

SAMSUNG FCC ID : A3LSGHT509 - - 835MHz GSM850 Head SAR

DUT: SGH-T509; Serial: FD-013-B

Program Name: SGH-T509 GSM850 Right (Job No. : FD-013)

Procedure Name: Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 41.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.14, 6.14, 6.14); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.464 mW/g

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

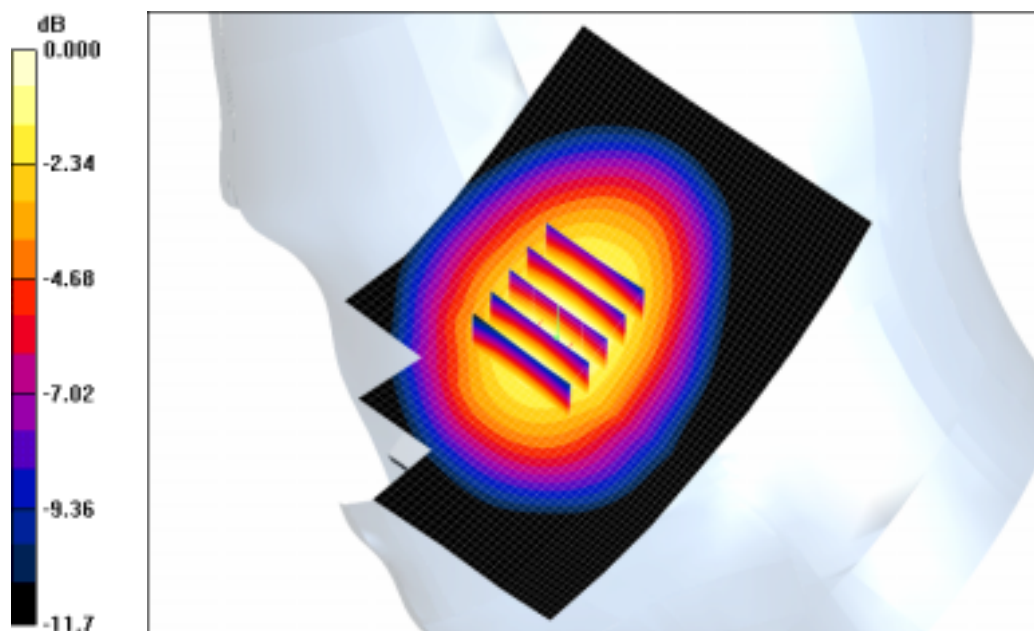
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.53 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.596 W/kg

**SAR(1 g) = 0.437 mW/g**

Maximum value of SAR (measured) = 0.471 mW/g



0 dB = 0.471mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 835MHz GSM850 Head SAR

DUT: SGH-T509; Serial: FD-013-B

Program Name: SGH-T509 GSM850 Right (Job No. : FD-013)

Procedure Name: Ear/Tilt, Ch.190, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 41.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.14, 6.14, 6.14); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Ear/Tilt, Ch.190, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

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

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

Ear/Tilt, Ch.190, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement

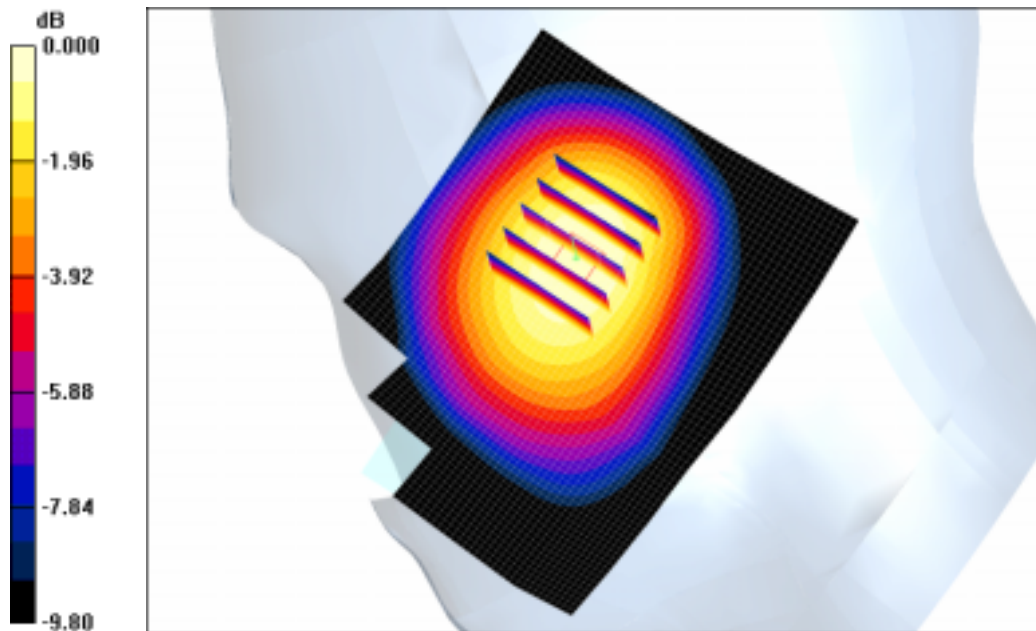
grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.55 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.180 W/kg

**SAR(1 g) = 0.137 mW/g**

Maximum value of SAR (measured) = 0.146 mW/g



0 dB = 0.146mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 835MHz GSM850 Head SAR

DUT: SGH-T509; Serial: FD-013-B

Program Name: SGH-T509 GSM850 Left (Job No. : FD-013)

Procedure Name: Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 41.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.14, 6.14, 6.14); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.455 mW/g

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

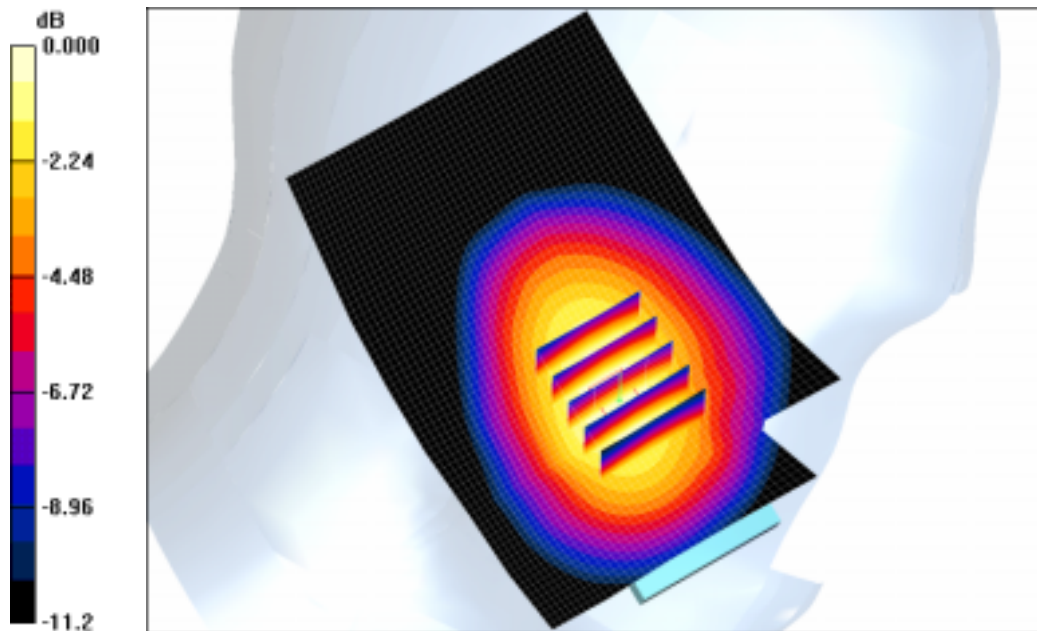
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.25 V/m; Power Drift = 0.073 dB

Peak SAR (extrapolated) = 0.565 W/kg

**SAR(1 g) = 0.407 mW/g**

Maximum value of SAR (measured) = 0.438 mW/g



0 dB = 0.438mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 835MHz GSM850 Head SAR

DUT: SGH-T509; Serial: FD-013-B

Program Name: SGH-T509 GSM850 Left (Job No. : FD-013)

Procedure Name: Ear/Tilt, Ch.190, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 41.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.14, 6.14, 6.14); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Ear/Tilt, Ch.190, Ant.Intenna, Bat.Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.134 mW/g

Ear/Tilt, Ch.190, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0: Measurement

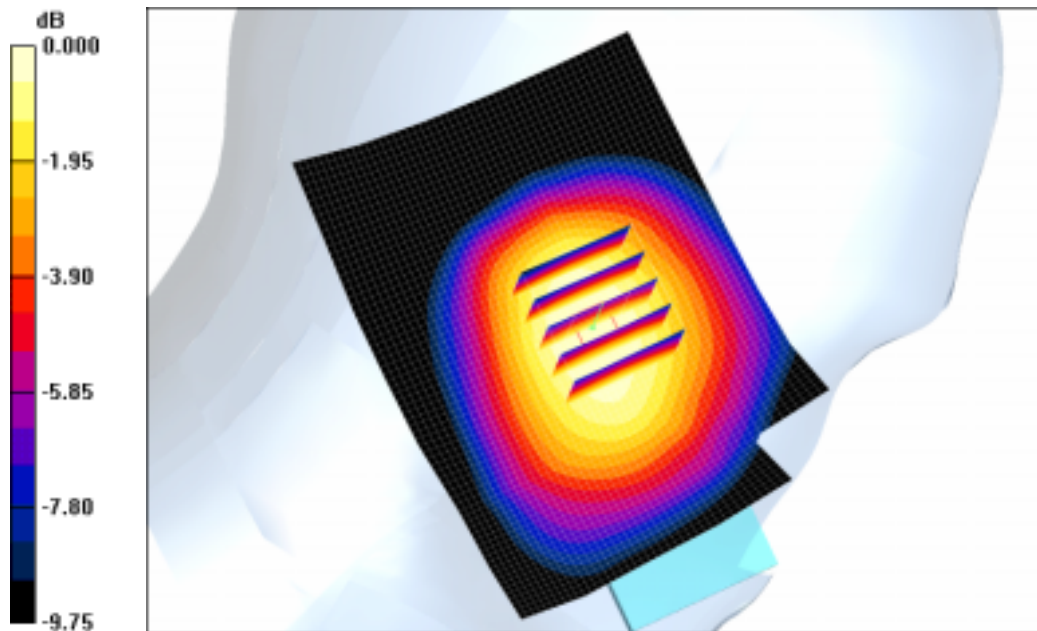
grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.69 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 0.155 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 : A3LSGHT509 - - 835MHz GSM850 Head SAR

DUT: SGH-T509; Serial: FD-013-B

Program Name: SGH-T509 GSM850 Right (Job No. : FD-013)

Procedure Name: Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth

Procedure Notes: Meas.Tissue Temp(celsius)-21.6, Ambient Temp-22.6; Test Date-07/Feb/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 41.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.14, 6.14, 6.14); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth/Area Scan (51x71x1):**

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

Maximum value of SAR (interpolated) = 0.464 mW/g

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth/Zoom Scan**

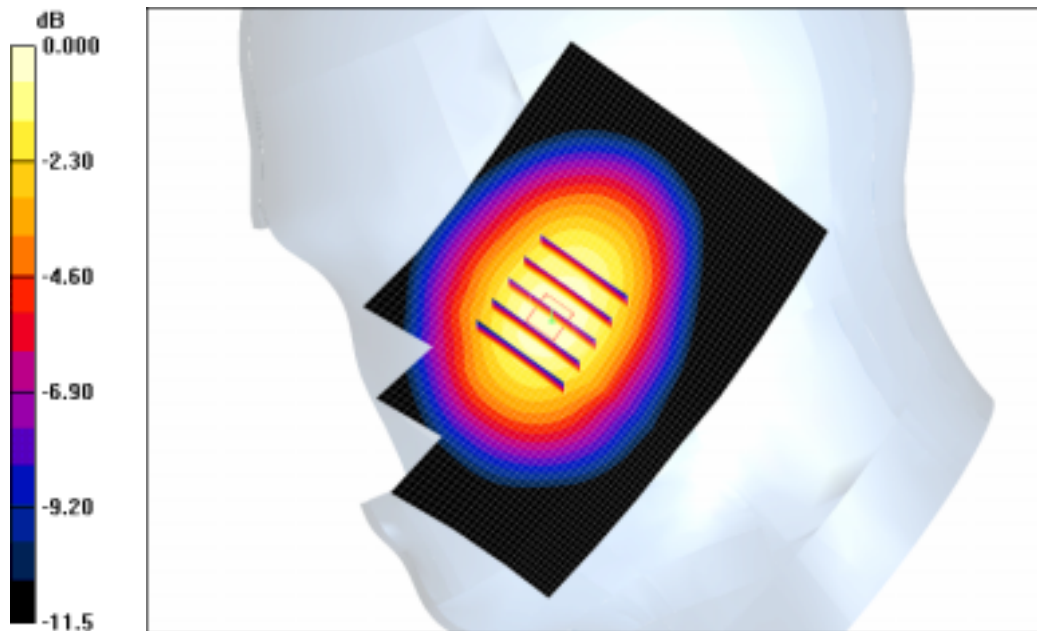
**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.58 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 0.585 W/kg

**SAR(1 g) = 0.430 mW/g**

Maximum value of SAR (measured) = 0.463 mW/g



0 dB = 0.463mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 835MHz GSM850 Head SAR

DUT: SGH-T509; Serial: FD-013-B

Program Name: SGH-T509 GSM850 Right (Job No. : FD-013)

Procedure Name: Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.6, Ambient Temp-22.6; Test Date-07/Feb/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 41.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.14, 6.14, 6.14); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard/Area Scan (51x71x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.464 mW/g

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 6.53 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.596 W/kg

**SAR(1 g) = 0.437 mW/g**

Maximum value of SAR (measured) = 0.471 mW/g



SAMSUNG FCC ID : A3LSGHT509 - - 835MHz GSM850 Head SAR

DUT: SGH- T509; Serial: FD-013-B

Program Name: SGH- T509 GSM850 Right (Job No. : FD-013)

Procedure Name: Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth

Procedure Notes: Meas.Tissue Temp(celsius)-21.6, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 41.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.14, 6.14, 6.14); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth/Area Scan (51x71x1):**

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

Maximum value of SAR (interpolated) = 0.464 mW/g

**Cheek/Touch, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth/Zoom Scan**

**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.58 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 0.585 W/kg

**SAR(1 g) = 0.430 mW/g**

Maximum value of SAR (measured) = 0.463 mW/g



SAMSUNG FCC ID : A3LSGHT509 - - 835MHz GPRS850 Body SAR

DUT: SGH-T509(Body); Serial: FD-013-B

Program Name: SGH-T509 GSM850 Body (Job No. : FD-013)

Procedure Name: Body, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth

Procedure Notes: Meas.Tissue Temp(celsius)-21.9, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM 850 (GPRS); Frequency: 848.8 MHz;Duty Cycle: 1:4.15

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.18, 6.18, 6.18); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Body, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth/Area Scan (51x71x1):**

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

Maximum value of SAR (interpolated) = 0.654 mW/g

**Body, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth/Zoom Scan (5x5x7)/Cube 0:**

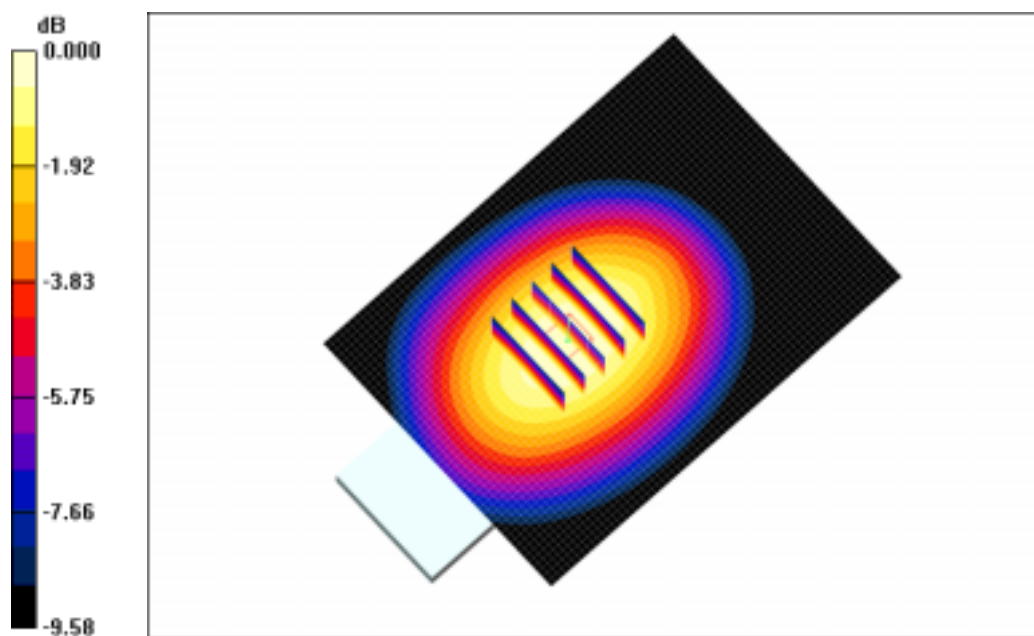
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.6 V/m; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 0.782 W/kg

**SAR(1 g) = 0.595 mW/g**

Maximum value of SAR (measured) = 0.636 mW/g



0 dB = 0.636mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 835MHz GSM850 Body SAR

DUT: SGH-T509(Body); Serial: FD-013-B

Program Name: SGH-T509 GSM850 Body (Job No. : FD-013)

Procedure Name: Body, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth

Procedure Notes: Meas.Tissue Temp(celsius)-21.9, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM 850 (GPRS); Frequency: 848.8 MHz;Duty Cycle: 1:4.15  
Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 54.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.18, 6.18, 6.18); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #1; Type: SAM; Serial: TP-1247
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Body, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth/Area Scan (51x71x1):**

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

Maximum value of SAR (interpolated) = 0.654 mW/g

**Body, Ch.251, Ant.Intenna, Bat.Standard With Bluetooth/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 17.6 V/m; Power Drift = 0.044 dB

Peak SAR (extrapolated) = 0.782 W/kg

**SAR(1 g) = 0.595 mW/g**

Maximum value of SAR (measured) = 0.636 mW/g



SAMSUNG FCC ID : A3LSGHT509 - - 1900MHz GSM1900 Head SAR

DUT: SGH-T509; Serial: FD-013-B

Program Name: SGH-T509 GSM1900 Right (Job No. : FD-013)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.02, 5.02, 5.02); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.723 mW/g

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

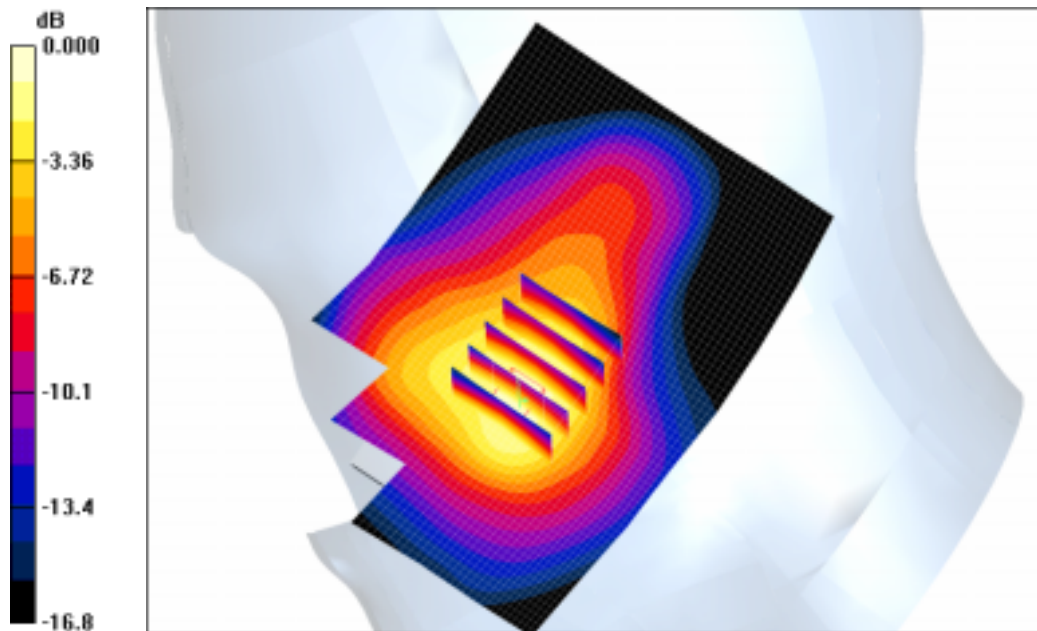
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.85 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.746 mW/g**

Maximum value of SAR (measured) = 0.808 mW/g



0 dB = 0.808mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 1900MHz GSM1900 Head SAR

DUT: SGH- T509; Serial: FD-013-B

Program Name: SGH- T509 GSM1900 Right (Job No. : FD-013)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7, Ambient Temp-22.6;Test Date-07/Feb/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;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.02, 5.02, 5.02); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

Maximum value of SAR (interpolated) = 0.190 mW/g

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

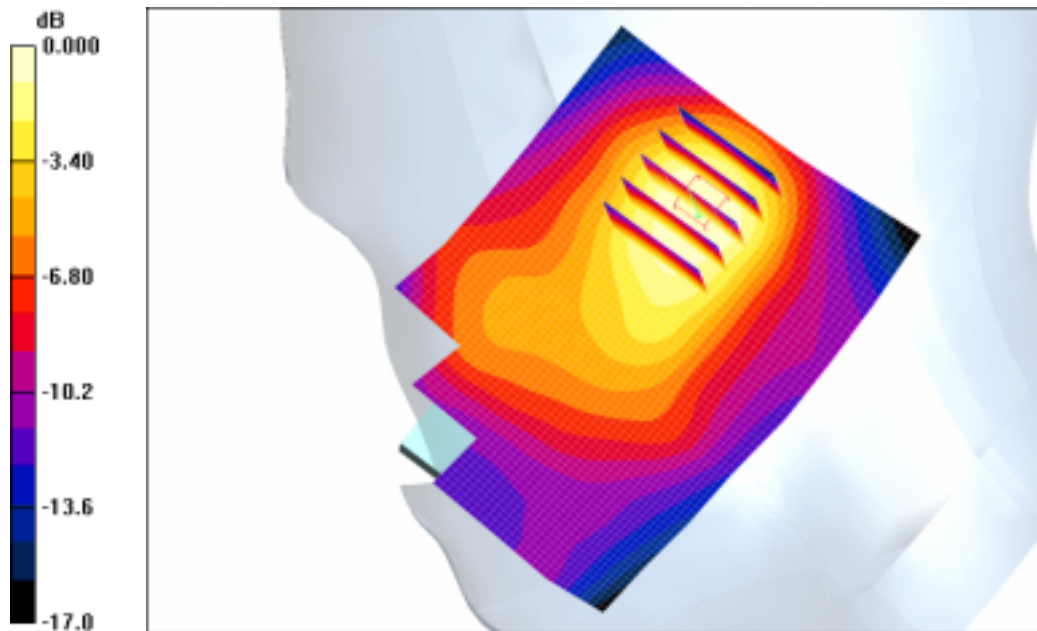
grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.72 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 0.210 W/kg

**SAR(1 g) = 0.148 mW/g**

Maximum value of SAR (measured) = 0.158 mW/g



0 dB = 0.158mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 1900MHz GSM1900 Head SAR

DUT: SGH- T509; Serial: FD-013-B

Program Name: SGH- T509 GSM1900 Left (Job No. : FD-013)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7, Ambient Temp-22.6;Test Date-07/Feb/2006[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;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.02, 5.02, 5.02); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.750 mW/g

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

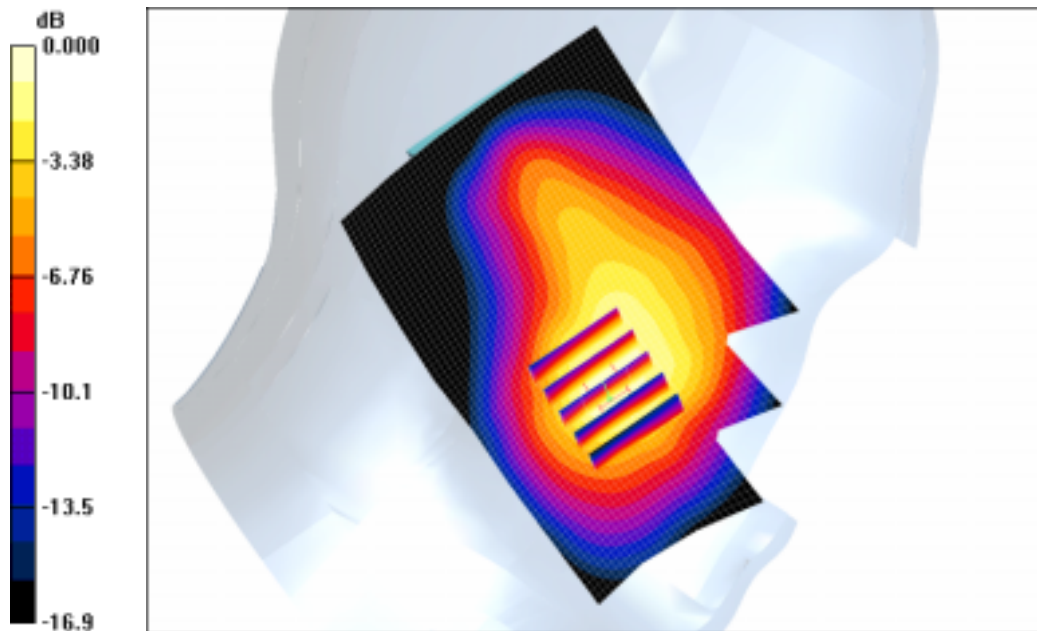
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.39 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.681 mW/g**

Maximum value of SAR (measured) = 0.731 mW/g



0 dB = 0.731mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 1900MHz GSM1900 Head SAR

DUT: SGH- T509; Serial: FD-013-B

Program Name: SGH- T509 GSM1900 Right (Job No. : FD-013)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7, Ambient Temp-22.6;Test Date-07/Feb/2006[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;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.02, 5.02, 5.02); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard With Bluetooth/Area Scan (51x71x1):**

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

Maximum value of SAR (interpolated) = 0.709 mW/g

**Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard With Bluetooth/Zoom Scan**

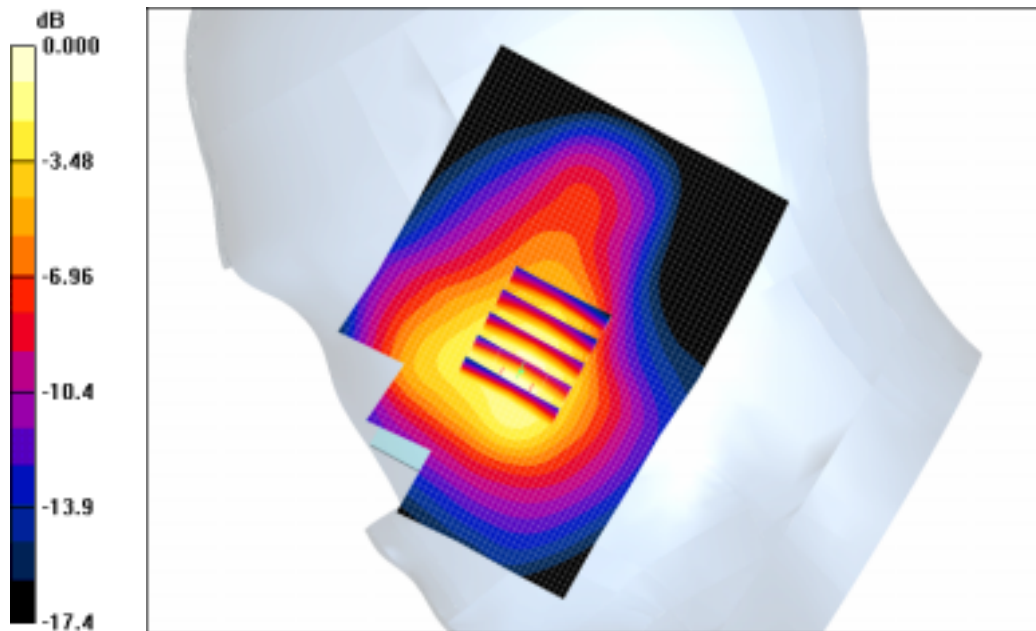
**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.62 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.737 mW/g**

Maximum value of SAR (measured) = 0.811 mW/g



0 dB = 0.811mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 1900MHz GSM1900 Head SAR

DUT: SGH- T509; Serial: FD-013-B

Program Name: SGH- T509 GSM1900 Left (Job No. : FD-013)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7, Ambient Temp-22.6;Test Date-07/Feb/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;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.02, 5.02, 5.02); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

Maximum value of SAR (interpolated) = 0.205 mW/g

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

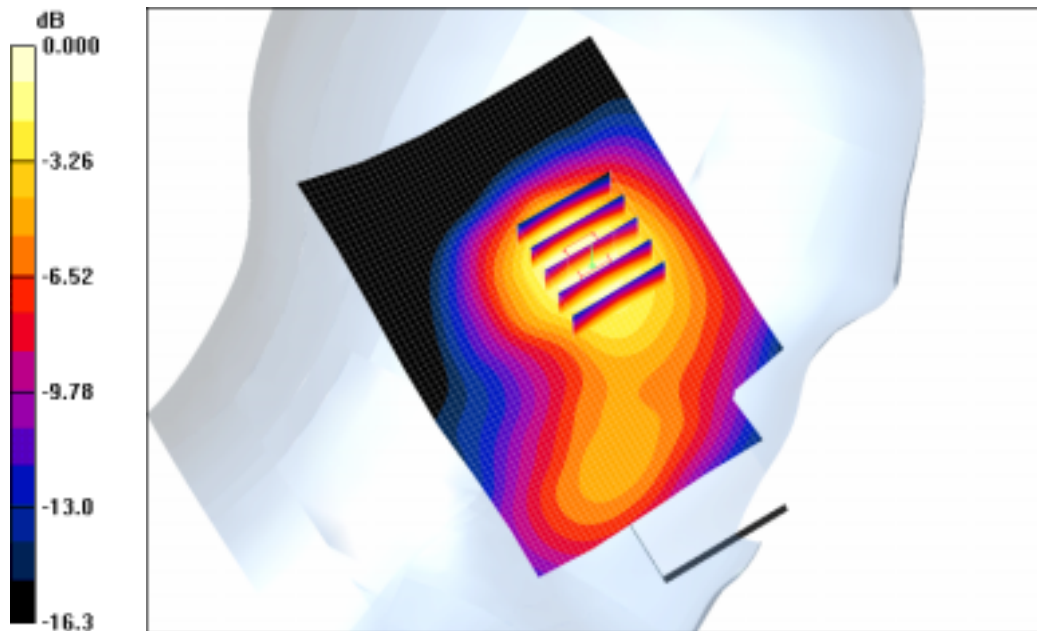
grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.46 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 0.291 W/kg

**SAR(1 g) = 0.196 mW/g**

Maximum value of SAR (measured) = 0.209 mW/g



0 dB = 0.209mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 1900MHz GSM1900 Head SAR

DUT: SGH-T509; Serial: FD-013-B

Program Name: SGH-T509 GSM1900 Right (Job No. : FD-013)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7, Ambient Temp-22.6; Test Date-07/Feb/2006 [OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.4$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.02, 5.02, 5.02); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Maximum value of SAR (interpolated) = 0.723 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 = 6.85 V/m; Power Drift = -0.077 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.746 mW/g**

Maximum value of SAR (measured) = 0.808 mW/g



SAMSUNG FCC ID : A3LSGHT509 - - 1900MHz GSM1900 Head SAR

DUT: SGH-T509; Serial: FD-013-B

Program Name: SGH-T509 GSM1900 Right (Job No. : FD-013)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7, Ambient Temp-22.6; Test Date-07/Feb/2006 [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;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(5.02, 5.02, 5.02); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard With Bluetooth/Area Scan (51x71x1):**

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

Maximum value of SAR (interpolated) = 0.709 mW/g

**Cheek/Touch, Ch.512, Ant.Intenna, Bat.Standard With Bluetooth/Zoom Scan**

**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.62 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.737 mW/g**

Maximum value of SAR (measured) = 0.811 mW/g



SAMSUNG FCC ID : A3LSGHT509 - - 1900MHz GPRS1900 Body SAR

DUT: SGH-T509(Body); Serial: FD-013-B

Program Name: SGH-T509 GPRS1900 Body (Job No. : FD-013)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM1900 GPRS; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(4.47, 4.47, 4.47); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):**

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

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

**Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:**

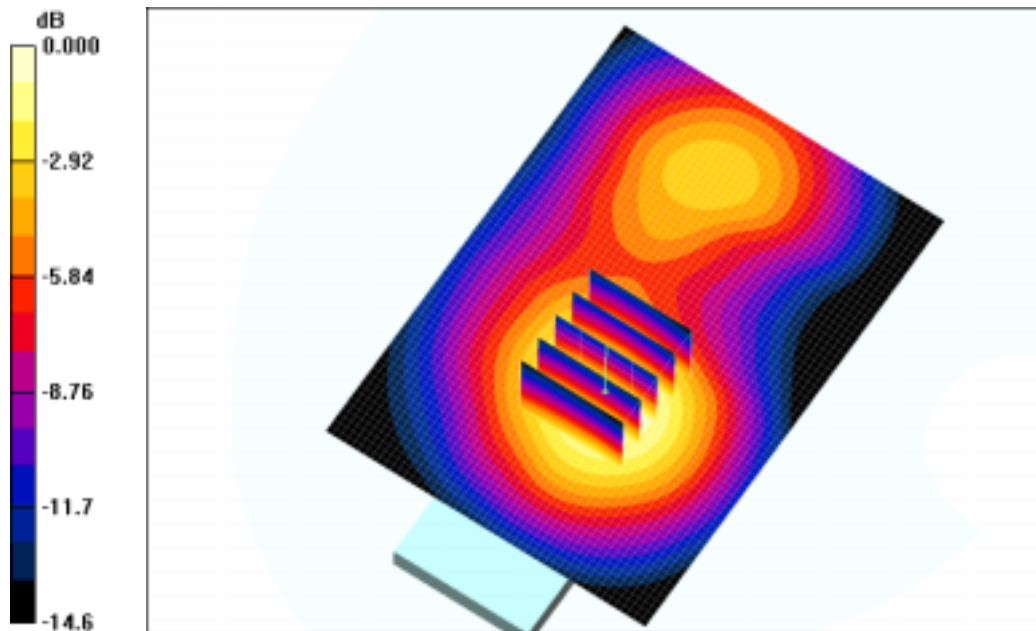
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.0 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.916 mW/g**

Maximum value of SAR (measured) = 0.984 mW/g



0 dB = 0.984mW/g

SAMSUNG FCC ID : A3LSGHT509 - - 1900MHz GSM1900 Body SAR

DUT: SGH-T509(Body); Serial: FD-013-B

Program Name: SGH-T509 GPRS1900 Body (Job No. : FD-013)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7, Ambient Temp-22.6;Test Date-07/Feb/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: GSM1900 GPRS; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15  
Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.54$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(4.47, 4.47, 4.47); Calibrated: 2005-09-20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2005-08-30
- Phantom: SAM PHANTOM #2; Type: SAM; Serial: TP-1248
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON/Area Scan (51x71x1):**

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

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

**Body, Ch.512, Ant.Intenna, Bat.Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:**

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

Reference Value = 14.0 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.916 mW/g**

Maximum value of SAR (measured) = 0.984 mW/g

