

APPENDIX F

Plots of The SAR Measurements

SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 CDMA Right (Job No. : FD-058)

Procedure Name: Cheek/Touch, Ch.0777, Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)-21.8; Tissue Temp(celsius)-21.7; Test Date-20/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 848.31 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 40.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.31, 9.31, 9.31); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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.0777, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 18.5 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 1.16 W/kg

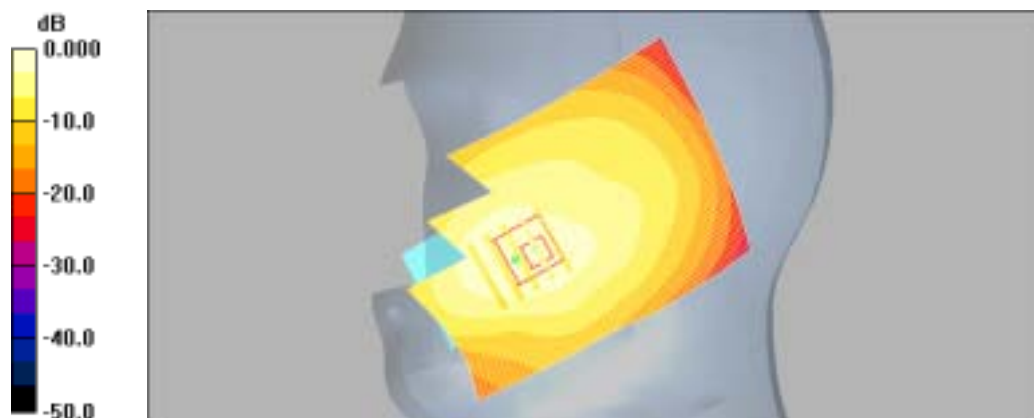
SAR(1 g) = 0.760 mW/g

Maximum value of SAR (measured) = 0.802 mW/g

Cheek/Touch, Ch.0777, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.818 mW/g



0 dB = 0.818mW/g

SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 CDMA Right (Job No. : FD-058)

Procedure Name: Ear/Tilt, Ch.0384, Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)-21.8; Tissue Temp(celsius)-21.7; Test Date-20/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.52$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.31, 9.31, 9.31); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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.0384, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.074 mW/g

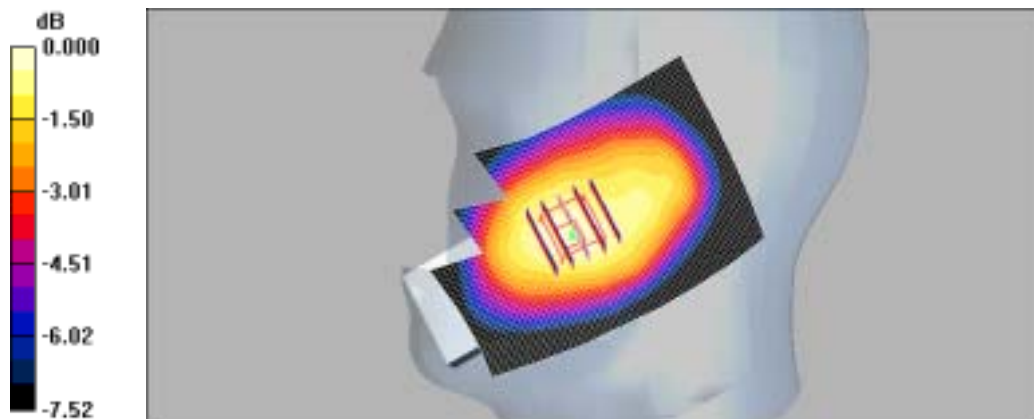
Ear/Tilt, Ch.0384, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.72 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.092 W/kg

SAR(1 g) = 0.073 mW/g

Maximum value of SAR (measured) = 0.077 mW/g



0 dB = 0.077mW/g

SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 CDMA Left (Job No. : FD-058)

Procedure Name: Cheek/Touch, Ch.0777, Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius) -21.8; Tissue Temp(celsius) -21.7; Test Date -20/May/2006 [OET Bulletin 65 - Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 848.31 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 40.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.31, 9.31, 9.31); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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.0777, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 18.9 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 0.761 W/kg

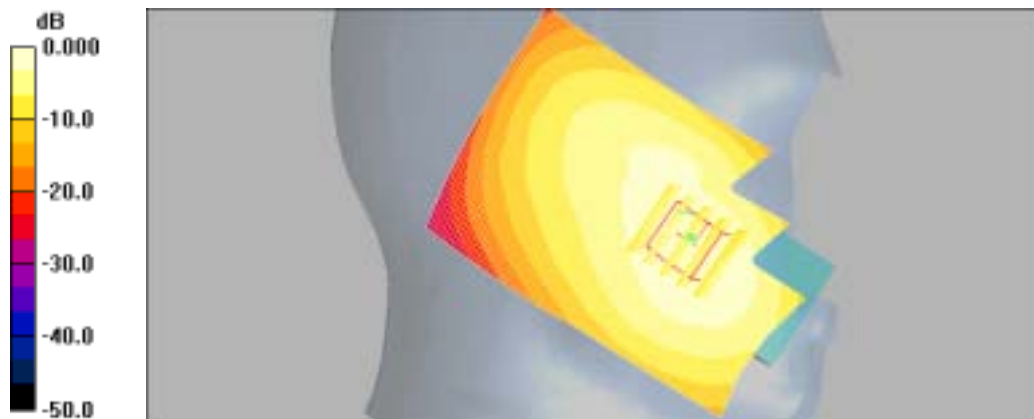
SAR(1 g) = 0.555 mW/g

Maximum value of SAR (measured) = 0.584 mW/g

Cheek/Touch, Ch.0777, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.607 mW/g



0 dB = 0.607mW/g

SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 CDMA Left (Job No. : FD-058)

Procedure Name: Ear/Tilt, Ch.0384, Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius) -21.8; Tissue Temp(celsius) -21.7; Test Date -20/May/2006 [OET Bulletin 65 - Supplement C, July 2001]

Communication System: CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.52$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.31, 9.31, 9.31); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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.0384, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.073 mW/g

Ear/Tilt, Ch.0384, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement

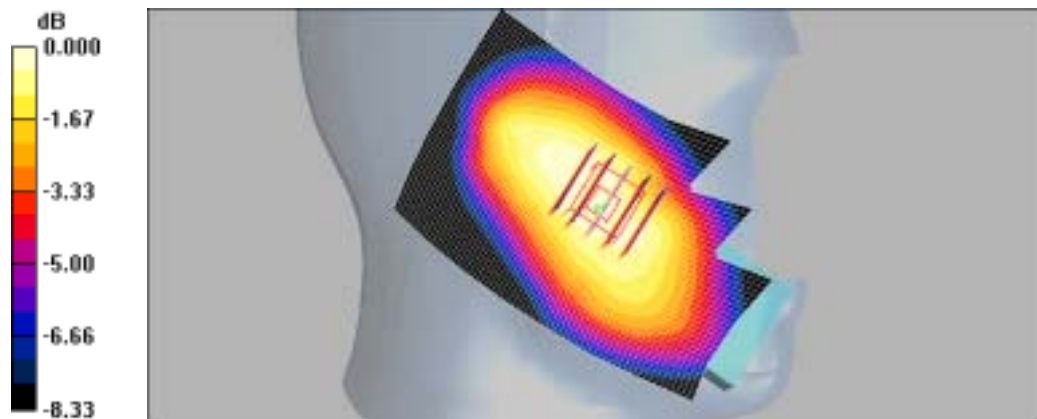
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.47 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.084 W/kg

SAR(1 g) = 0.066 mW/g

Maximum value of SAR (measured) = 0.069 mW/g



0 dB = 0.069mW/g

SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 CDMA Right (Job No. : FD-058)

Procedure Name: Cheek/Touch, Ch.0777, Intenna, Bat. Standard with BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-21.8; Tissue Temp(celsius)-21.7; Test Date-20/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.31, 9.31, 9.31); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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.0777, Intenna, Bat. Standard with BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.775 mW/g

Cheek/Touch, Ch.0777, Intenna, Bat. Standard with BT ON/Zoom Scan (5x5x7)/Cube 0:

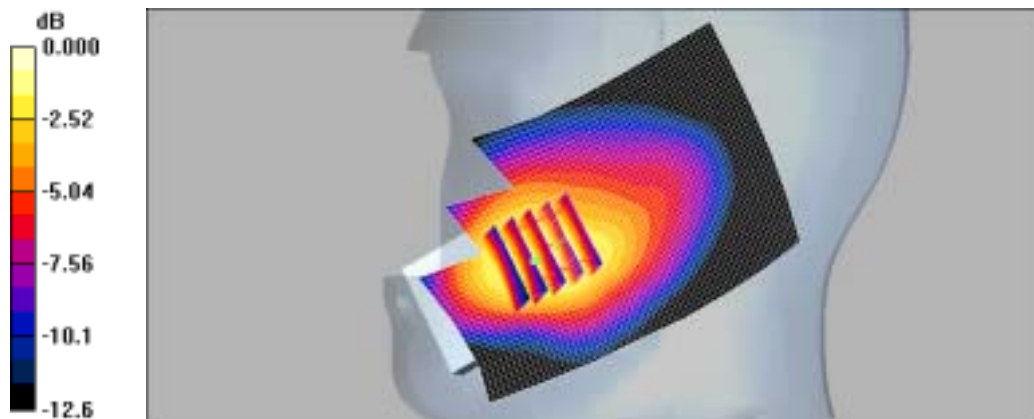
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.2 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.724 mW/g

Maximum value of SAR (measured) = 0.760 mW/g



0 dB = 0.760mW/g

SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Body SAR

DUT: SPH-A720(Body); Serial: FD-058-M

Program Name: SPH-A720 CDMA Body (Job No. : FD-058)

Procedure Name: Body, Ch. 0777, Ant. Intenna, Bat. Standard

Procedure Notes: Meas.Tissue Temp(celsius)-21.9, Ambient Temp-21.9 Test Date-20/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.57, 9.57, 9.57); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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. 0777, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.6 V/m; Power Drift = -0.176 dB

Peak SAR (extrapolated) = 1.18 W/kg

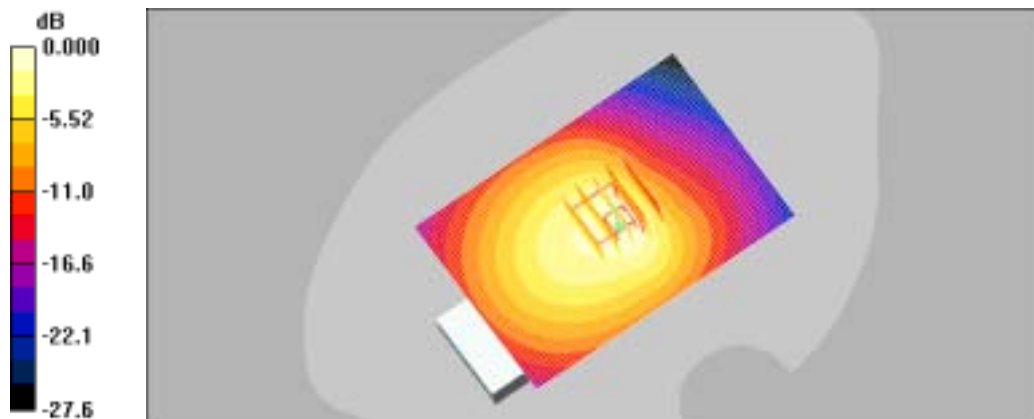
SAR(1 g) = 0.798 mW/g

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

Body, Ch. 0777, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.975 mW/g



0 dB = 0.975mW/g

SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Body SAR

DUT: SPH-A720(Body); Serial: FD-058-M

Program Name: SPH-A720 CDMA Body (Job No. : FD-058)

Procedure Name: Body, Ch. 0777, Ant. Intenna, Bat. Standard With BT ON

Procedure Notes: Meas.Tissue Temp(celsius)-21.9, Ambient Temp-21.9 Test Date-20/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.57, 9.57, 9.57); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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. 0777, Ant. Intenna, Bat. Standard With BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.988 mW/g

Body, Ch. 0777, Ant. Intenna, Bat. Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:

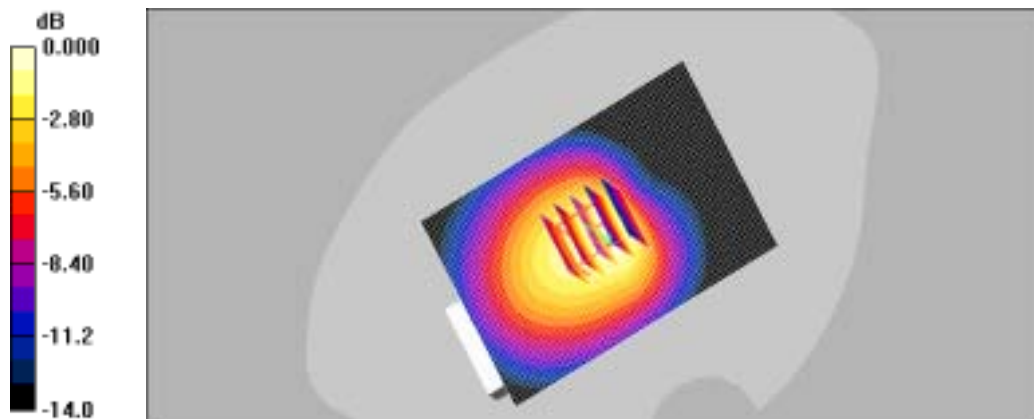
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.9 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.861 mW/g

Maximum value of SAR (measured) = 0.934 mW/g



0 dB = 0.934mW/g

SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Body SAR

DUT: SPH-A720(Body); Serial: FD-058-M

Program Name: SPH-A720 CDMA Body (Job No. : FD-058)

Procedure Name: Body, Ch. 0777, Ant. Intenna, Bat. Standard : 1x EV-DO

Procedure Notes: Meas.Tissue Temp(celsius)-21.9, Ambient Temp-21.9 Test Date-20/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.57, 9.57, 9.57); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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. 0777, Ant. Intenna, Bat. Standard : 1x EV-DO/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.855 mW/g

Body, Ch. 0777, Ant. Intenna, Bat. Standard : 1x EV-DO/Zoom Scan (5x5x7)/Cube 0:

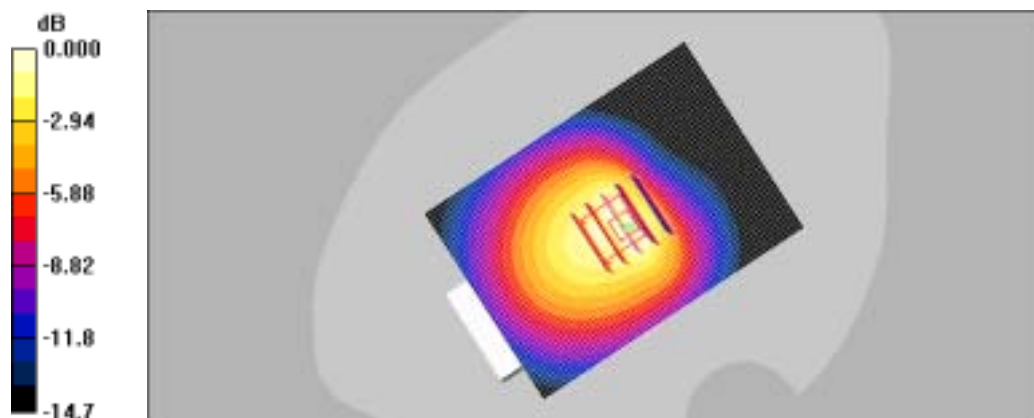
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.2 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.727 mW/g

Maximum value of SAR (measured) = 0.794 mW/g



0 dB = 0.794mW/g

SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 PCS Right (Job No. : FD-058)

Procedure Name: Cheek/Touch, Ch.0025, Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)-21.8; Tissue Temp(celsius)-21.9 ;Test Date-22/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1851.25 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.81, 4.81, 4.81); Calibrated: 2005-11-22
- 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.0025, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:
dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.64 mW/g

Cheek/Touch, Ch.0025, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

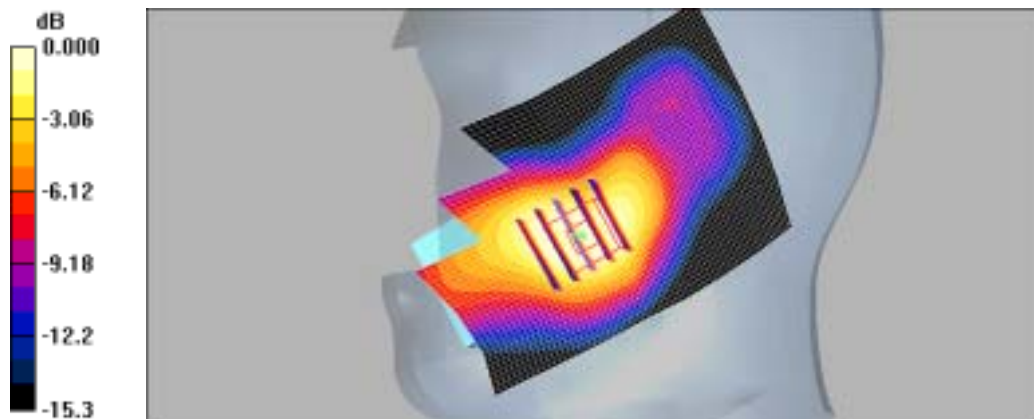
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.9 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 1.26 mW/g

Maximum value of SAR (measured) = 1.36 mW/g



0 dB = 1.36mW/g

SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 PCS Right (Job No. : FD-058)

Procedure Name: Ear/Tilt, Ch.0600, Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)-21.8; Tissue Temp(celsius)-21.9 ;Test Date-22/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.81, 4.81, 4.81); Calibrated: 2005-11-22
- 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.0600, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.99 V/m; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 0.264 W/kg

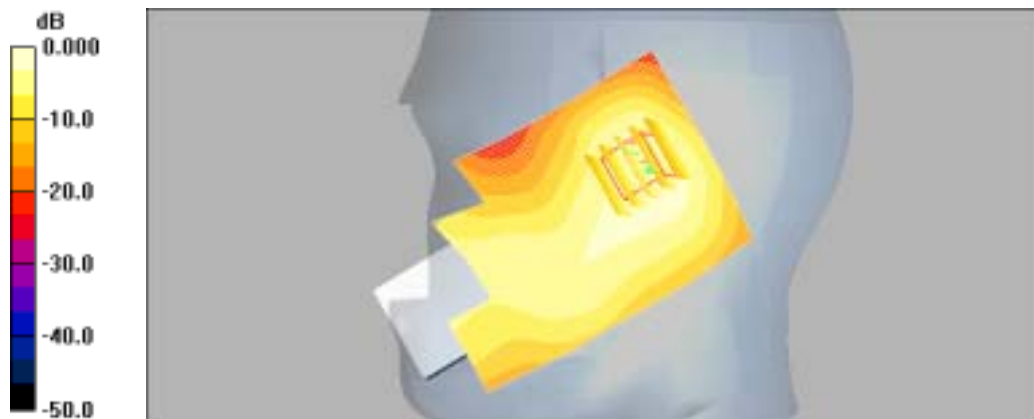
SAR(1 g) = 0.178 mW/g

Maximum value of SAR (measured) = 0.191 mW/g

Ear/Tilt, Ch.0600, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.256 mW/g



0 dB = 0.256mW/g

SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 PCS Right (Job No. : FD-058)

Procedure Name: Cheek/Touch, Ch.0025, Intenna, Bat. Standard with BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-21.8; Tissue Temp(celsius)-21.9 ;Test Date-22/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1851.25 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.81, 4.81, 4.81); Calibrated: 2005-11-22
- 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.0025, Intenna, Bat. Standard with BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 1.69 mW/g

Cheek/Touch, Ch.0025, Intenna, Bat. Standard with BT ON/Zoom Scan (5x5x7)/Cube 0:

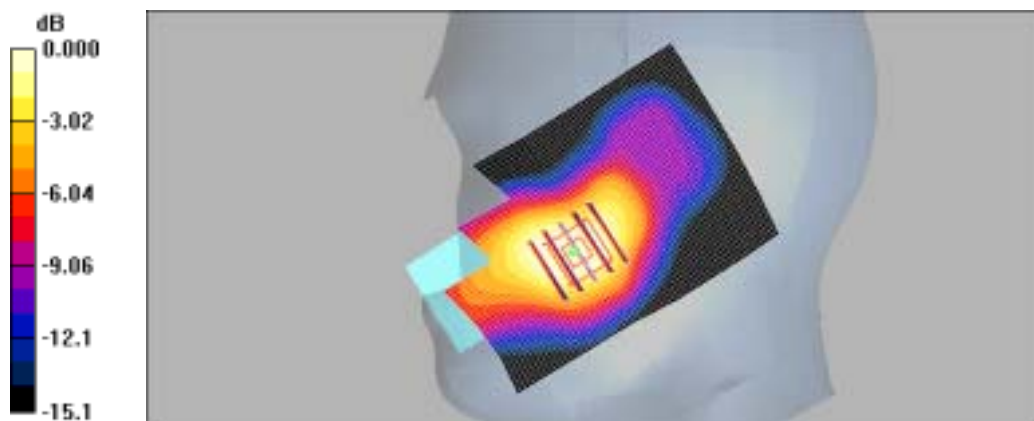
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.1 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 1.28 mW/g

Maximum value of SAR (measured) = 1.38 mW/g



0 dB = 1.38mW/g

SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 PCS Left (Job No. : FD-058)

Procedure Name: Cheek/Touch, Ch.0025, Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius) -21.8; Tissue Temp(celsius) -21.9; Test Date -22/May/2006 [OET Bulletin 65 - Supplement C, July 2001]

Communication System: PCS; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.81, 4.81, 4.81); Calibrated: 2005-11-22
- 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.0025, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.37 mW/g

Cheek/Touch, Ch.0025, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

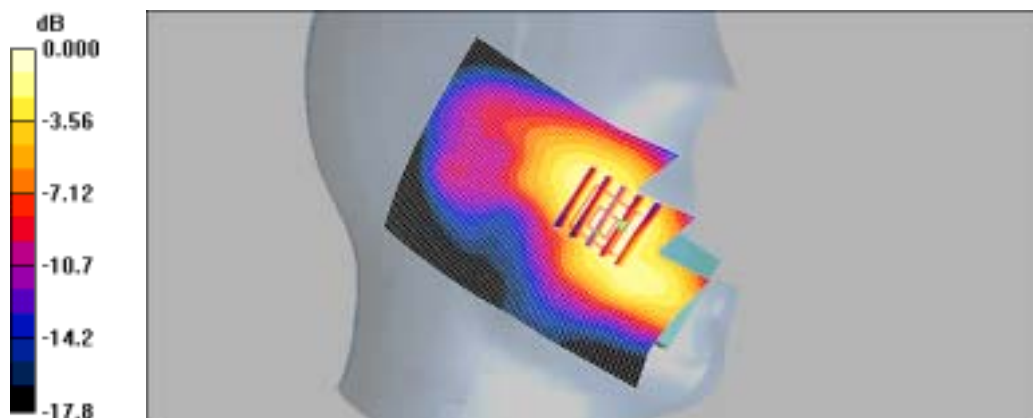
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.1 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.15 mW/gg

Maximum value of SAR (measured) = 1.24 mW/g



0 dB = 1.24mW/g

SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 PCS Left (Job No. : FD-058)

Procedure Name: Ear/Tilt, Ch.0600, Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)-21.8; Tissue Temp(celsius)-21.9 ;Test Date-22/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.81, 4.81, 4.81); Calibrated: 2005-11-22
- 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.0600, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.66 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.241 W/kg

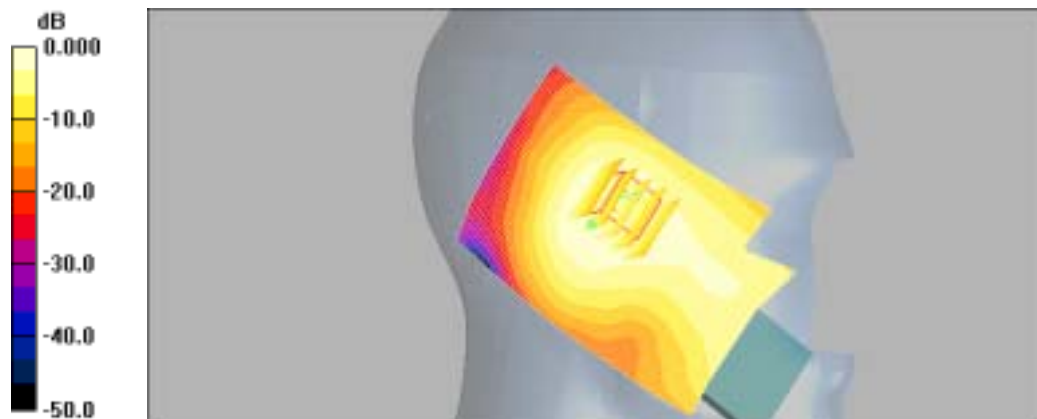
SAR(1 g) = 0.161 mW/g

Maximum value of SAR (measured) = 0.174 mW/g

Ear/Tilt, Ch.0600, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.171 mW/g



0 dB = 0.171mW/g

SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Body SAR

DUT: SPH-A720(Body); Serial: FD-058-M

Program Name: SCH-A720 PCS Body (Job No. : FD-058)

Procedure Name: Body, Ch. 0025, Ant. Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)-21.9; Tissue Temp(celsius)-22.0 ;Test Date-22/May/2006OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1851.25 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-11-22
- 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. 0025, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.526 mW/g

Body, Ch. 0025, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement

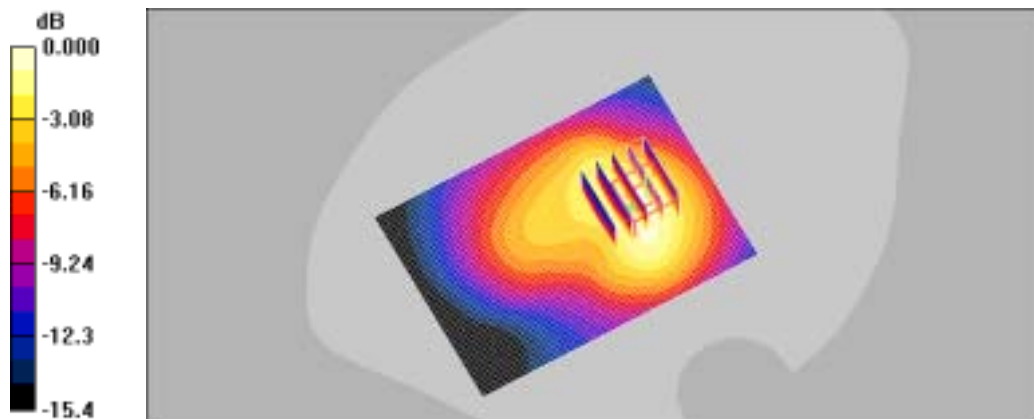
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.5 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 0.824 W/kg

SAR(1 g) = 0.543 mW/g

Maximum value of SAR (measured) = 0.584 mW/g



0 dB = 0.584mW/g

SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Body SAR

DUT: SPH-A720(Body); Serial: FD-058-M

Program Name: SCH-A720 PCS Body (Job No. : FD-058)

Procedure Name: Body, Ch. 0025, Ant. Intenna, Bat. Standard EV-DO

Procedure Notes: Meas. Ambient Temp(celsius)-21.9; Tissue Temp(celsius)-22.0 ;Test Date-22/May/2006OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1851.25 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-11-22
- 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. 0025, Ant. Intenna, Bat. Standard EV-DO/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.432 mW/g

Body, Ch. 0025, Ant. Intenna, Bat. Standard EV-DO/Zoom Scan (5x5x7)/Cube 0:

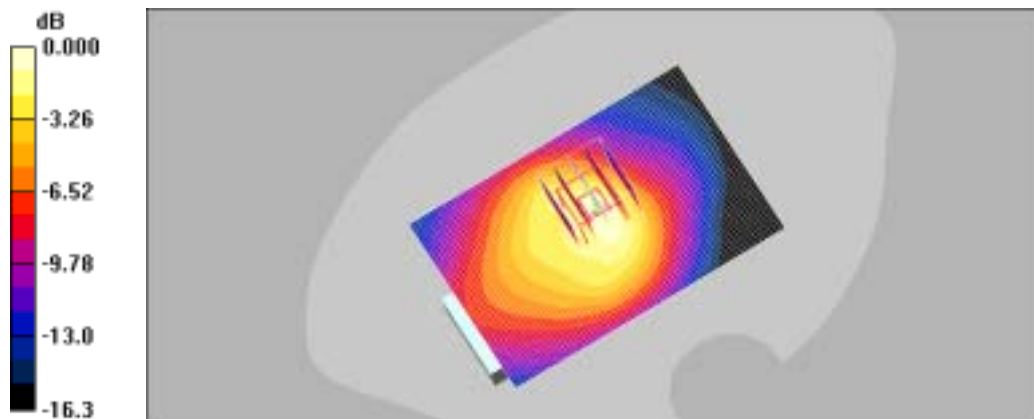
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.0 V/m; Power Drift = -0.188 dB

Peak SAR (extrapolated) = 0.610 W/kg

SAR(1 g) = 0.385 mW/g

Maximum value of SAR (measured) = 0.431 mW/g



0 dB = 0.431mW/g

SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Body SAR

DUT: SPH-A720(Body); Serial: FD-058-M

Program Name: SCH-A720 PCS Body (Job No. : FD-058)

Procedure Name: Body, Ch. 0025, Ant. Intenna, Bat. Standard With BT ON

Procedure Notes: Meas. Ambient Temp(celsius) -21.9; Tissue Temp(celsius) -22.0 ;Test Date-22/May/2006OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1851.25 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-11-22
- 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. 0025, Ant. Intenna, Bat. Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 17.5 V/m; Power Drift = 0.002 dB

Peak SAR (extrapolated) = 0.760 W/kg

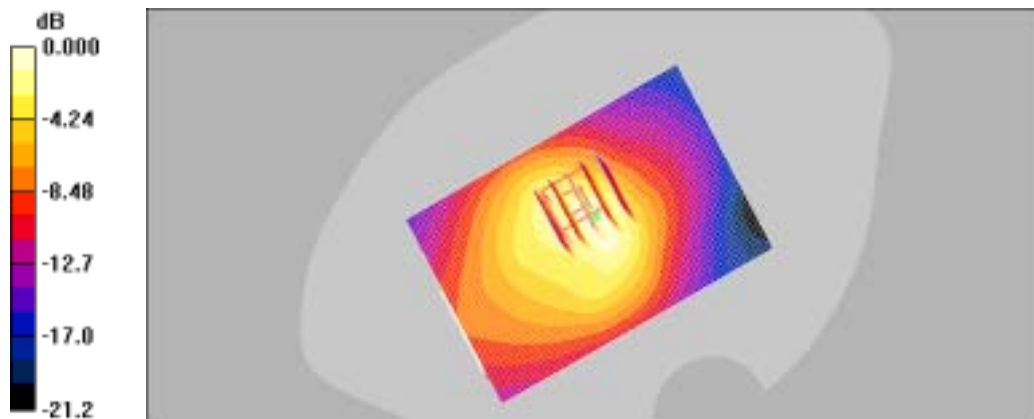
SAR(1 g) = 0.470 mW/g

Maximum value of SAR (measured) = 0.514 mW/g

Body, Ch. 0025, Ant. Intenna, Bat. Standard With BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.521 mW/g



0 dB = 0.521mW/g

SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 CDMA Right (Job No. : FD-058)

Procedure Name: Cheek/Touch, Ch.0777, Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)-21.8; Tissue Temp(celsius)-21.7; Test Date-20/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.31, 9.31, 9.31); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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.0777, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 18.5 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 1.16 W/kg

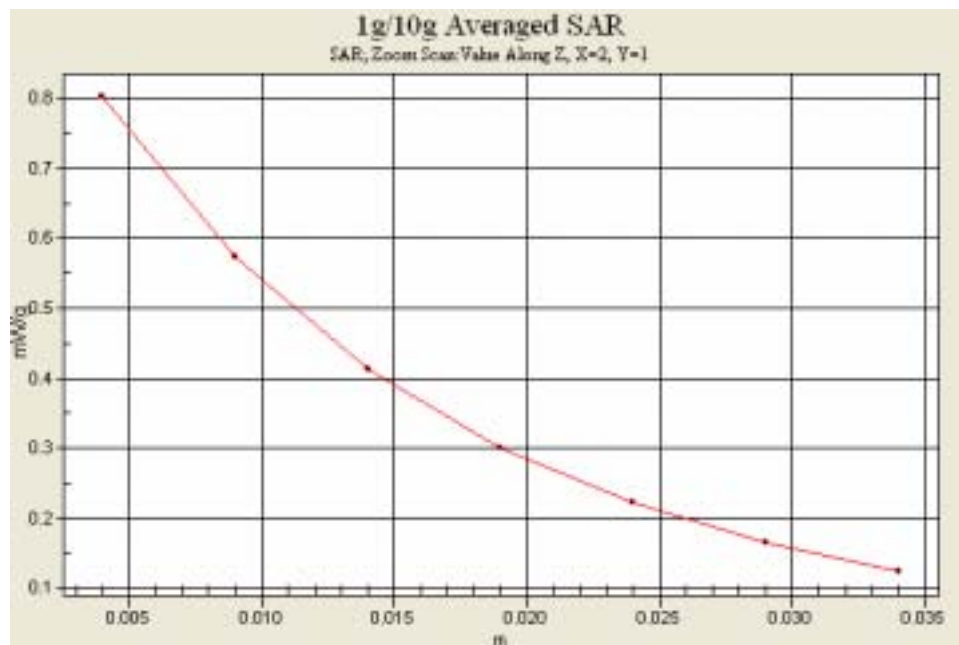
SAR(1 g) = 0.760 mW/g

Maximum value of SAR (measured) = 0.802 mW/g

Cheek/Touch, Ch.0777, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.818 mW/g



SAMSUNG FCC ID : A3LSPHA720 835MHz CDMA Body SAR

DUT: SPH-A720(Body); Serial: FD-058-M

Program Name: SPH-A720 CDMA Body (Job No. : FD-058)

Procedure Name: Body, Ch. 0777, Ant. Intenna, Bat. Standard With BT ON

Procedure Notes: Meas.Tissue Temp(celsius)-21.9, Ambient Temp-21.9 Test Date-20/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.31$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3537; ConvF(9.57, 9.57, 9.57); Calibrated: 2005-11-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn468; Calibrated: 2006-01-27
- 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. 0777, Ant. Intenna, Bat. Standard With BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.988 mW/g

Body, Ch. 0777, Ant. Intenna, Bat. Standard With BT ON/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 30.9 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.861 mW/g

Maximum value of SAR (measured) = 0.934 mW/g



SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Head SAR

DUT: SPH-A720; Serial: FD-058-M

Program Name: SPH-A720 PCS Right (Job No. : FD-058)

Procedure Name: Cheek/Touch, Ch.0025, Intenna, Bat. Standard with BT ON

Procedure Notes: Meas. Ambient Temp(celsius)-21.8; Tissue Temp(celsius)-21.9 ;Test Date-22/May/2006[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1851.25 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.81, 4.81, 4.81); Calibrated: 2005-11-22
- 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.0025, Intenna, Bat. Standard with BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 1.69 mW/g

Cheek/Touch, Ch.0025, Intenna, Bat. Standard with BT ON/Zoom Scan (5x5x7)/Cube 0:

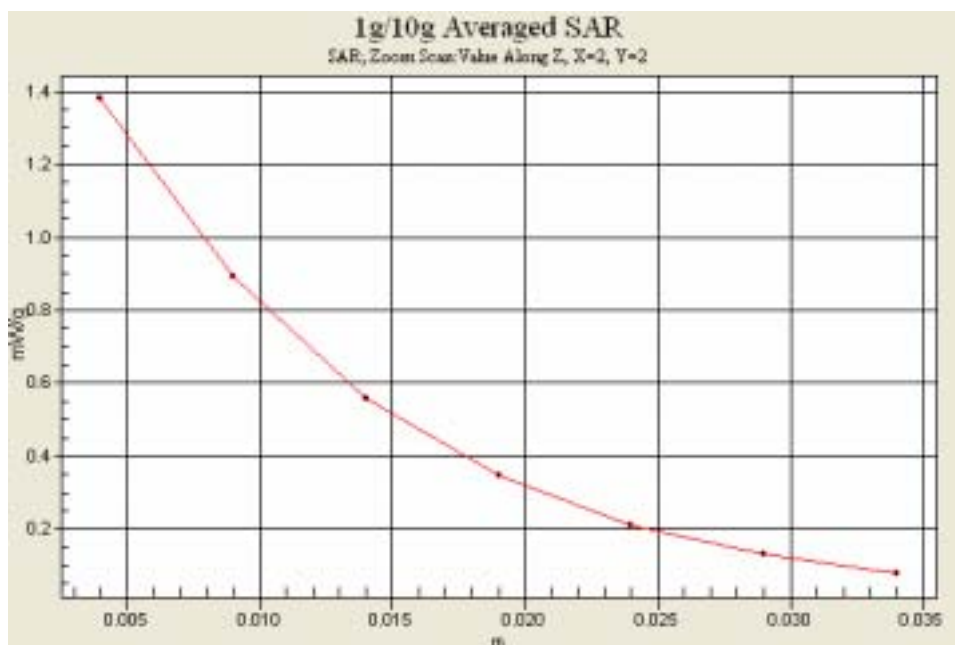
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.1 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 1.28 mW/g

Maximum value of SAR (measured) = 1.38 mW/g



SAMSUNG FCC ID : A3LSPHA720 1900MHz PCS Body SAR

DUT: SPH-A720(Body); Serial: FD-058-M

Program Name: SCH-A720 PCS Body (Job No. : FD-058)

Procedure Name: Body, Ch. 0025, Ant. Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)-21.9; Tissue Temp(celsius)-22.0 ;Test Date-22/May/2006OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1851.25 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1851.25$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(4.44, 4.44, 4.44); Calibrated: 2005-11-22
- 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. 0025, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.526 mW/g

Body, Ch. 0025, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.5 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 0.824 W/kg

SAR(1 g) = 0.543 mW/g

Maximum value of SAR (measured) = 0.584 mW/g

