

SAMSUNG FCC ID : A3LSGHE820N -- 1900MHz GSM1900 Head SAR

DUT: SGH-E820N(Down); Serial: FB-072-C

Program Name: SGH-E820N GSM1900 Right (Slide.Down, Job No.: FB-072)

Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-28/Dec/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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2004-08-23
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Cheek/Touch, Ch.512, Ant.Fixed Bat.Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.216 mW/g

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

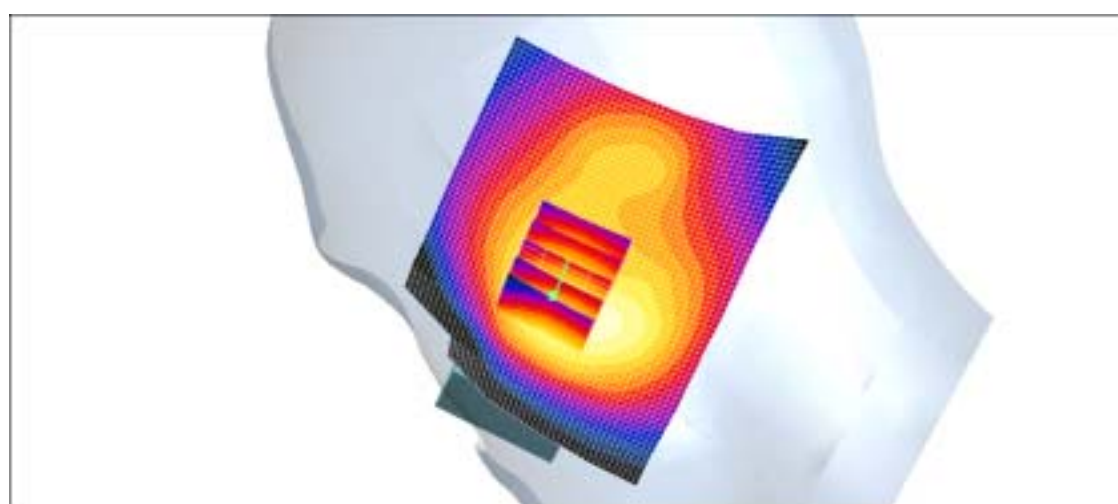
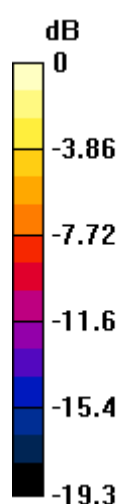
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.9 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.196 mW/g

Maximum value of SAR (measured) = 0.211 mW/g



0 dB = 0.211mW/g

SAMSUNG FCC ID : A3LSGHE820N -- 1900MHz GSM1900 Head SAR

DUT: SGH-E820N(Down); Serial: FB-072-C

Program Name: SGH-E820N GSM1900 Right (Slide.Down, Job No.: FB-072)

Procedure Name: Tilted, Ch.661, Ant.Intenna Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-28/Dec/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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2004-08-23
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.114 mW/g

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

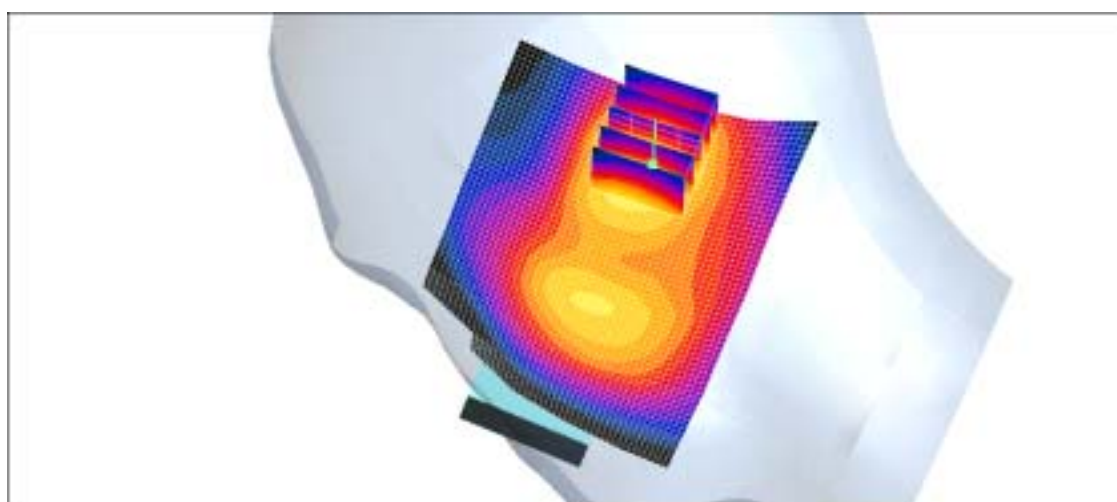
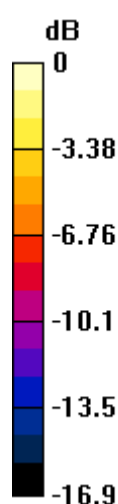
dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.34 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 0.188 W/kg

SAR(1 g) = 0.121 mW/g

Maximum value of SAR (measured) = 0.128 mW/g



0 dB = 0.128mW/g

SAMSUNG FCC ID : A3LSGHE820N -- 1900MHz GSM1900 Head SAR

DUT: SGH-E820N(Down); Serial: FB-072-C

Program Name: SGH-E820N GSM1900 Left (Slide.Down, Job No.: FB-072)

Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-28/Dec/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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2004-08-23
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Cheek/Touch, Ch.512, Ant.Intenna Bat.Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.234 mW/g

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

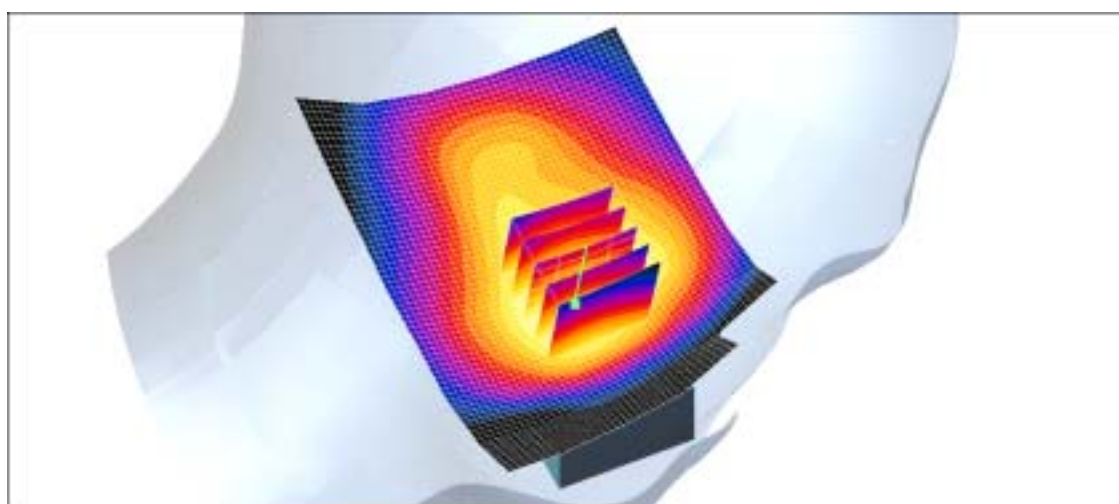
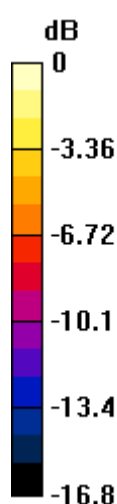
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.16 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 0.250 W/kg

SAR(1 g) = 0.202 mW/g

Maximum value of SAR (measured) = 0.218 mW/g



0 dB = 0.218mW/g

SAMSUNG FCC ID : A3LSGHE820N -- 1900MHz GSM1900 Head SAR

DUT: SGH-E820N(Down); Serial: FB-072-C

Program Name: SGH-E820N GSM1900 Left (Slide.Down, Job No.: FB-072)

Procedure Name: Tilted, Ch.661, Ant.Intenna Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-28/Dec/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; $\sigma = 1.4$ mho/m; $\epsilon_r = 39.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2004-08-23
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.132 mW/g

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

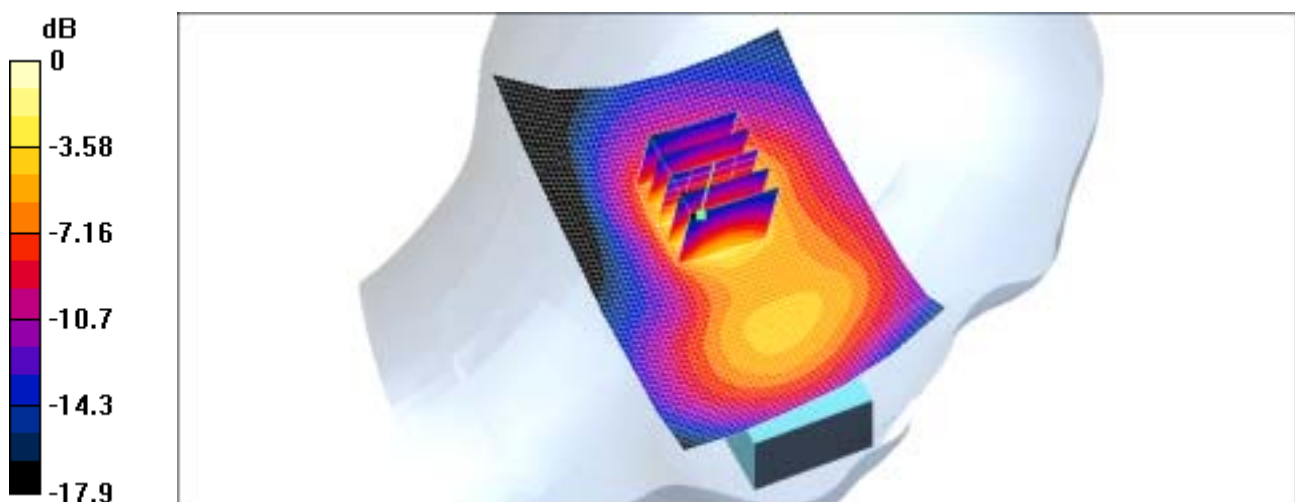
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.44 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.206 W/kg

SAR(1 g) = 0.133 mW/g

Maximum value of SAR (measured) = 0.152 mW/g



0 dB = 0.152mW/g

SAMSUNG FCC ID : A3LSGHE820N -- 1900MHz GSM1900 Body SAR

DUT: SGH-E820N(Down); Serial: FB-072-C

Program Name: SGH-E820N GPRS1900 Body (Job No.: FB-072)

Procedure Name: Body, Ch. 512, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-20.9; Test Date-28/Dec/2004 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(4.51, 4.51, 4.51); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2004-08-23
- Phantom: SAM 1800/1900MHz; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Body, Ch. 512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.497 mW/g

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

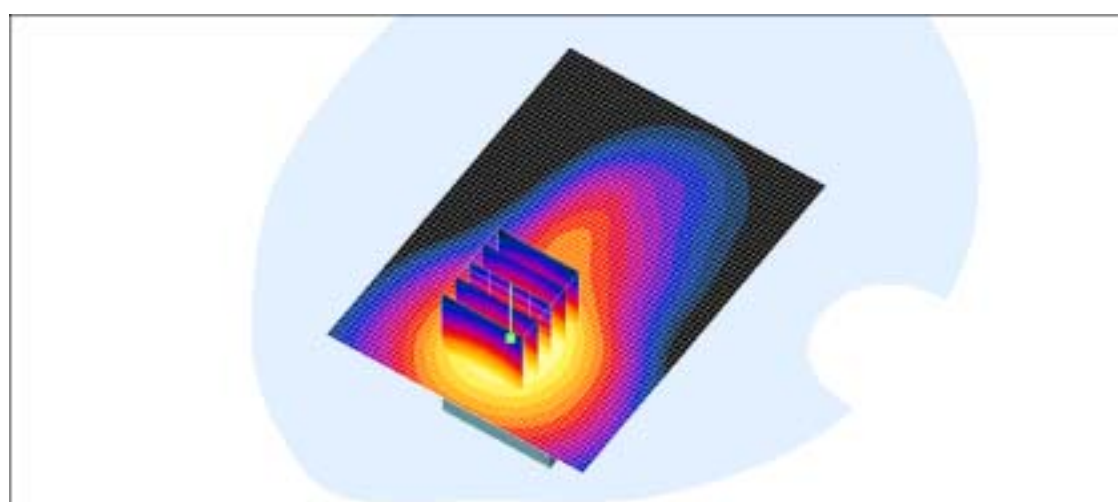
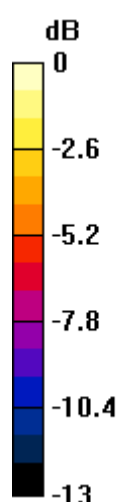
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.36 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.581 W/kg

SAR(1 g) = 0.433 mW/g

Maximum value of SAR (measured) = 0.470 mW/g



0 dB = 0.470mW/g

SAMSUNG FCC ID : A3LSGHE820N -- 1900MHz GSM1900 Face SAR

DUT: SGH-E820P(Down); Serial: FB-072-C

Program Name: SGH-E820P GSM1900 Flat (Slide.Down, Job No.: FB-072)

Procedure Name: PTT, Ch.512, Ant.Intenna Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-28/Dec/2004 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM1900 PTT; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2004-08-23
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

PTT, Ch.512, Ant.Intenna Bat.Standard/Area Scan (51x71x1): Measurement grid:

$dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.083 mW/g

PTT, Ch.512, Ant.Intenna Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

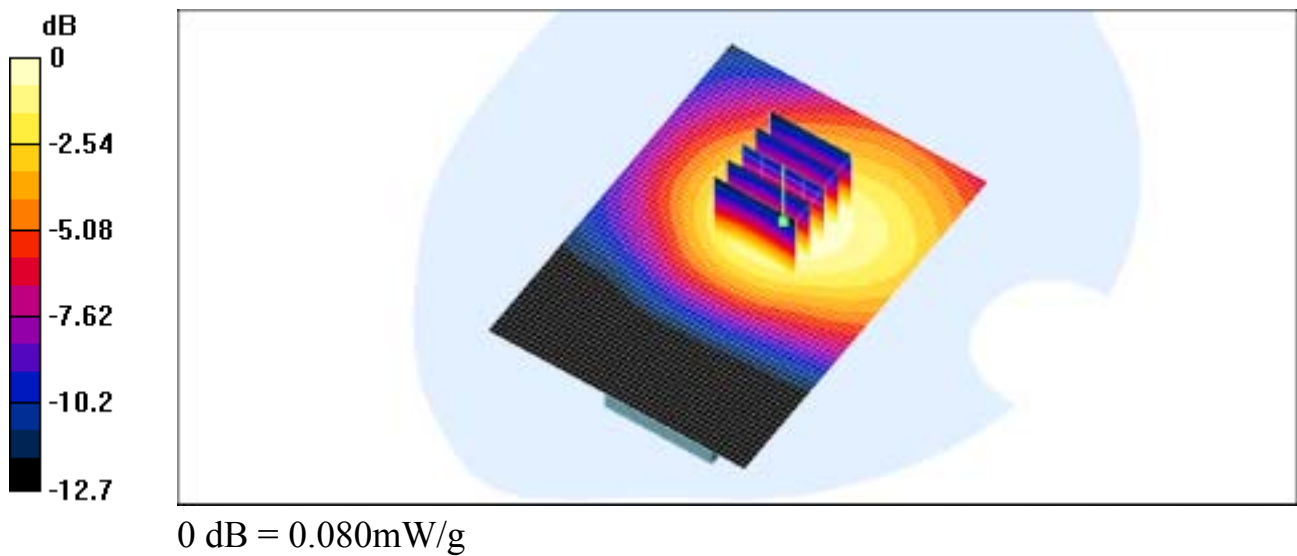
$dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.74 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.074 mW/g

Maximum value of SAR (measured) = 0.080 mW/g



SAMSUNG FCC ID : A3LSGHE820N -- 1900MHz GSM1900 Head SAR

DUT: SGH-E820N(Down); Serial: FB-072-C
Program Name: SGH-E820N GSM1900 Left (Slide.Down, Job No.: FB-072)
Procedure Name: Cheek/Touch, Ch.512, Ant.Intenna Bat.Standard
Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-28/Dec/2004 [OET Bulletin 65-Supplement C, July 2001]

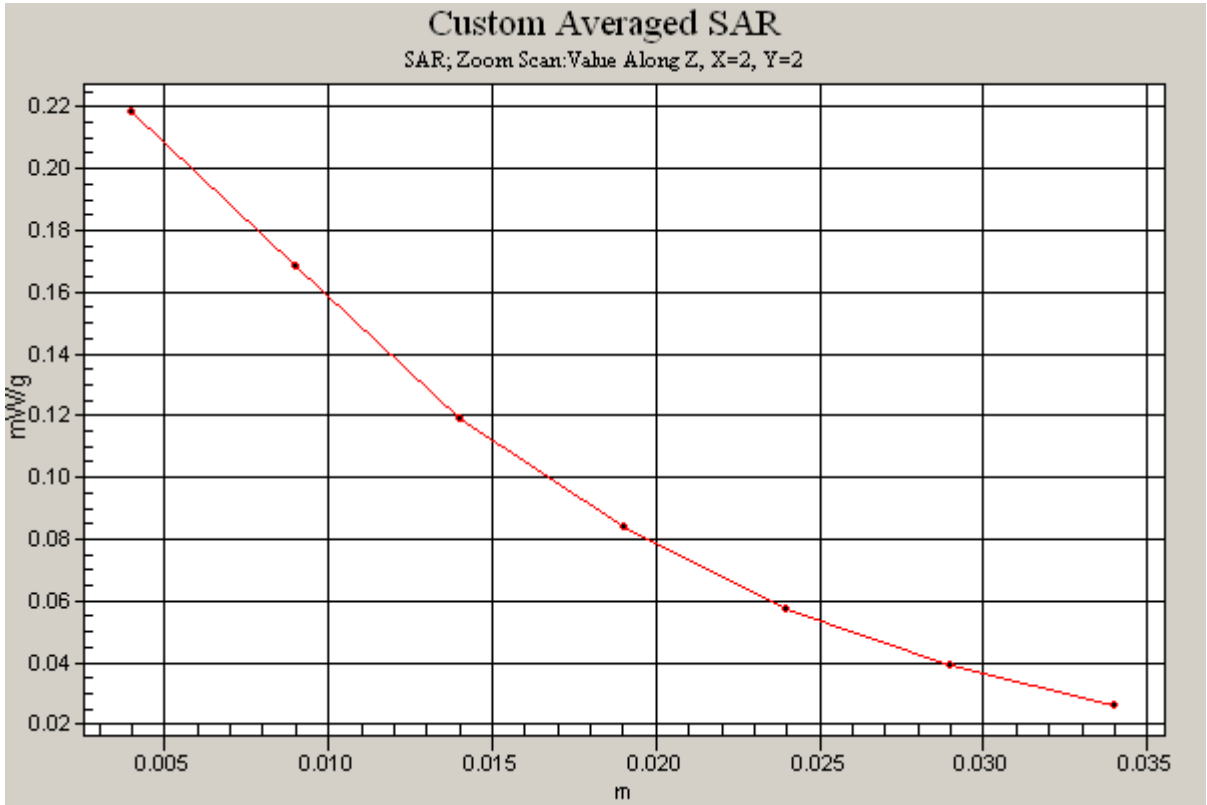
Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2004-08-23
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Cheek/Touch, Ch.512, Ant.Intenna Bat.Standard/Area Scan (51x71x1): Measurement
grid: $dx=20\text{mm}$, $dy=20\text{mm}$
Maximum value of SAR (interpolated) = 0.234 mW/g

Cheek/Touch, Ch.512, Ant.Intenna Bat.Standard/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 9.16 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.250 W/kg
SAR(1 g) = 0.202 mW/g
Maximum value of SAR (measured) = 0.218 mW/g



SAMSUNG FCC ID : A3LSGHE820N -- 1900MHz GSM1900 Body SAR

DUT: SGH-E820N(Down); Serial: FB-072-C

Program Name: SGH-E820N GPRS1900 Body (Job No.: FB-072)

Procedure Name: Body, Ch. 512, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-20.9; Test Date-28/Dec/2004 [OET Bulletin 65-Supplement C, July 2001]

Communication System: Body GPRS ; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(4.51, 4.51, 4.51); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2004-08-23
- Phantom: SAM 1800/1900MHz; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

Body, Ch. 512, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.497 mW/g

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

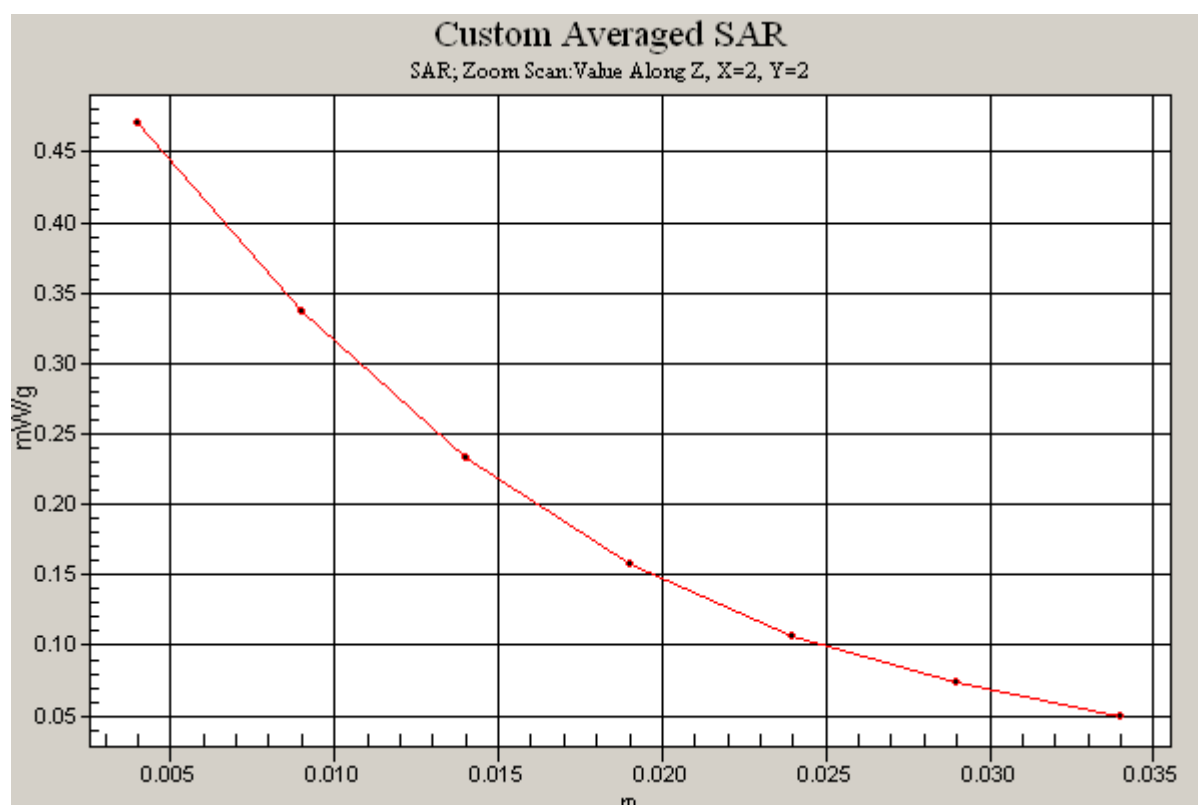
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.36 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.581 W/kg

SAR(1 g) = 0.433 mW/g

Maximum value of SAR (measured) = 0.470 mW/g



SAMSUNG FCC ID : A3LSGHE820N -- 1900MHz GSM1900 Face SAR

DUT: SGH-E820P(Down); Serial: FB-072-C

Program Name: SGH-E820P GSM1900 Flat (Slide.Down, Job No.: FB-072)

Procedure Name: PTT, Ch.512, Ant.Intenna Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.5; Test Date-28/Dec/2004 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM1900 PTT; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1551; ConvF(5, 5, 5); Calibrated: 2004-04-27
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2004-08-23
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

PTT, Ch.512, Ant.Intenna Bat.Standard/Area Scan (51x71x1): Measurement grid:

$dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.083 mW/g

PTT, Ch.512, Ant.Intenna Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.74 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.074 mW/g

Maximum value of SAR (measured) = 0.080 mW/g

