SAMSUNG FCC ID : A3LSGHE830 -- 1900MHz GSM1900 Head SAR

DUT: SGH-E830(DOWN); Serial: FB-040-B

Program Name: SGH-E830 GSM1900 Right (Job No.: FB-040)
Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-20.8; Test Date-12/Jul/2004 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: f = 1850.2 MHz; σ = 1.38 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY4 Configuration:

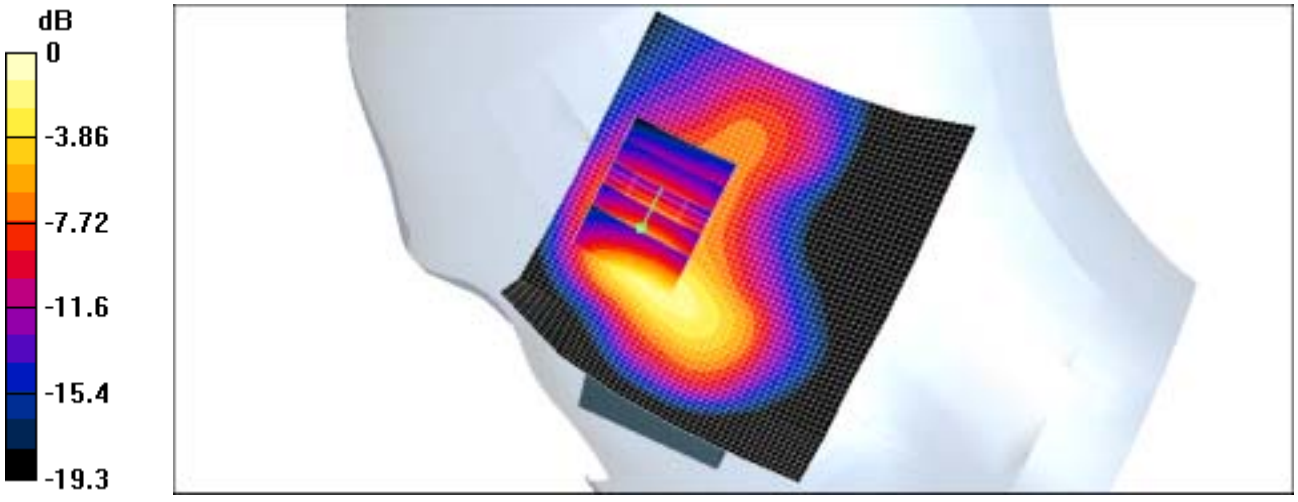
- Probe: ET3DV6 - SN1734; ConvF(5.28, 5.28, 5.28); Calibrated: 2004-02-02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x61x1):

Measurement grid: dx=20mm, dy=20mm
Reference Value = 14.3 V/m; Power Drift = 0.003 dB
Maximum value of SAR (interpolated) = 1.46 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.3 V/m; Power Drift = 0.003 dB
Maximum value of SAR (measured) = 1.55 mW/g
Peak SAR (extrapolated) = 2.55 W/kg
SAR(1 g) = 1.44 mW/g



0 dB = 1.55mW/g

SAMSUNG FCC ID : A3LSGHE830 -- 1900MHz GSM1900 Head SAR

DUT: SGH-E830(DOWN); Serial: FB-040-B

Program Name: SGH-E830 GSM1900 Right (Job No.: FB-040)
Procedure Name: Tilted, Ch.661, Ant.Intenna, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-20.8; Test Date-12/Jul/2004 [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; σ = 1.38 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY4 Configuration:

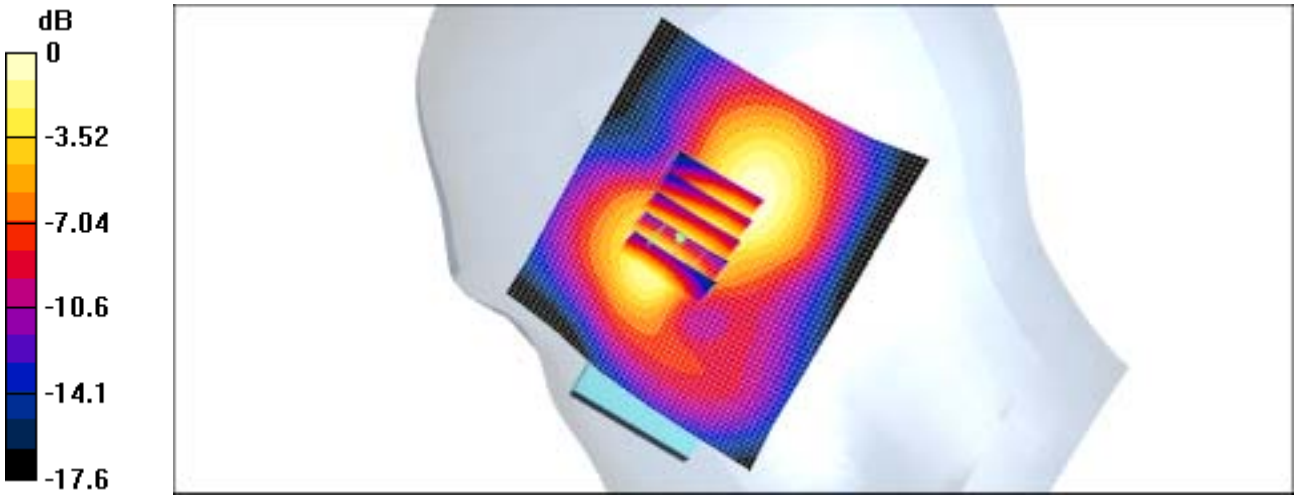
- Probe: ET3DV6 - SN1734; ConvF(5.28, 5.28, 5.28); Calibrated: 2004-02-02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Tilted, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x61x1):

Measurement grid: dx=20mm, dy=20mm
Reference Value = 18.6 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 0.473 mW/g

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

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.6 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 0.475 mW/g
Peak SAR (extrapolated) = 0.723 W/kg
SAR(1 g) = 0.445 mW/g



0 dB = 0.475mW/g

SAMSUNG FCC ID : A3LSGHE830 -- 1900MHz GSM1900 Head SAR

DUT: SGH-E830(DOWN); Serial: FB-040-B

Program Name: SGH-E830 GSM1900 Left (Job No.: FB-040)
Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-20.8; Test Date-12/Jul/2004 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: f = 1850.2 MHz; σ = 1.38 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

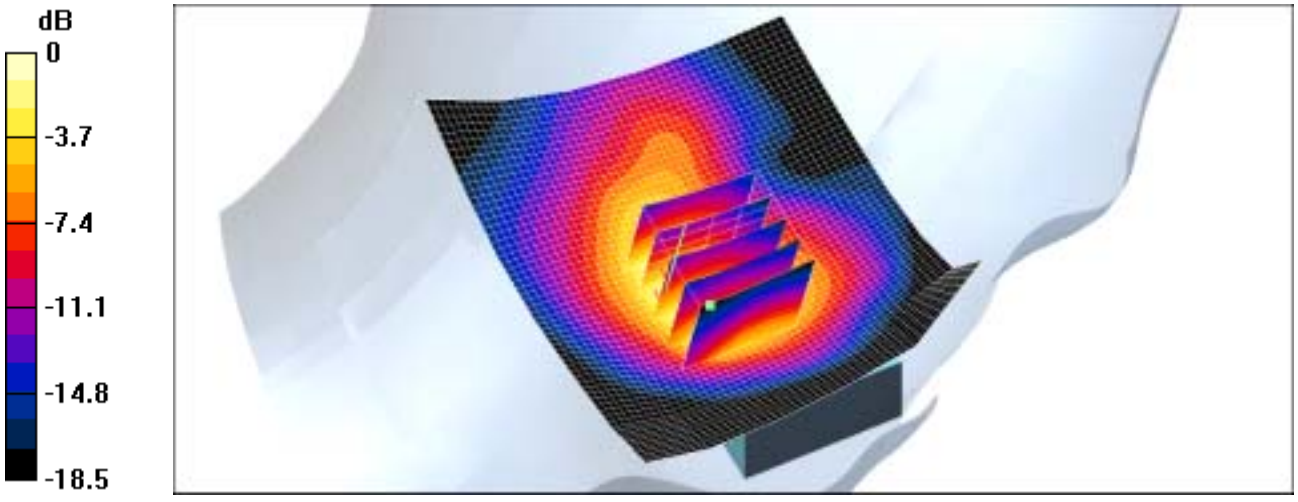
- Probe: ET3DV6 - SN1734; ConvF(5.28, 5.28, 5.28); Calibrated: 2004-02-02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x61x1):

Measurement grid: dx=20mm, dy=20mm
Reference Value = 14.7 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 1.54 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 1.37 mW/g
Peak SAR (extrapolated) = 2.07 W/kg
SAR(1 g) = 1.24 mW/g



0 dB = 1.37mW/g

SAMSUNG FCC ID : A3LSGHE830 -- 1900MHz GSM1900 Head SAR

DUT: SGH-E830(DOWN); Serial: FB-040-B

Program Name: SGH-E830 GSM1900 Left (Job No.: FB-040)
Procedure Name: Tilted, Ch.661, Ant.Intenna, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-20.8; Test Date-12/Jul/2004 [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; σ = 1.38 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

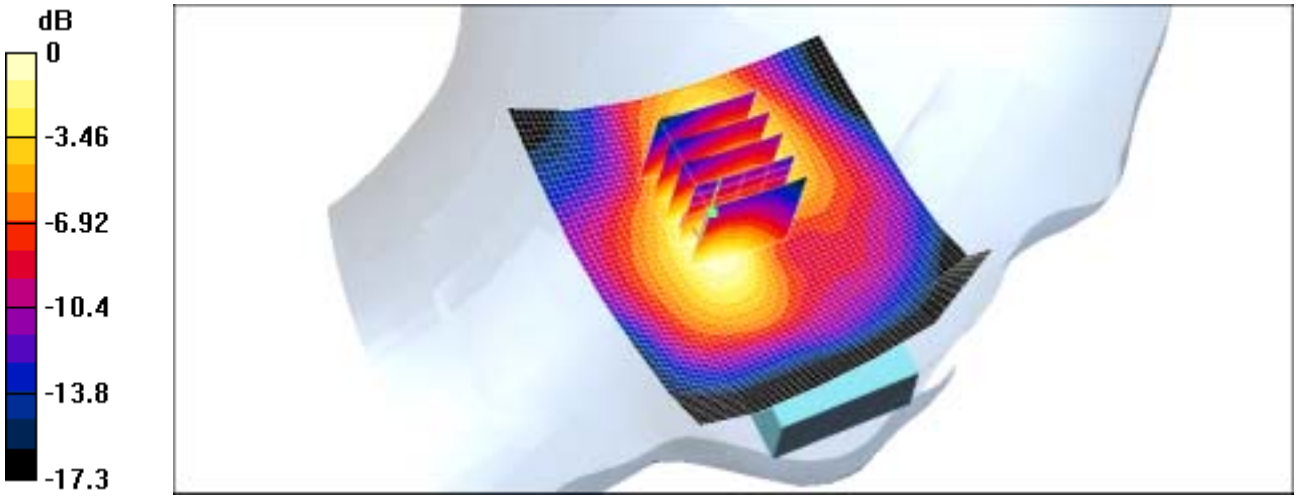
- Probe: ET3DV6 - SN1734; ConvF(5.28, 5.28, 5.28); Calibrated: 2004-02-02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Tilted, Ch.661, Ant.Intenna, Bat.Standard/Area Scan (51x61x1):

Measurement grid: dx=20mm, dy=20mm
Reference Value = 17.9 V/m; Power Drift = -0.008 dB
Maximum value of SAR (interpolated) = 0.433 mW/g

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

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.9 V/m; Power Drift = -0.008 dB
Maximum value of SAR (measured) = 0.447 mW/g
Peak SAR (extrapolated) = 0.646 W/kg
SAR(1 g) = 0.406 mW/g



0 dB = 0.447mW/g

SAMSUNG FCC ID : A3LSGHE830 -- 1900MHz GSM1900 Body SAR

DUT: SGH-E830 (Body); Serial: FB-038-B

Program Name: SGH-E830 GSM1900 Body (Job No.: FB-040)
Procedure Name: Body, Ch.0661, Ant.Intenna, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-13/Jul/2004 [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; σ = 1.54 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

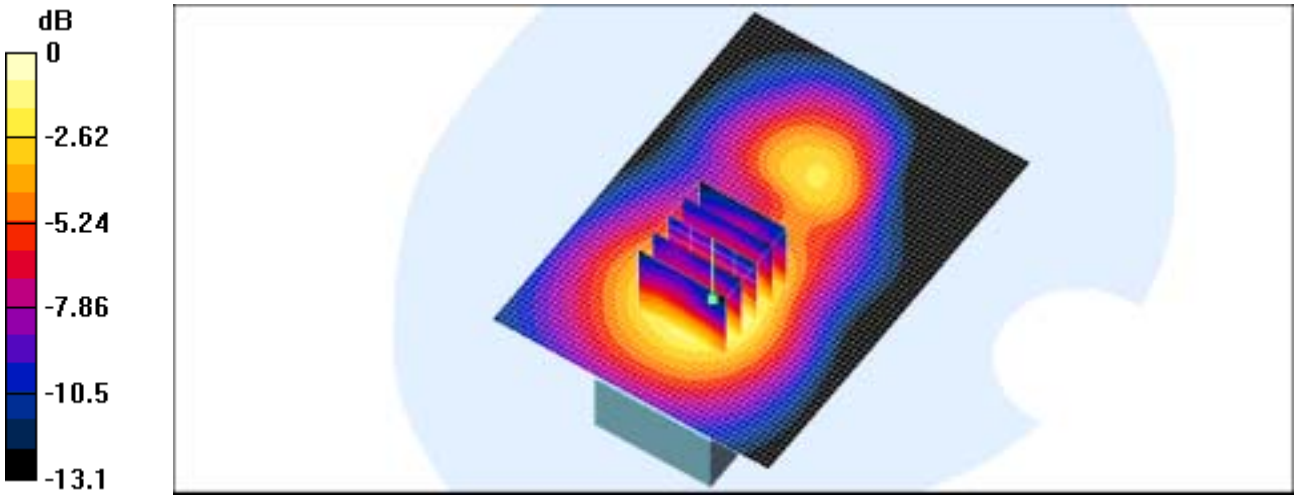
- Probe: ET3DV6 - SN1735; ConvF(4.7, 4.7, 4.7); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2003-11-21
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body, Ch.0661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm
Reference Value = 8.6 V/m; Power Drift = 0.1 dB
Maximum value of SAR (interpolated) = 0.327 mW/g

Body, Ch.0661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.6 V/m; Power Drift = 0.1 dB
Maximum value of SAR (measured) = 0.294 mW/g
Peak SAR (extrapolated) = 0.385 W/kg
SAR(1 g) = 0.273 mW/g



0 dB = 0.294mW/g

SAMSUNG FCC ID : A3LSGHE830 -- 1900MHz GPRS1900 Body SAR

DUT: SGH-E830 (Body); Serial: FB-038-B

Program Name: SGH-E830 GPRS1900 Body (Job No.: FB-040)
Procedure Name: Body, Ch.0661, Ant.Intenna, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-13/Jul/2004 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM1900 GPRS; Frequency: 1880 MHz;Duty Cycle: 1:4.15

Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1735; ConvF(4.7, 4.7, 4.7); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2003-11-21
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body, Ch.0661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):

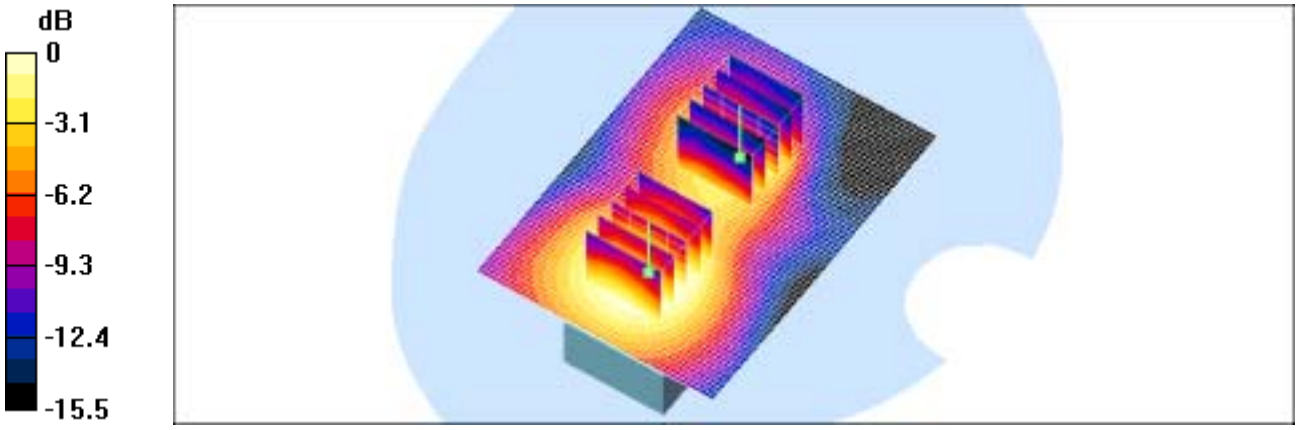
Measurement grid: dx=20mm, dy=20mm
Reference Value = 17 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.682 mW/g

Body, Ch.0661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.604 mW/g
Peak SAR (extrapolated) = 0.802 W/kg
SAR(1 g) = 0.558 mW/g

Body, Ch.0661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 1:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.432 mW/g
Peak SAR (extrapolated) = 0.630 W/kg
SAR(1 g) = 0.392 mW/g



0 dB = 0.432mW/g

SAMSUNG FCC ID : A3LSGHE830 -- 1900MHz GSM1900 Head SAR

DUT: SGH-E830(DOWN); Serial: FB-040-B

Program Name: SGH-E830 GSM1900 Right (Job No.: FB-040)
Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-20.8; Test Date-12/Jul/2004 [OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: f = 1850.2 MHz; σ = 1.38 mho/m; ε_r = 38.7; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY4 Configuration:

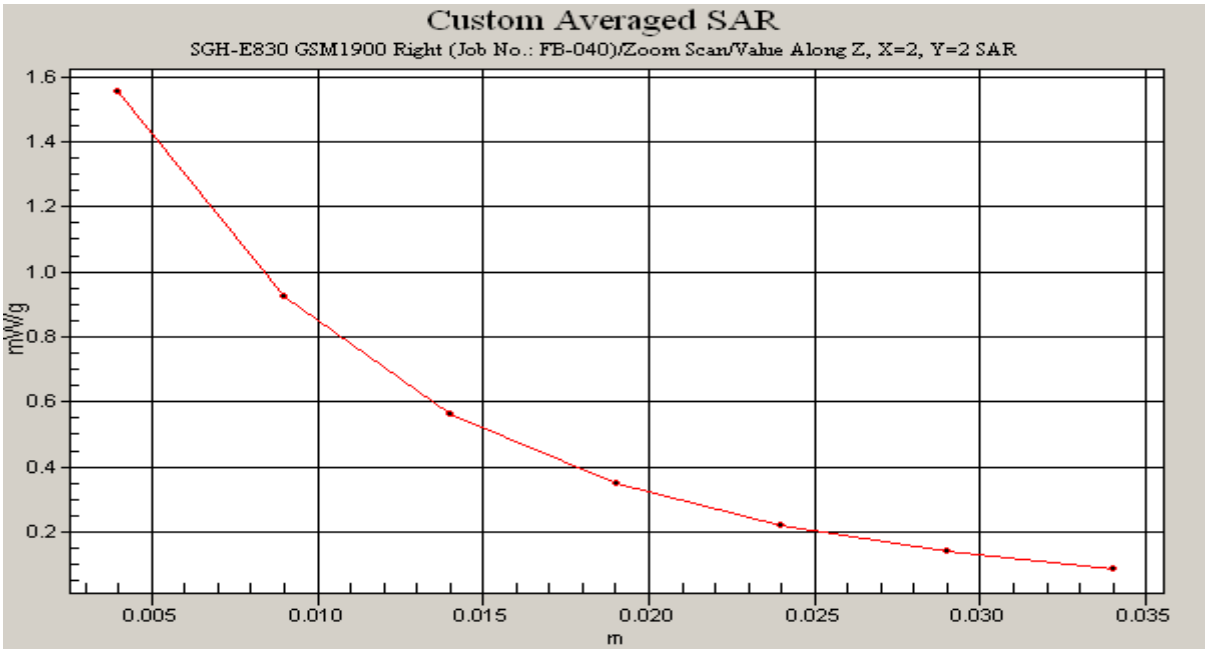
- Probe: ET3DV6 - SN1734; ConvF(5.28, 5.28, 5.28); Calibrated: 2004-02-02
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2003-12-16
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Area Scan (51x61x1):

Measurement grid: dx=20mm, dy=20mm
Reference Value = 14.3 V/m; Power Drift = 0.003 dB
Maximum value of SAR (interpolated) = 1.46 mW/g

Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.3 V/m; Power Drift = 0.003 dB
Maximum value of SAR (measured) = 1.55 mW/g
Peak SAR (extrapolated) = 2.55 W/kg
SAR(1 g) = 1.44 mW/g



SAMSUNG FCC ID : A3LSGHE830 -- 1900MHz GPRS1900 Body SAR

DUT: SGH-E830 (Body); Serial: FB-038-B

Program Name: SGH-E830 GPRS1900 Body (Job No.: FB-040)
Procedure Name: Body, Ch.0661, Ant.Intenna, Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-13/Jul/2004 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM1900 GPRS; Frequency: 1880 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1880 MHz; σ = 1.54 mho/m; ε_r = 50.9; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1735; ConvF(4.7, 4.7, 4.7); Calibrated: 2003-11-20
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2003-11-21
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Body, Ch.0661, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):

Measurement grid: dx=20mm, dy=20mm
Reference Value = 17 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.682 mW/g

Body, Ch.0661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.604 mW/g
Peak SAR (extrapolated) = 0.802 W/kg
SAR(1 g) = 0.558 mW/g

Body, Ch.0661, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 1:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.432 mW/g
Peak SAR (extrapolated) = 0.630 W/kg
SAR(1 g) = 0.392 mW/g