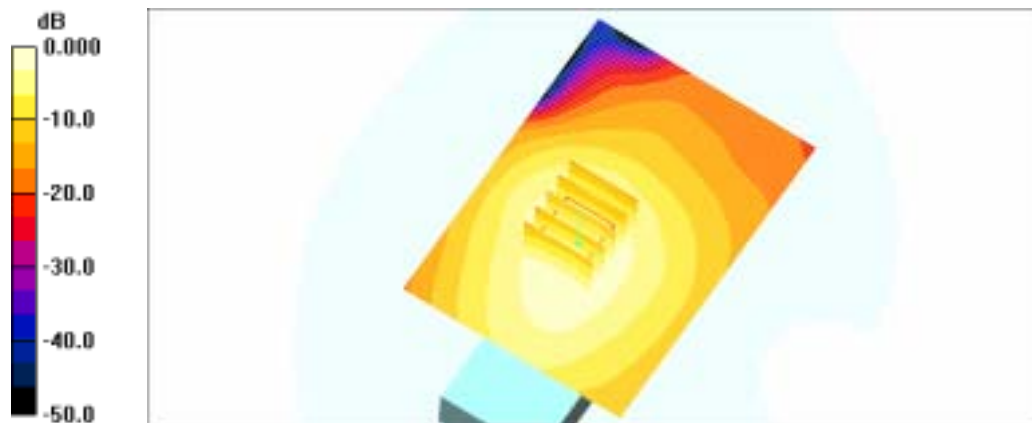
SAR(1 g) = 0.291 mW/g

Maximum value of SAR (measured) = 0.311 mW/g

Body, Ch.810, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

$dx=20$ mm, $dy=20$ mm

Maximum value of SAR (interpolated) = 0.329 mW/g



0 dB = 0.329mW/g

SAMSUNG FCC ID : A3LSGHZV40 1900MHz GSM1900 Body SAR

DUT: SGH-ZV40(Body); Serial: FD-045-B

Program Name: SGH-ZV40 GSM1900 Body (Job No. : FD-045)

Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-22.4, Tissue Temp(celsius)-22.2; Test Date-28/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.48, 7.48, 7.48); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 0.442 W/kg

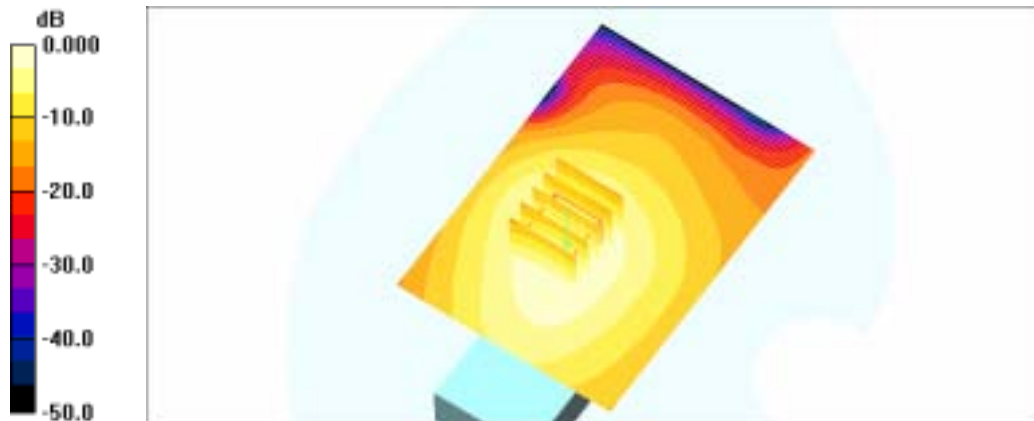
SAR(1 g) = 0.277 mW/g

Maximum value of SAR (measured) = 0.299 mW/g

Body, Ch.810, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.309 mW/g



0 dB = 0.309mW/g

SAMSUNG FCC ID : A3LSGHZV40 1900MHz GSM1900 Head SAR

DUT: SGH-ZV40; Serial: FD-045-B

Program Name: SGH-ZV40 GSM1900 Left (Job No. : FD-045)

Procedure Name: Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-22.4, Tissue Temp(celsius)-22.2; Test Date-28/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ mho/m; $\rho_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(8.04, 8.04, 8.04); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #1; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.744 mW/g

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

Cheek/Touch, Ch.661, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.868 mW/g



SAMSUNG FCC ID : A3LSGHZV40 1900MHz GSM1900 Body SAR

DUT: SGH-ZV40(Body); Serial: FD-045-B

Program Name: SGH-ZV40 GSM1900 Body (Job No. : FD-045)

Procedure Name: Body, Ch.810, Ant.Intenna, Bat.Standard

Procedure Notes: Meas. Ambient Temp(celsius)-22.4, Tissue Temp(celsius)-22.2; Test Date-28/Mar/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(7.48, 7.48, 7.48); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- Phantom: PHANTOM #2; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch.810, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.6 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(1 g) = 0.291 mW/g

Maximum value of SAR (measured) = 0.311 mW/g

Body, Ch.810, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

$dx=20$ mm, $dy=20$ mm

Maximum value of SAR (interpolated) = 0.329 mW/g

