

SAMSUNG FCC ID : A3LSPHA420 835MHz AMPS Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 AMPS Right (Job No. : FC-155)

Procedure Name: Cheek/Touch, Ch.0799, Intenna, Bat. Standard

Procedure Notes: Meas.Ambient Temp(celsius)-21.7;Tissue Temp(celsius)-21.5;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: AMPS; Frequency: 848.97 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.97$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- 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.0799, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.939 mW/g

Cheek/Touch, Ch.0799, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

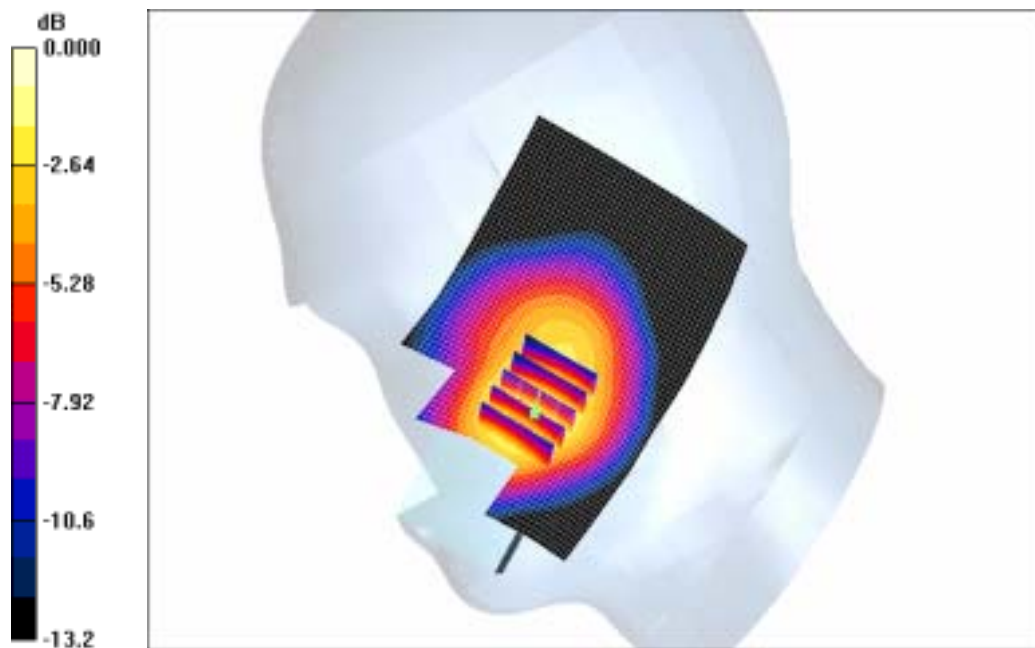
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.52 V/m; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.839 mW/g

Maximum value of SAR (measured) = 0.916 mW/g



0 dB = 0.916mW/g

SAMSUNG FCC ID : A3LSPHA420 835MHz AMPS Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 AMPS Right (Job No. : FC-155)

Procedure Name: Ear/Tilt, Ch.0368, Intenna, Bat. Standard

Procedure Notes: Meas.Ambient Temp(celsius)-21.7;Tissue Temp(celsius)-21.5;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: AMPS; Frequency: 836.49 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 836.49$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- 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.0368, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

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

Ear/Tilt, Ch.0368, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement

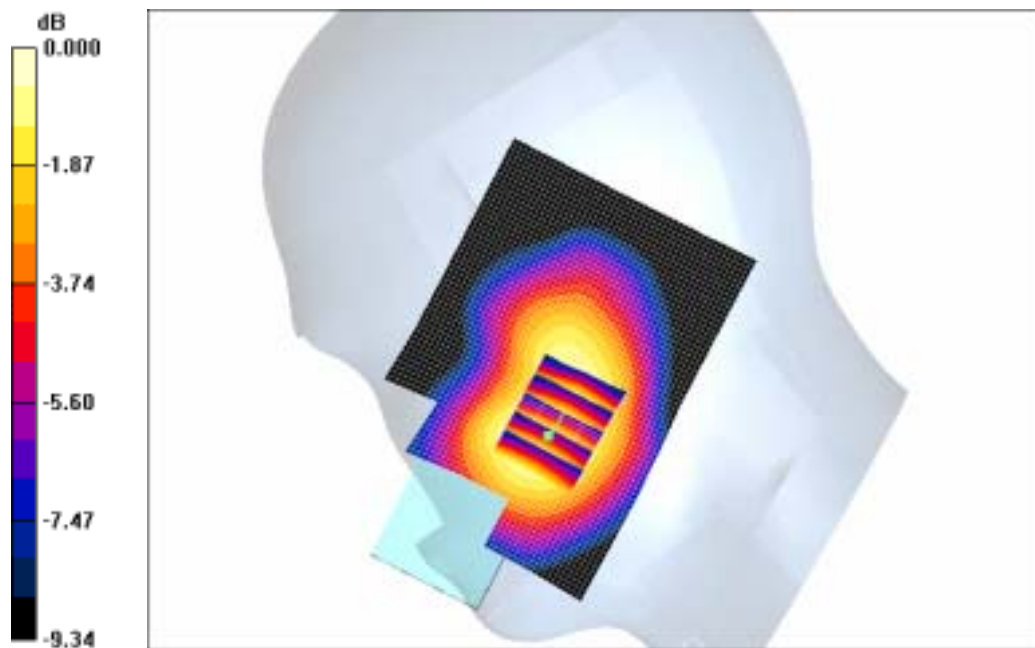
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.61 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.115 mW/g



0 dB = 0.115mW/g

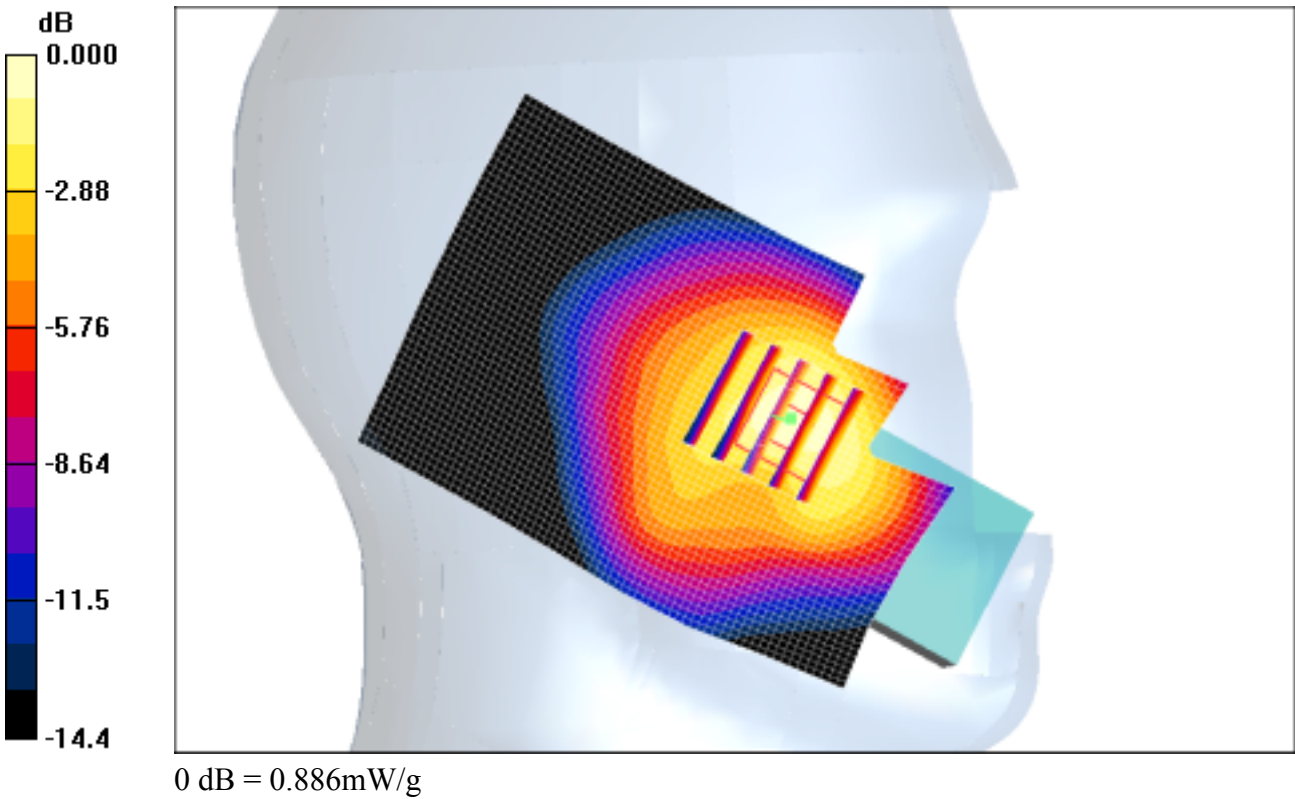
DUT: SPH-A420; Serial: FC-155-I
Program Name: SPH-A420 AMPS Left (Job No. : FC-155)
Procedure Name: Cheek/Touch, Ch.0799, Intenna, Bat. Standard
Procedure Notes: Meas.Ambient Temp(celsius)-21.7;Tissue Temp(celsius)-21.5;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: AMPS; Frequency: 848.97 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 848.97 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:
- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.0799, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$
Maximum value of SAR (interpolated) = 0.845 mW/g

Cheek/Touch, Ch.0799, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 5.35 V/m; Power Drift = -0.103 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.816 mW/g
Maximum value of SAR (measured) = 0.886 mW/g



SAMSUNG FCC ID : A3LSPHA420 835MHz AMPS Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 AMPS Left (Job No. : FC-155)

Procedure Name: Ear/Tilt, Ch.0383, Intenna, Bat. Standard

Procedure Notes: Meas.Ambient Temp(celsius)-21.7;Tissue Temp(celsius)-21.5;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: AMPS; Frequency: 836.49 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 836.49$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Ear/Tilt, Ch.0383, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.102 mW/g

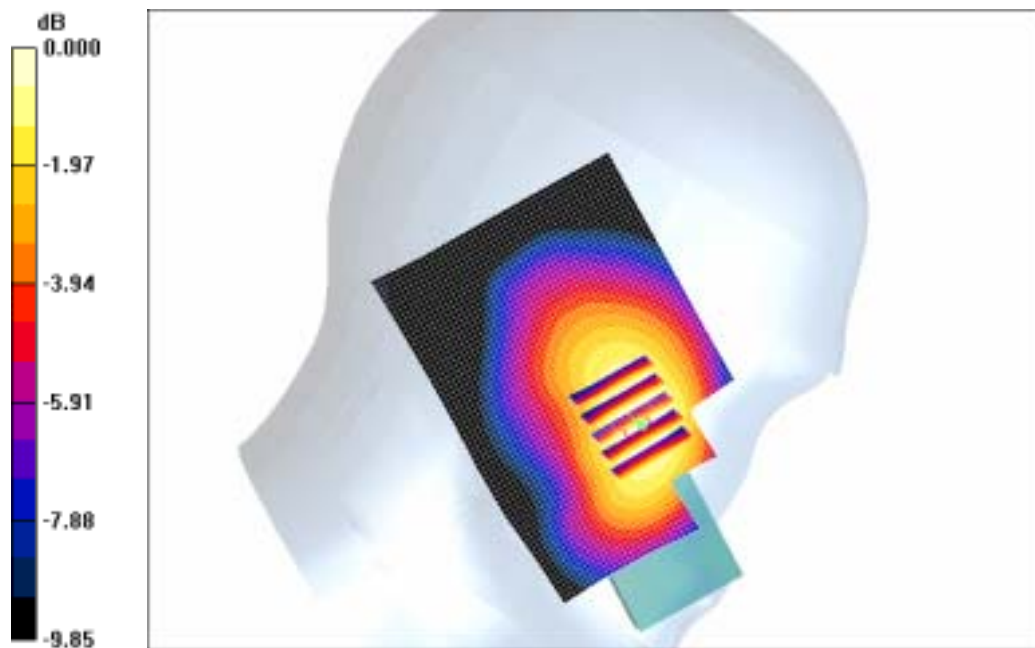
Ear/Tilt, Ch.0383, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.68 V/m; Power Drift = -0.143 dB

Peak SAR (extrapolated) = 0.126 W/kg

SAR(1 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.102 mW/g



0 dB = 0.102mW/g

SAMSUNG FCC ID : A3LSPHA420 835MHz CDMA Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 CDMA Right (Job No. : FC-155)

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

Procedure Notes: Meas.Ambient Temp(celsius)-21.9;Tissue Temp(celsius)-21.7;Test Date-23/Dec/2005[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; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- 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.0777, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.878 mW/g

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

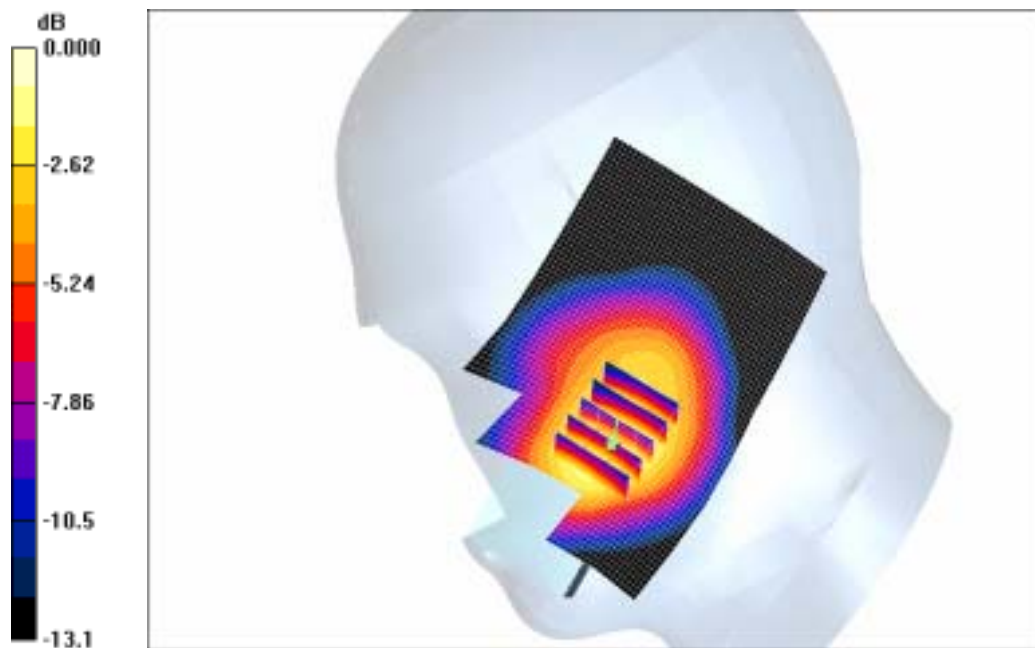
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.75 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.795 mW/g

Maximum value of SAR (measured) = 0.845 mW/g



0 dB = 0.845mW/g

SAMSUNG FCC ID : A3LSPHA420 835MHz CDMA Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 CDMA Right (Job No. : FC-155)

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

Procedure Notes: Meas.Ambient Temp(celsius)-21.9;Tissue Temp(celsius)-21.7;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- 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.0384, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.094 mW/g

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

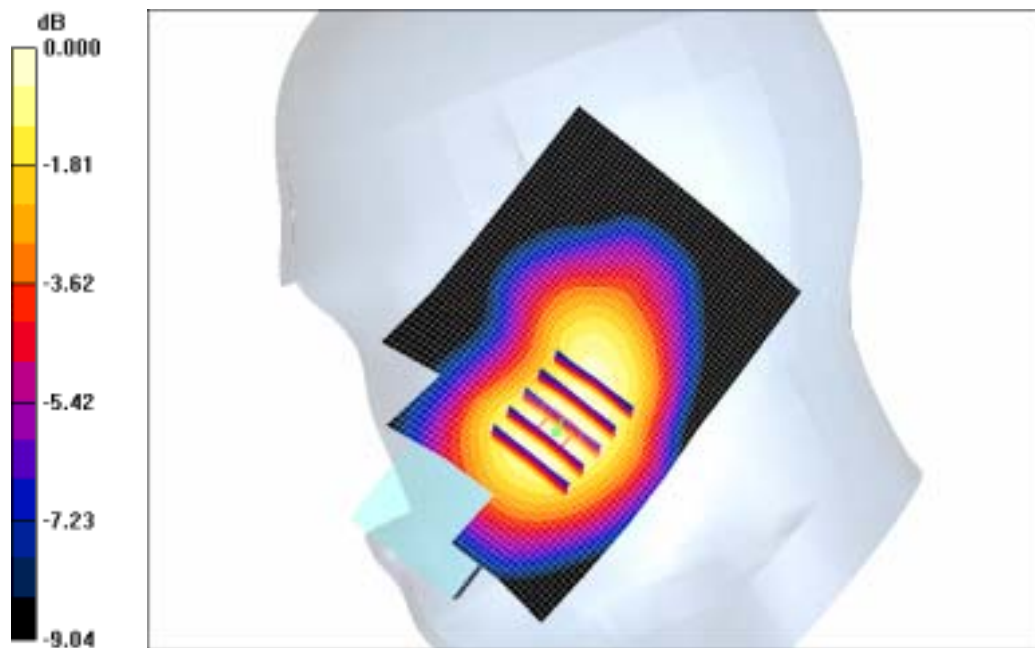
grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.10 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.091 mW/g



0 dB = 0.091mW/g

SAMSUNG FCC ID : A3LSPHA420 835MHz CDMA Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 CDMA Left (Job No. : FC-155)

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

Procedure Notes: Meas.Ambient Temp(celsius)-21.9;Tissue Temp(celsius)-21.7;Test Date-23/Dec/2005[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; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.0777, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.763 mW/g

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

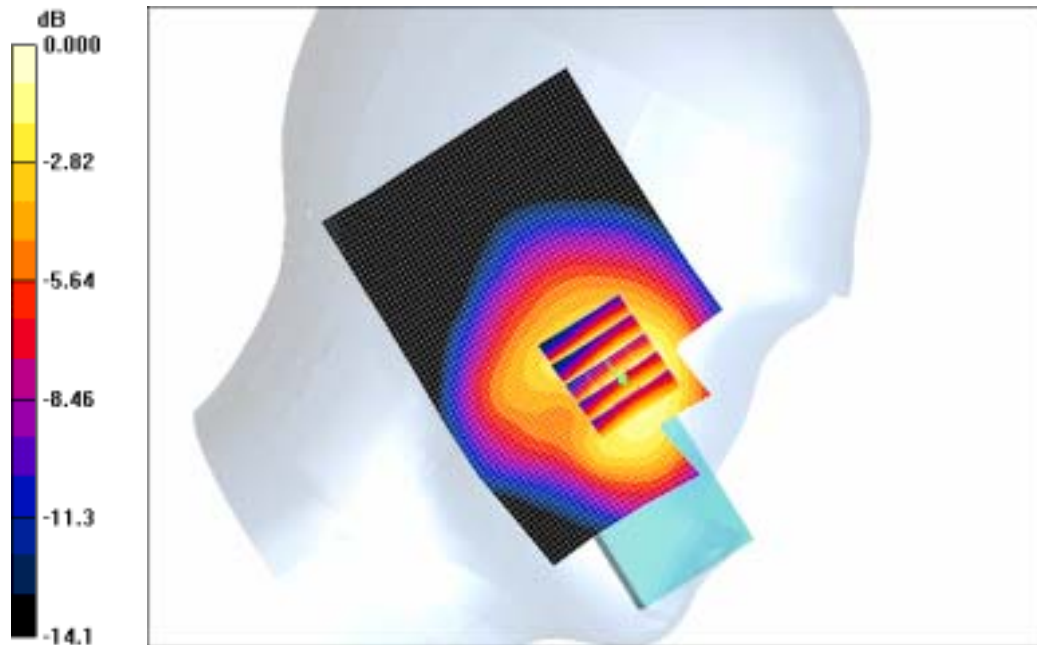
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.85 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.717 mW/g

Maximum value of SAR (measured) = 0.752 mW/g



0 dB = 0.752mW/g

SAMSUNG FCC ID : A3LSPHA420 835MHz CDMA Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 CDMA Left (Job No. : FC-155)

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

Procedure Notes: Meas.Ambient Temp(celsius)-21.9;Tissue Temp(celsius)-21.7;Test Date-23/Dec/2005[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; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- 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) = 0.086 mW/g

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

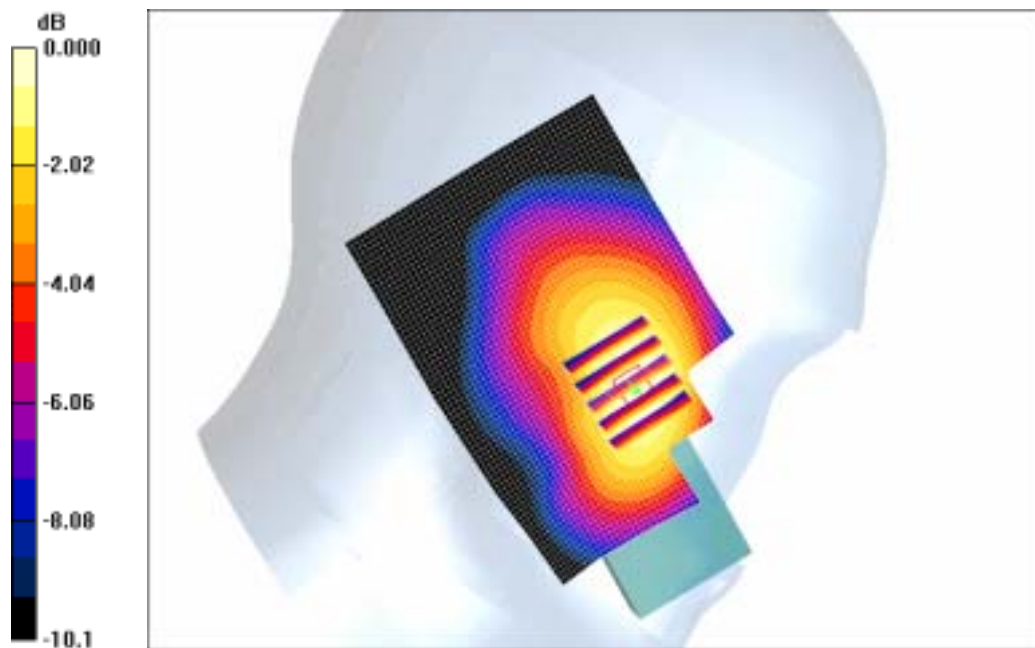
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.35 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.109 W/kg

SAR(1 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.087 mW/g



0 dB = 0.087mW/g

SAMSUNG FCC ID : A3LSPHA420 1900MHz PCS Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 PCS Right (Job No. : FC-155)

Procedure Name: Cheek/Touch, Ch.1175, Intenna, Bat. Standard

Procedure Notes: Meas.Ambient Temp(celsius)-22.8;Tissue Temp(celsius)-21.9;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- 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.1175, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.872 mW/g

Cheek/Touch, Ch.1175, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

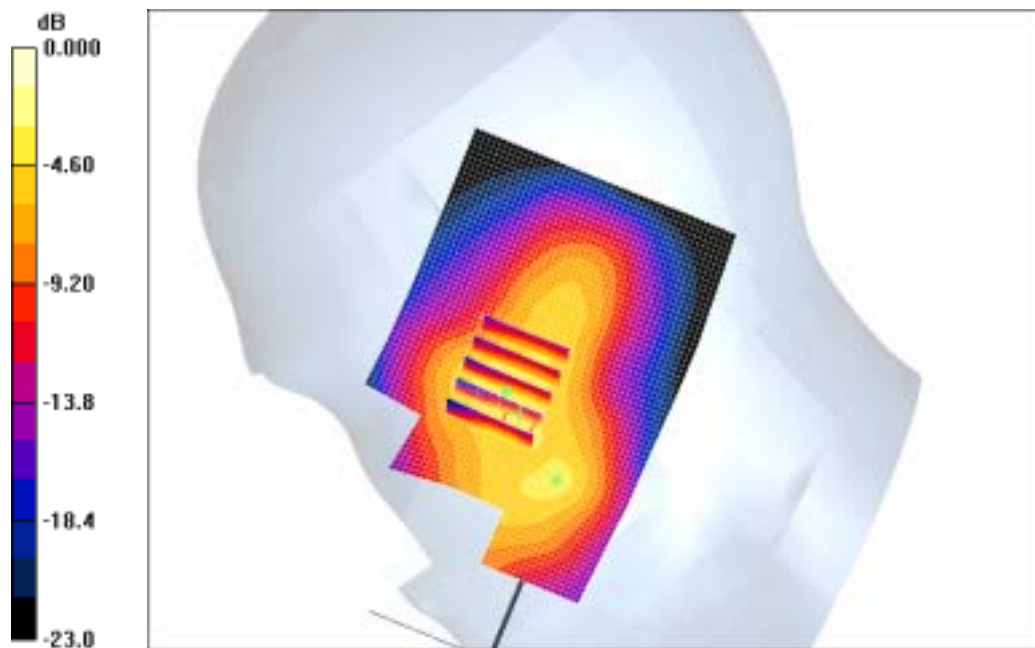
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = -0.189 dB

Peak SAR (extrapolated) = 2.76 W/kg

SAR(1 g) = 1.32 mW/g

Maximum value of SAR (measured) = 1.74 mW/g



0 dB = 1.74mW/g

SAMSUNG FCC ID : A3LSPHA420 1900MHz PCS Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 PCS Right (Job No. : FC-155)

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

Procedure Notes: Meas.Ambient Temp(celsius)-22.8;Tissue Temp(celsius)-21.9;Test Date-23/Dec/2005[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; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- 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.0600, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.06 mW/g

Ear/Tilt, Ch.0600, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement

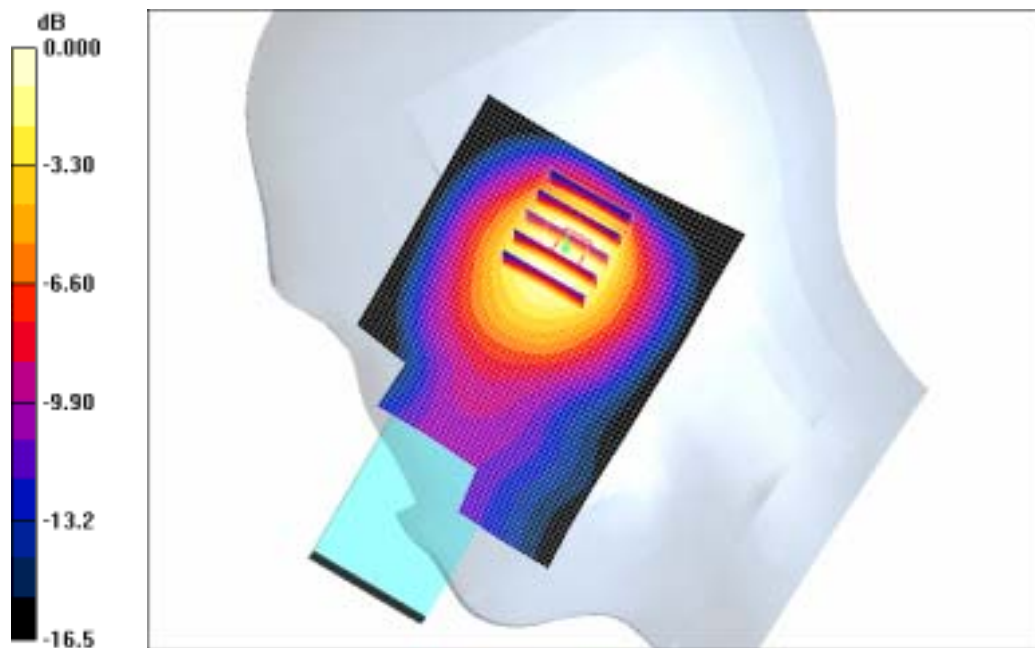
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.6 V/m; Power Drift = 0.148 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.796 mW/g

Maximum value of SAR (measured) = 0.863 mW/g



0 dB = 0.863mW/g

SAMSUNG FCC ID : A3LSPHA420 1900MHz PCS Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 PCS Left (Job No. : FC-155)

Procedure Name: Cheek/Touch, Ch.1175, Intenna, Bat. Standard

Procedure Notes: Meas.Ambient Temp(celsius)-22.8;Tissue Temp(celsius)-21.9;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek/Touch, Ch.1175, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.32 mW/g

Cheek/Touch, Ch.1175, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

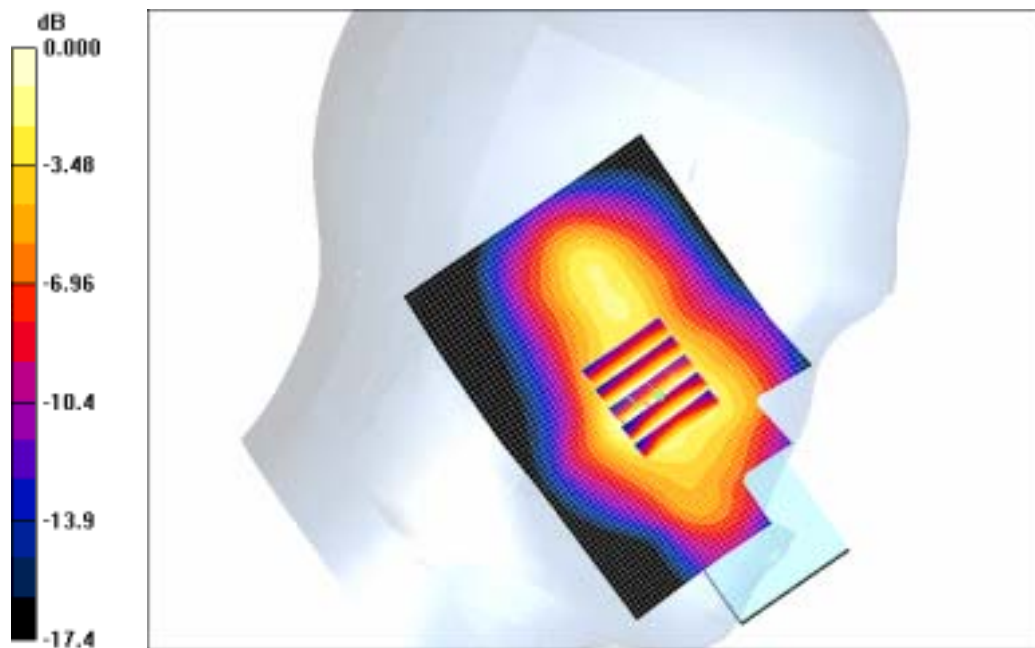
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 0.976 mW/g

Maximum value of SAR (measured) = 1.09 mW/g



0 dB = 1.09mW/g

SAMSUNG FCC ID : A3LSPHA420 1900MHz PCS Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 PCS Left (Job No. : FC-155)

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

Procedure Notes: Meas.Ambient Temp(celsius)-22.8;Tissue Temp(celsius)-21.9;Test Date-23/Dec/2005[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; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

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

Maximum value of SAR (interpolated) = 1.04 mW/g

Ear/Tilt, Ch.0600, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement

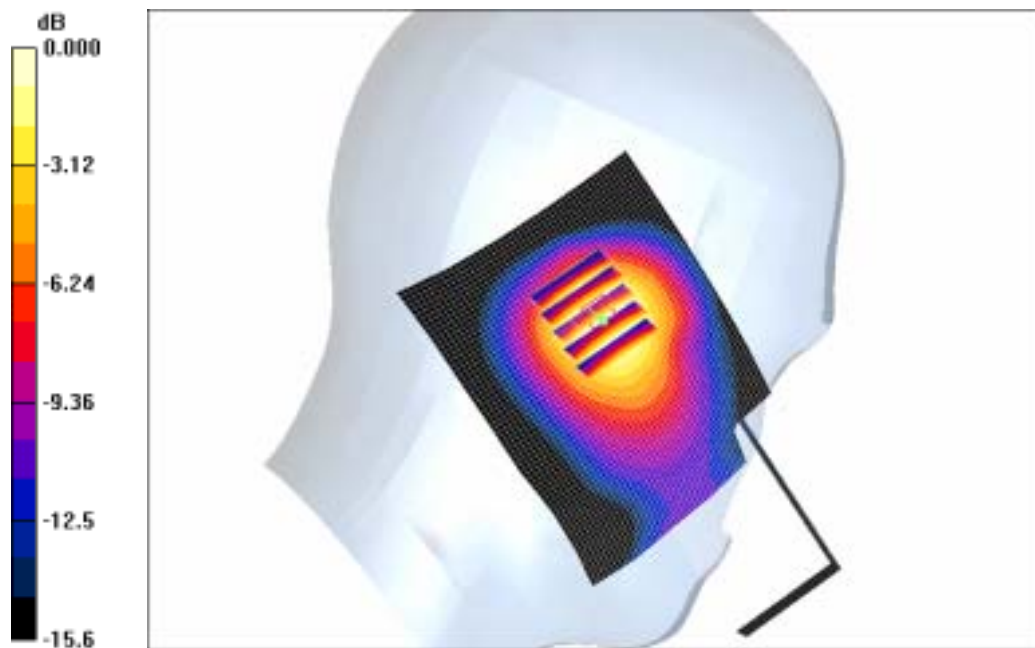
grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 19.7 V/m; Power Drift = 0.082 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.783 mW/g

Maximum value of SAR (measured) = 0.848 mW/g



0 dB = 0.848mW/g

SAMSUNG FCC ID : A3LSPHA420 835MHz AMPS Body SAR

DUT: SPH-A420(BODY); Serial: FC-155-I

Program Name: SPH-A420 CDMA Body (Job No. : FC-155)

Procedure Name: Body, Ch. 0799, Ant. Intenna, Bat. Standard

Procedure Notes: Meas.Ambient Temp(celsius)-21.7;Tissue Temp(celsius)-21.5;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: AMPS; Frequency: 848.97 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.97$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.82, 5.82, 5.82); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch. 0799, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.17 mW/g

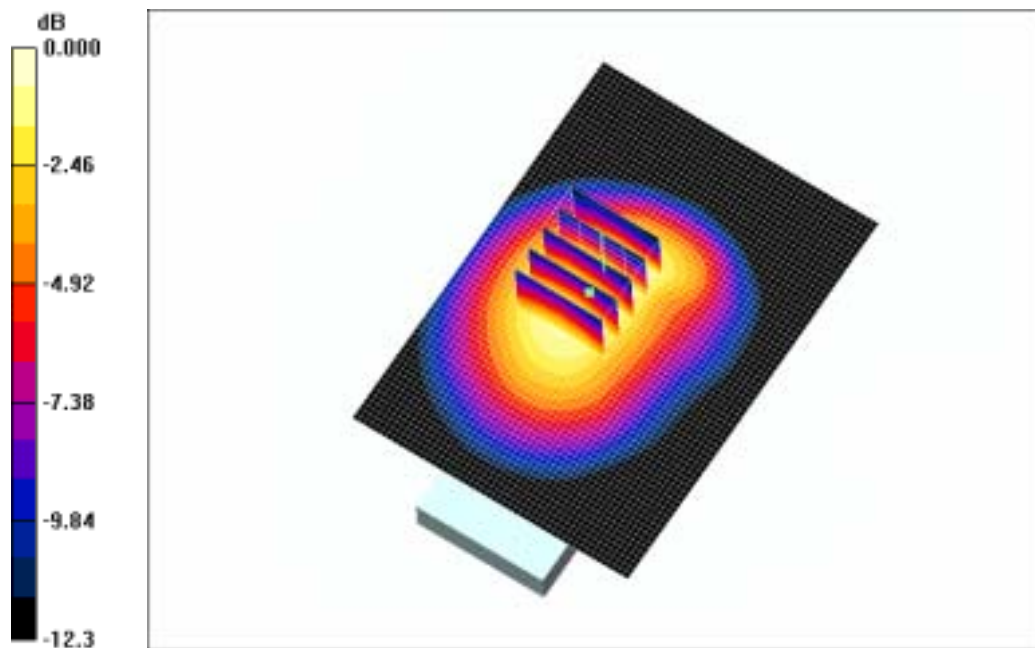
Body, Ch. 0799, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.8 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.968 mW/g

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



0 dB = 1.05mW/g

SAMSUNG FCC ID : A3LSPHA420 835MHz CDMA Body SAR

DUT: SPH-A420(BODY); Serial: FC-155-I

Program Name: SPH-A420 CDMA Body (Job No. : FC-155)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7; Ambient Temp-22.3; Test Date-23/Dec/2005 [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; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.82, 5.82, 5.82); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch. 0777, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.998 mW/g

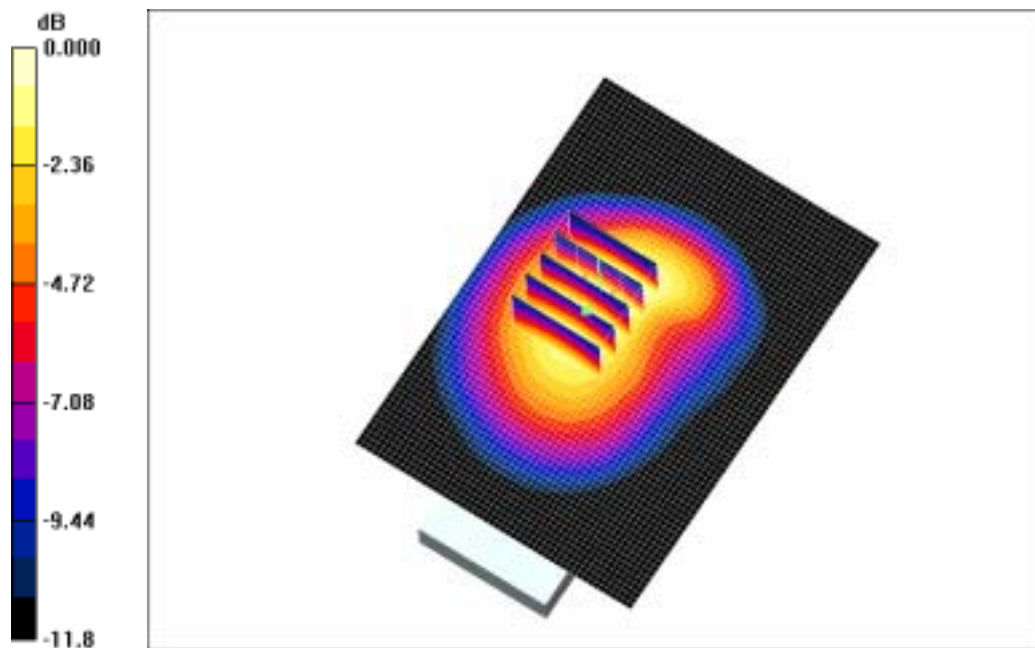
Body, Ch. 0777, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.0 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.923 mW/g

Maximum value of SAR (measured) = 0.999 mW/g



0 dB = 0.999mW/g

SAMSUNG FCC ID : A3LSPHA420 1900MHz PCS Body SAR

DUT: SPH-A420(BODY); Serial: FC-155-I

Program Name: SPH-A420 PCS Body (Job No. : FC-155)

Procedure Name: Body, Ch. 1175, Ant. Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)- 22.5; Tissue Temp(celsius)- 21.8; Test Date-23/Dec/2005 [OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.42, 4.42, 4.42); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch. 1175, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.259 mW/g

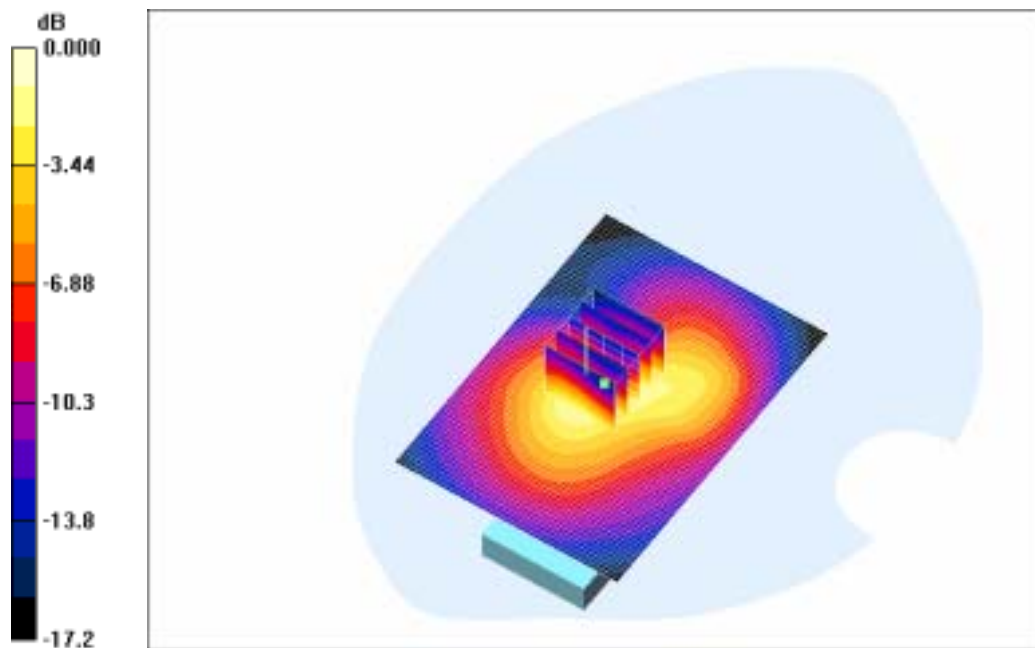
Body, Ch. 1175, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.57 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.247 mW/g



0 dB = 0.247mW/g

SAMSUNG FCC ID : A3LSPHA420 835MHz AMPS Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 AMPS Right (Job No. : FC-155)

Procedure Name: Cheek/Touch, Ch.0799, Intenna, Bat. Standard

Procedure Notes: Meas.Ambient Temp(celsius)-21.7;Tissue Temp(celsius)-21.5;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: AMPS; Frequency: 848.97 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.97$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- 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.0799, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.939 mW/g

Cheek/Touch, Ch.0799, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 5.52 V/m; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.839 mW/g

Maximum value of SAR (measured) = 0.916 mW/g



SAMSUNG FCC ID : A3LSPHA420 835MHz CDMA Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 CDMA Right (Job No. : FC-155)

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

Procedure Notes: Meas.Ambient Temp(celsius)-21.9;Tissue Temp(celsius)-21.7;Test Date-23/Dec/2005[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; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- 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.0777, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.878 mW/g

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

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

Reference Value = 4.75 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.795 mW/g

Maximum value of SAR (measured) = 0.845 mW/g



SAMSUNG FCC ID : A3LSPHA420 1900MHz PCS Head SAR

DUT: SPH-A420; Serial: FC-155-I

Program Name: SPH-A420 PCS Right (Job No. : FC-155)

Procedure Name: Cheek/Touch, Ch.1175, Intenna, Bat. Standard

Procedure Notes: Meas.Ambient Temp(celsius)-22.8;Tissue Temp(celsius)-21.9;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.92, 4.92, 4.92); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- 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.1175, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.872 mW/g

Cheek/Touch, Ch.1175, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 12.5 V/m; Power Drift = -0.189 dB

Peak SAR (extrapolated) = 2.76 W/kg

SAR(1 g) = 1.32 mW/g

Maximum value of SAR (measured) = 1.74 mW/g



SAMSUNG FCC ID : A3LSGHA420 835MHz AMPS Body SAR

DUT: SPH-A420(BODY); Serial: FC-155-I

Program Name: SPH-A420 CDMA Body (Job No. : FC-155)

Procedure Name: Body, Ch. 0799, Ant. Intenna, Bat. Standard

Procedure Notes: Meas.Ambient Temp(celsius)-21.7;Tissue Temp(celsius)-21.5;Test Date-23/Dec/2005[OET Bulletin 65-Supplement C, July 2001]

Communication System: AMPS; Frequency: 848.97 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 848.97$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.82, 5.82, 5.82); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch. 0799, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.17 mW/g

Body, Ch. 0799, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.8 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.968 mW/g

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



SAMSUNG FCC ID : A3LSGHA420 835MHz CDMA Body SAR

DUT: SPH-A420(BODY); Serial: FC-155-I

Program Name: SPH-A420 CDMA Body (Job No. : FC-155)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7; Ambient Temp-22.3; Test Date-23/Dec/2005 [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; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.82, 5.82, 5.82); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch. 0777, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.998 mW/g

Body, Ch. 0777, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.0 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.923 mW/g

Maximum value of SAR (measured) = 0.999 mW/g



SAMSUNG FCC ID : A3LSGHA420 1900MHz PCS Body SAR

DUT: SPH-A420(BODY); Serial: FC-155-I

Program Name: SPH-A420 PCS Body (Job No. : FC-155)

Procedure Name: Body, Ch. 1175, Ant. Intenna, Bat. Standard

Procedure Notes: Meas. Ambient Temp(celsius)- 22.5; Tissue Temp(celsius)- 21.8; Test Date-23/Dec/2005 [OET Bulletin 65-Supplement C, July 2001]

Communication System: PCS; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.42, 4.42, 4.42); Calibrated: 2005-05-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn670; Calibrated: 2005-04-05
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body, Ch. 1175, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.259 mW/g

Body, Ch. 1175, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.57 V/m; Power Drift = 0.093 dB

Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.247 mW/g

