

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz AMPS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 AMPS Right (Job No.: FC-093)

Procedure Name: Cheek/Touch, Ch.0991, Ant.intenna, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: AMPS; Frequency: 824.04 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 824.04$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek/Touch, Ch.0991, Ant.intenna, Bat.Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.824 mW/g

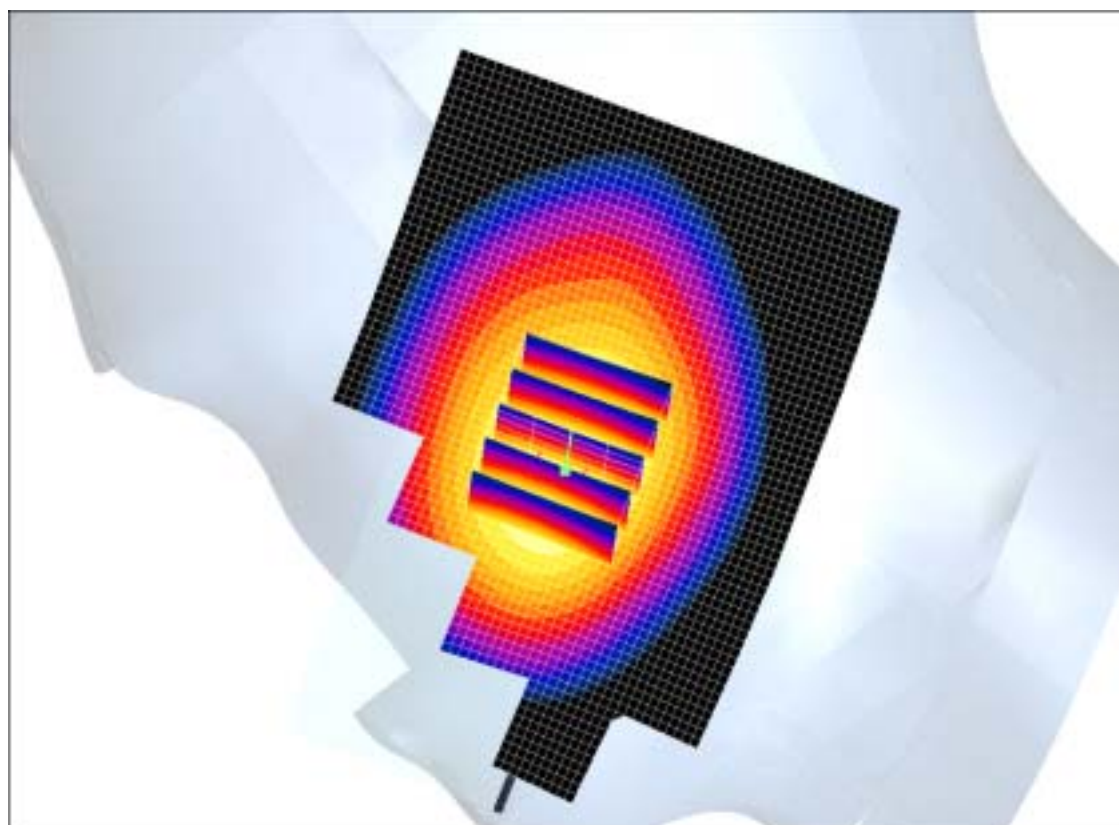
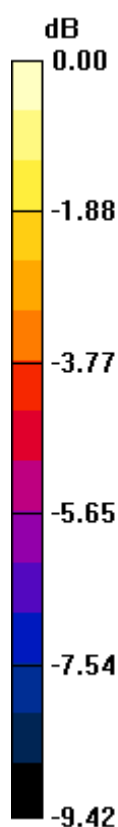
Cheek/Touch, Ch.0991, Ant.intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.80 V/m; Power Drift = -0.146 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.777 mW/g

Maximum value of SAR (measured) = 0.839 mW/g



0 dB = 0.839mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz AMPS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 AMPS Right (Job No.: FC-093)

Procedure Name: Ear/Tilt, Ch.0383, Ant.intenna, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[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; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Ear/Tilt, Ch.0383, Ant.intenna, Bat.Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.190 mW/g

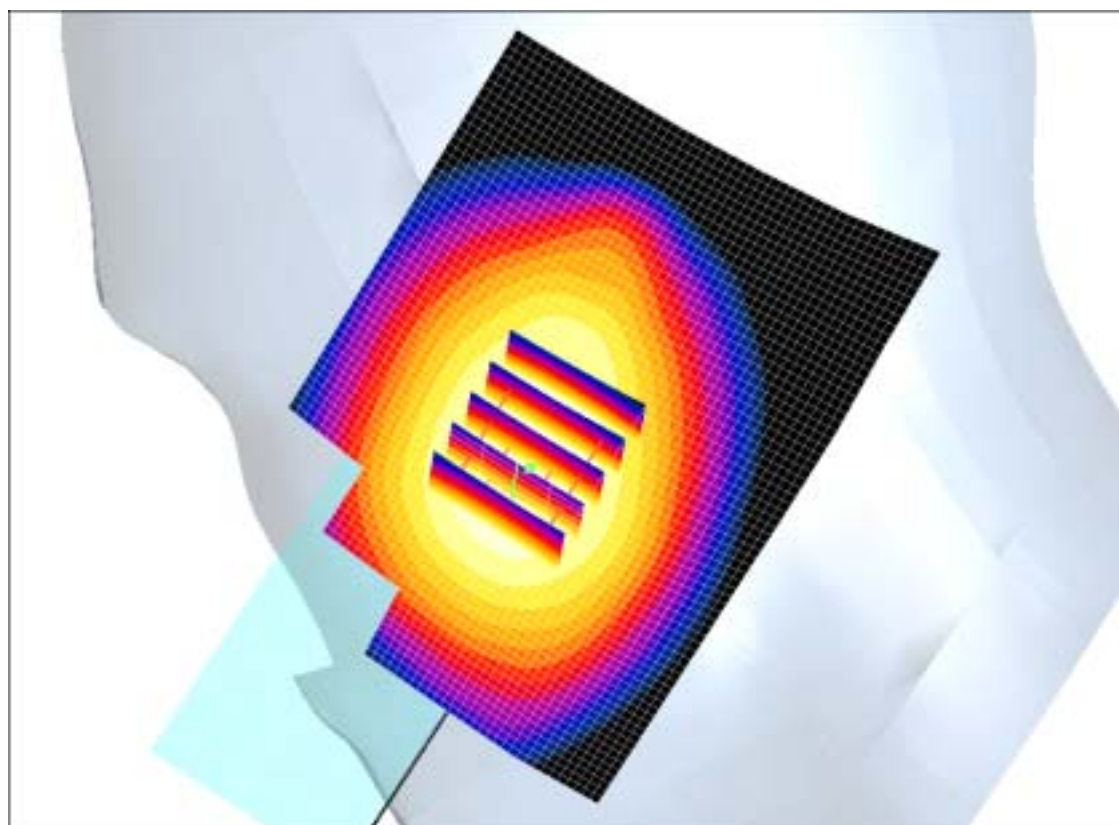
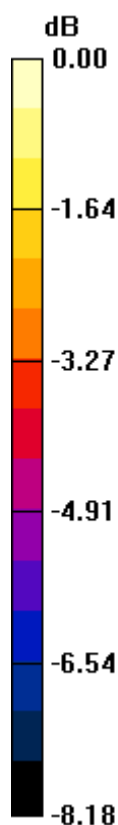
Ear/Tilt, Ch.0383, Ant.intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.42 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 0.223 W/kg

SAR(1 g) = 0.177 mW/g

Maximum value of SAR (measured) = 0.185 mW/g



0 dB = 0.185mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz AMPS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 AMPS Left (Job No.: FC-093)

Procedure Name: Cheek/Touch, Ch.0799, Ant.in, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[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; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek/Touch, Ch.0799, Ant.in, Bat.Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.757 mW/g

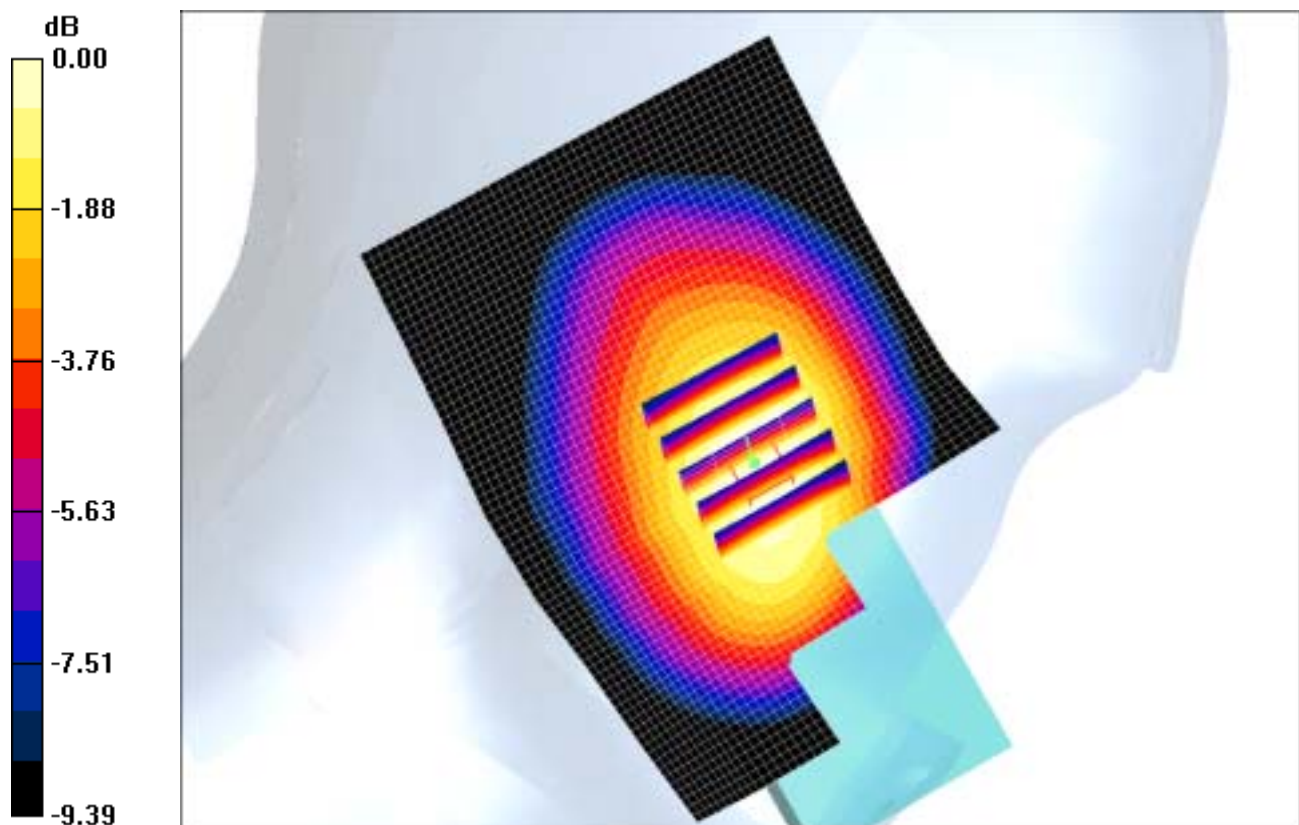
Cheek/Touch, Ch.0799, Ant.in, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.1 V/m; Power Drift = -0.123 dB

Peak SAR (extrapolated) = 0.913 W/kg

SAR(1 g) = 0.681 mW/g

Maximum value of SAR (measured) = 0.712 mW/g



0 dB = 0.712mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz AMPS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 AMPS Left (Job No.: FC-093)

Procedure Name: Ear/Tilt, Ch.0383, Ant.intenna, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[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; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Ear/Tilt, Ch.0383, Ant.intenna, Bat.Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.180 mW/g

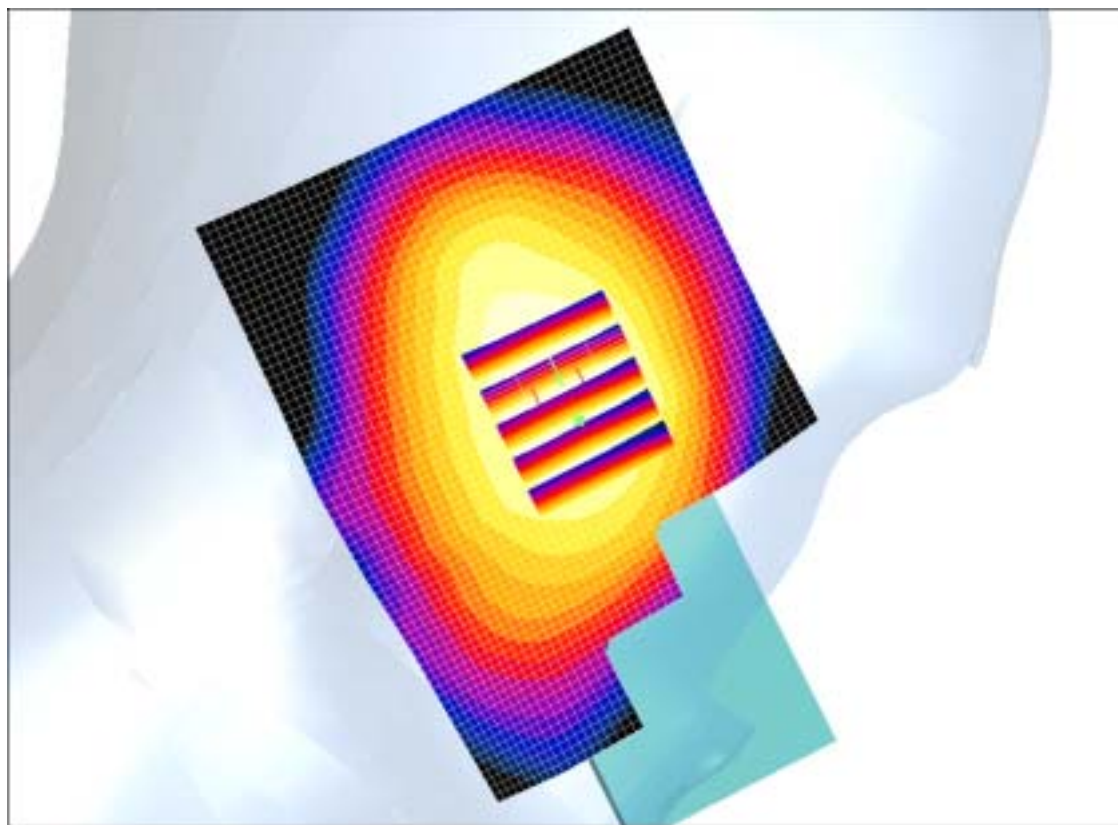
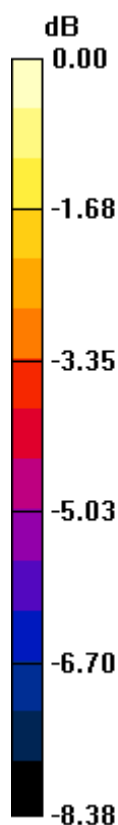
Ear/Tilt, Ch.0383, Ant.intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.49 V/m; Power Drift = -0.095 dB

Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.169 mW/g

Maximum value of SAR (measured) = 0.177 mW/g



0 dB = 0.177mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz CDMA Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 CDMA Right (Job No.: FC-093)

Procedure Name: Cheek/Touch, Ch.0777, Ant.intenna, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[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; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 0.617 mW/g

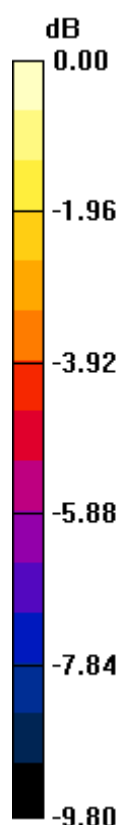
Cheek/Touch, Ch.0777, Ant.intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.36 V/m; Power Drift = 0.189 dB

Peak SAR (extrapolated) = 0.807 W/kg

SAR(1 g) = 0.579 mW/g

Maximum value of SAR (measured) = 0.621 mW/g



0 dB = 0.621mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz CDMA Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 CDMA Right (Job No.: FC-093)

Procedure Name: Ear/Tilt, Ch.0363, Ant.intenna, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 835.89 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 835.89$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Ear/Tilt, Ch.0363, Ant.intenna, Bat.Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.147 mW/g

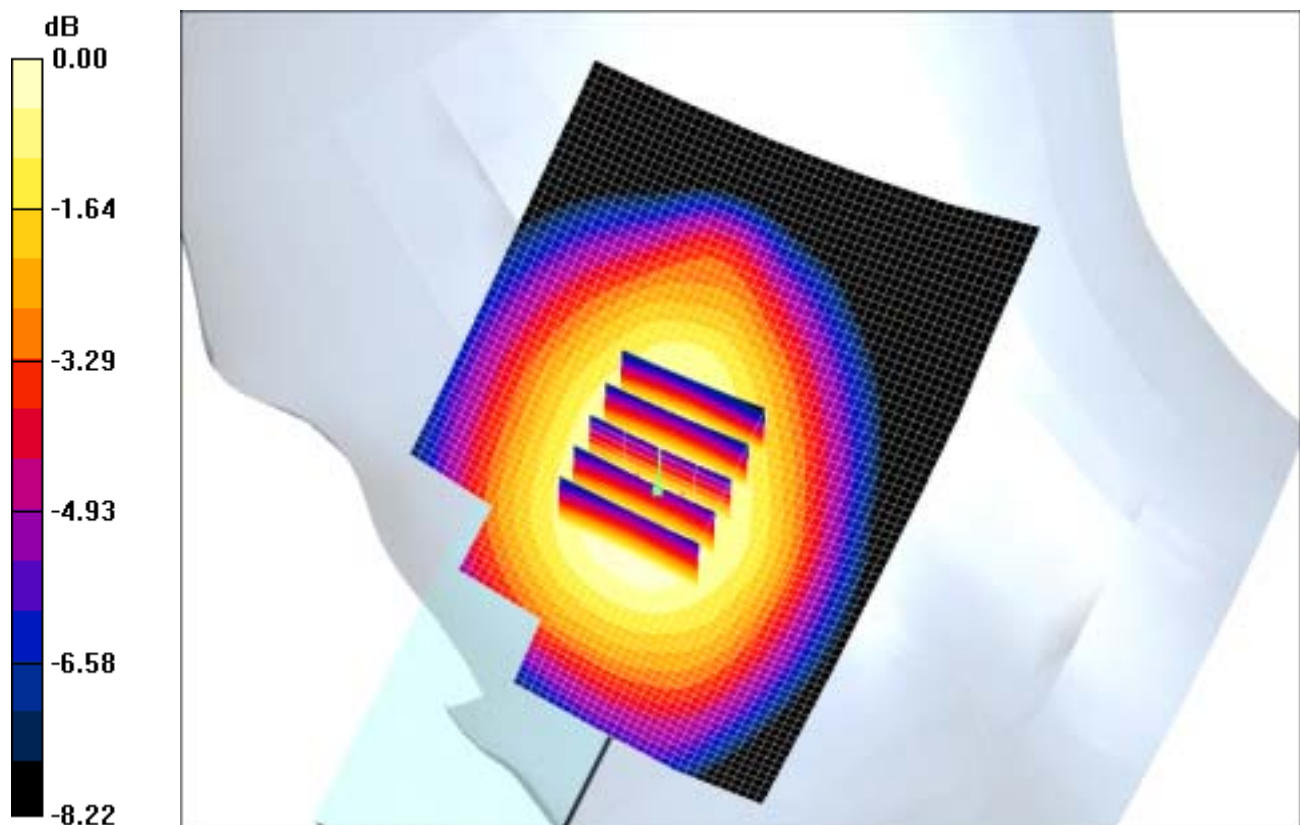
Ear/Tilt, Ch.0363, Ant.intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.22 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.137 mW/g

Maximum value of SAR (measured) = 0.144 mW/g



0 dB = 0.144mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz CDMA Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 CDMA Left (Job No.: FC-093)

Procedure Name: Cheek/Touch, Ch.0777, Ant.intenna, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[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; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 0.639 mW/g

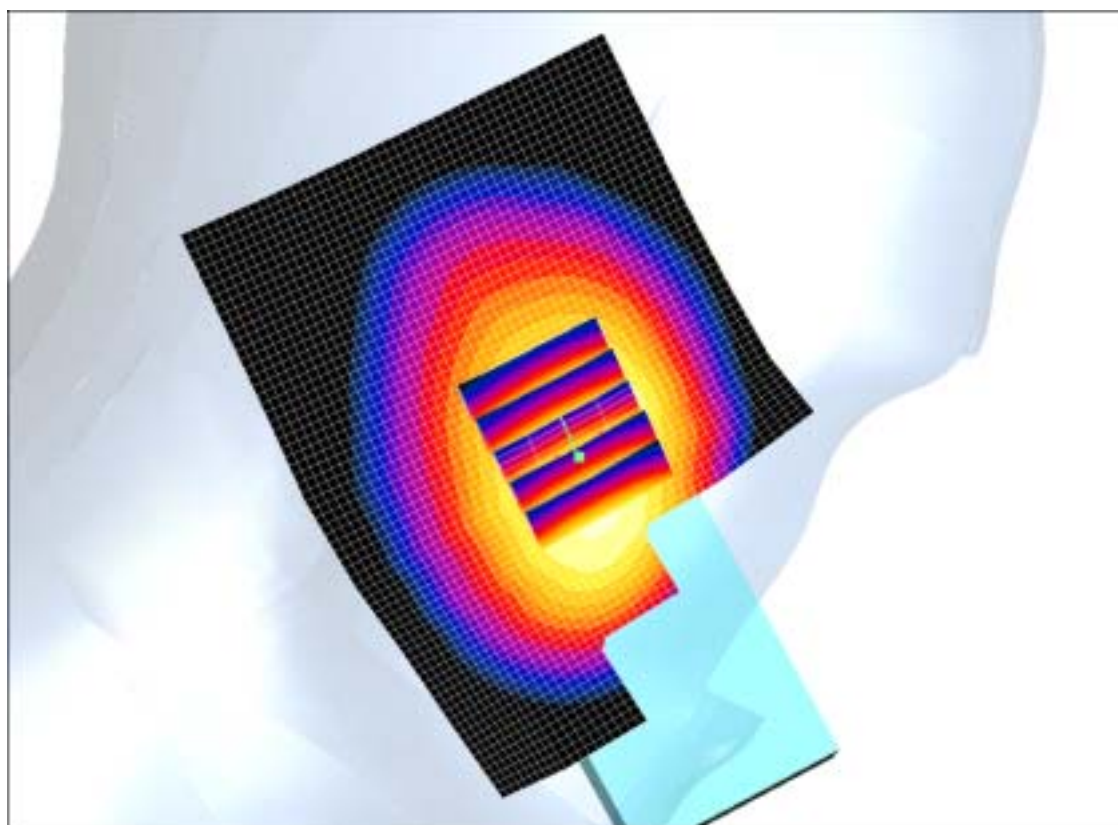
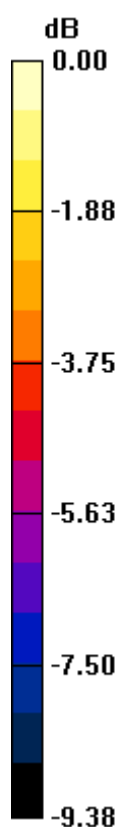
Cheek/Touch, Ch.0777, Ant.intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.59 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.761 W/kg

SAR(1 g) = 0.570 mW/g

Maximum value of SAR (measured) = 0.594 mW/g



0 dB = 0.594mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz CDMA Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 CDMA Left (Job No.: FC-093)

Procedure Name: Ear/Tilt, Ch.0363, Ant.intenna, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: CDMA; Frequency: 835.89 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 835.89$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Ear/Tilt, Ch.0363, Ant.intenna, Bat.Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.141 mW/g

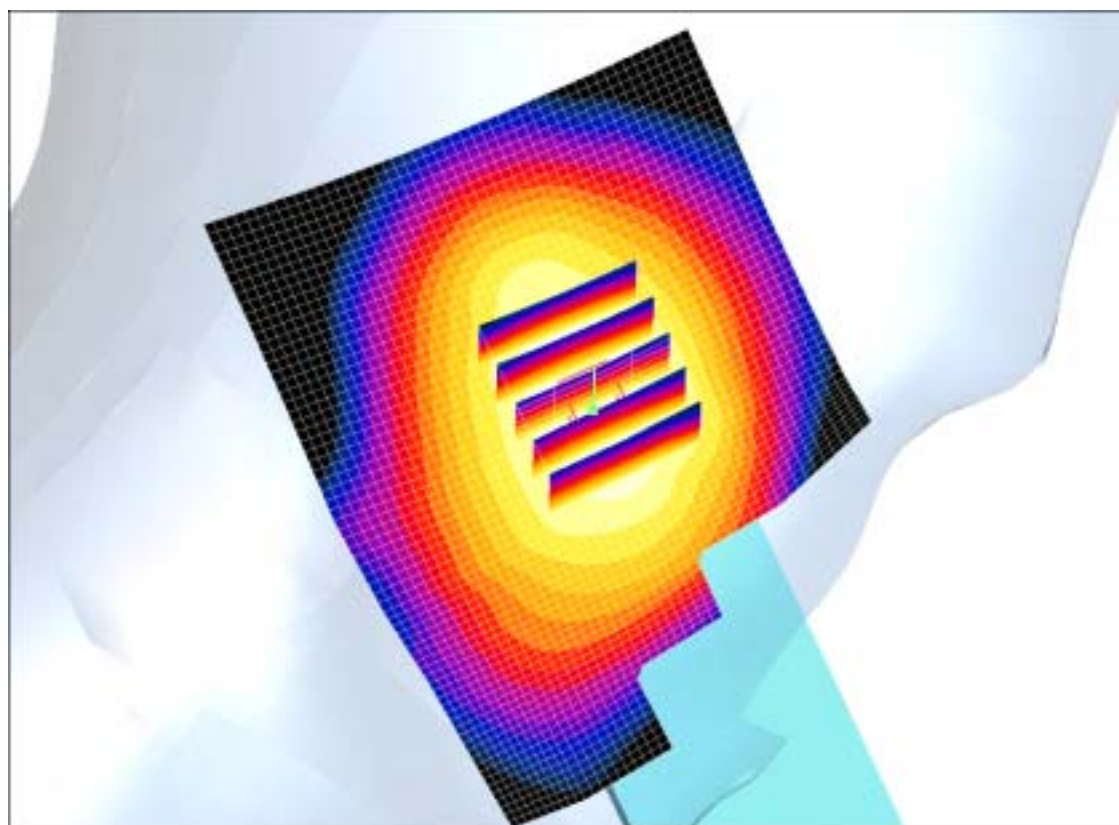
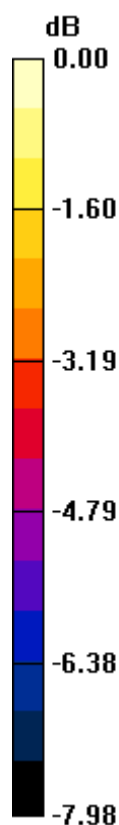
Ear/Tilt, Ch.0363, Ant.intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.56 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.136 mW/g

Maximum value of SAR (measured) = 0.143 mW/g



0 dB = 0.143mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 1900MHz PCS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 PCS Right (Job No. : FC-093)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-2/Jul/2005[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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ 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 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek/Touch, Ch.0025, Intenna, Bat. Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 1.32 mW/g

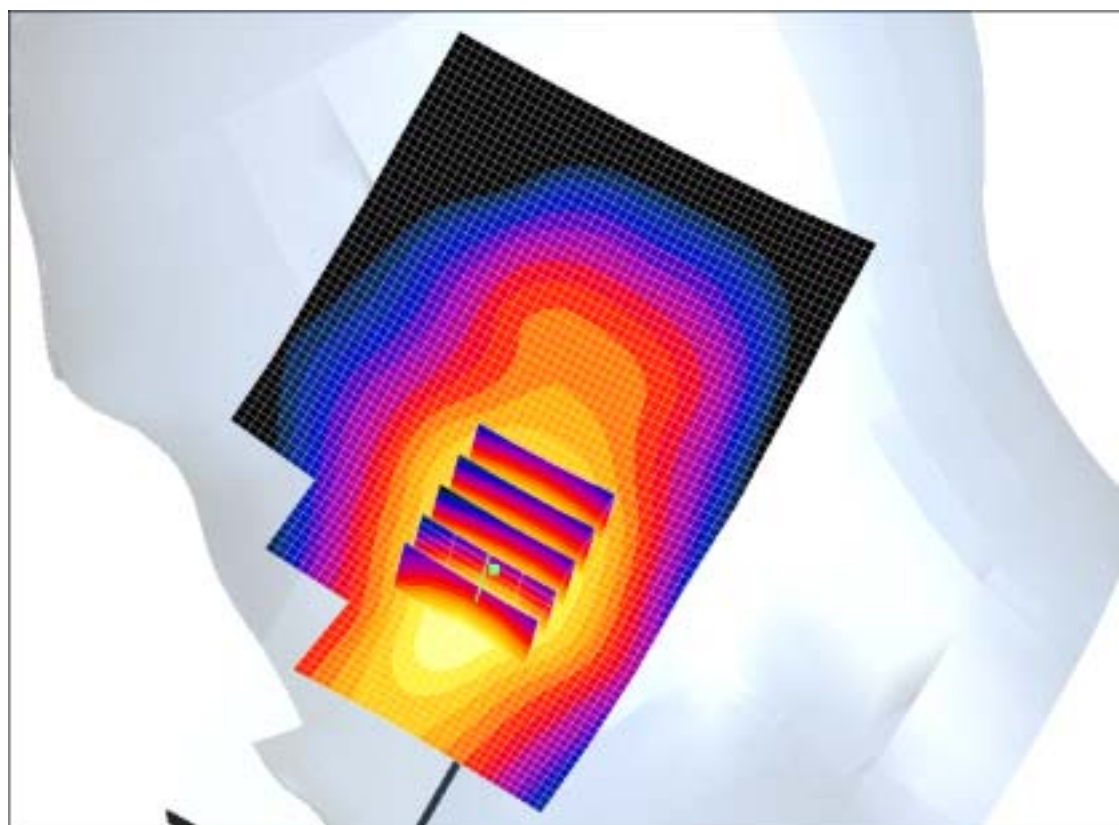
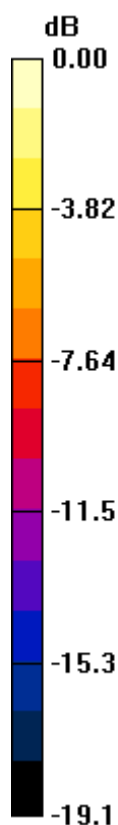
Cheek/Touch, Ch.0025, Intenna, Bat. Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.78 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.29 mW/g

Maximum value of SAR (measured) = 1.41 mW/g



0 dB = 1.41mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 1900MHz PCS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 PCS Right (Job No. : FC-093)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-2/Jul/2005[OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ 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 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Ear/Tilt, Ch.0600, Intenna, Bat. Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.375 mW/g

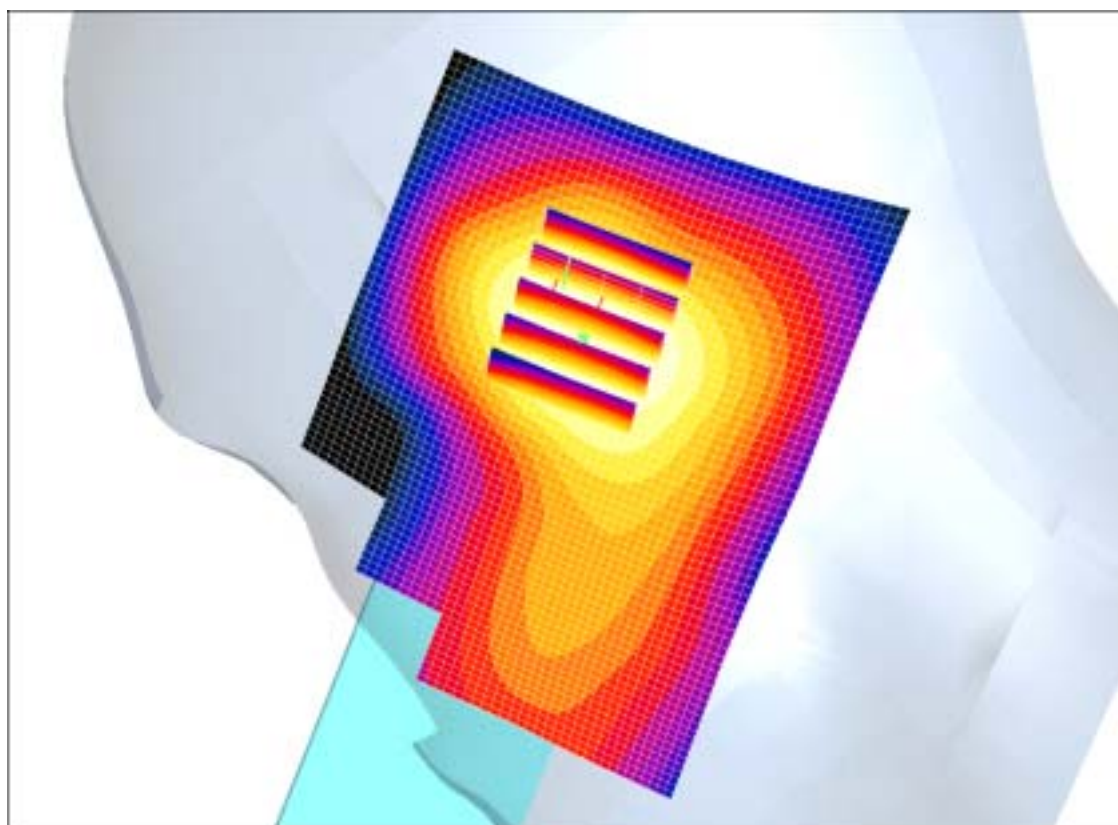
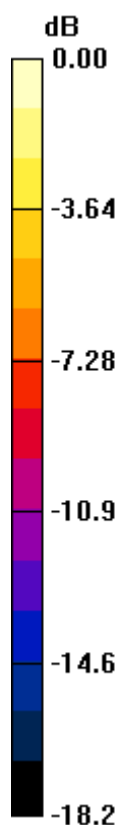
Ear/Tilt, Ch.0600, Intenna, Bat. Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.5 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 0.413 W/kg

SAR(1 g) = 0.281 mW/g

Maximum value of SAR (measured) = 0.300 mW/g



0 dB = 0.300mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 1900MHz PCS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 PCS Left (Job No. : FC-093)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-2/Jul/2005[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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ 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, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek/Touch, Ch.0025, Intenna, Bat. Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.972 mW/g

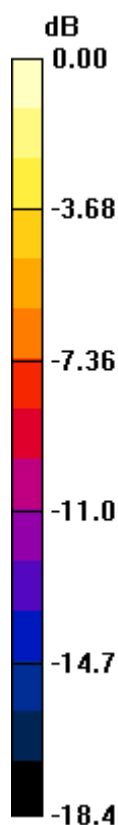
Cheek/Touch, Ch.0025, Intenna, Bat. Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 1.06 mW/g

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



0 dB = 1.06mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 1900MHz PCS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 PCS Left (Job No. : FC-093)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-2/Jul/2005[OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ 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, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Ear/Tilt, Ch.0600, Intenna, Bat. Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.372 mW/g

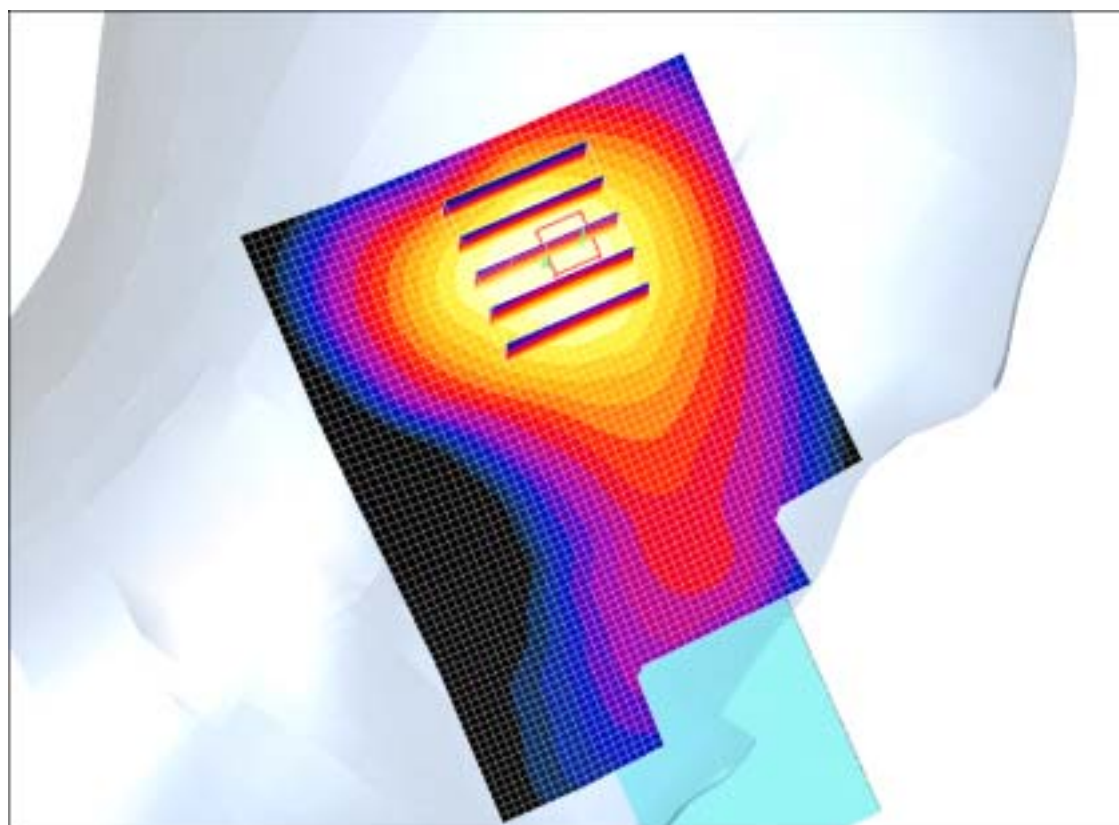
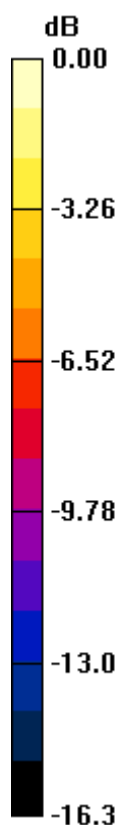
Ear/Tilt, Ch.0600, Intenna, Bat. Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.6 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 0.475 W/kg

SAR(1 g) = 0.307 mW/g

Maximum value of SAR (measured) = 0.332 mW/g



0 dB = 0.332mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz AMPS Body SAR

DUT: SPH-A840 (Body); Serial: FC-093-A

Program Name: SPH-A840 AMPS Body (Job No. : FC-093)

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

Procedure Notes: Meas. Tissue Temp(celsius)- 21.8; Test Date-01/Jul/2004 [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; $\sigma = 0.96$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.28, 6.28, 6.28); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 1.01 mW/g

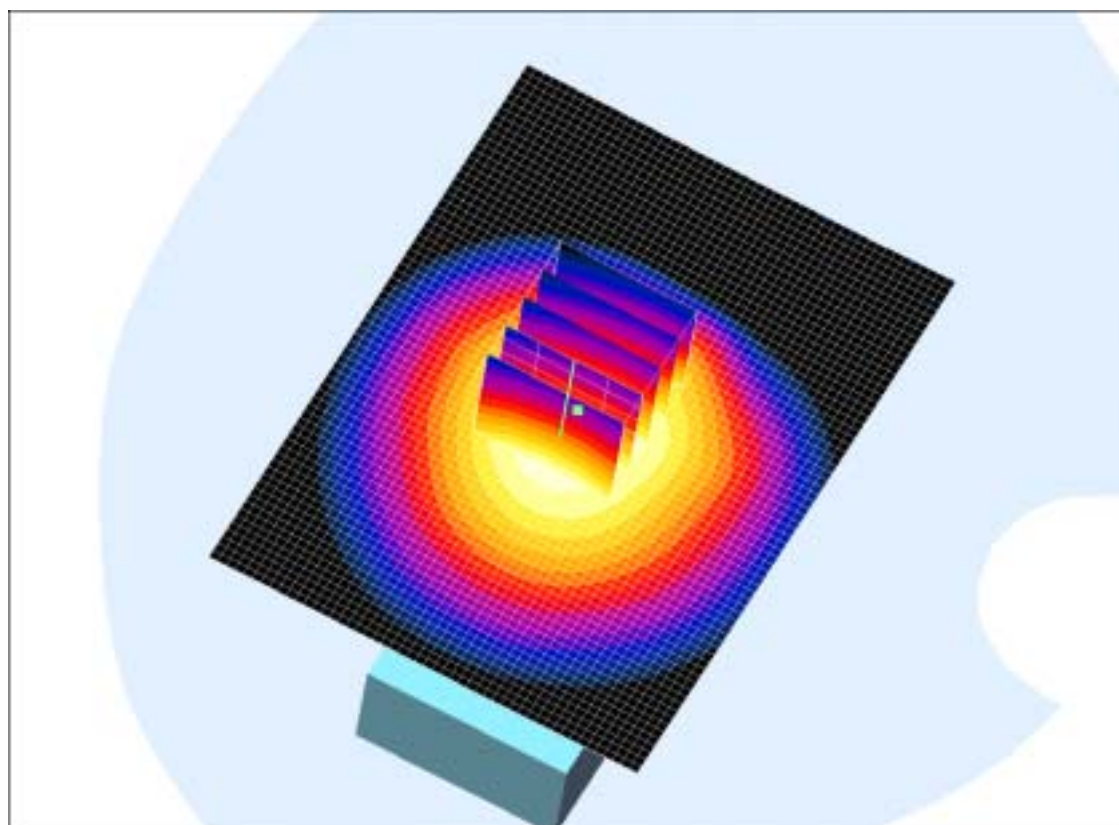
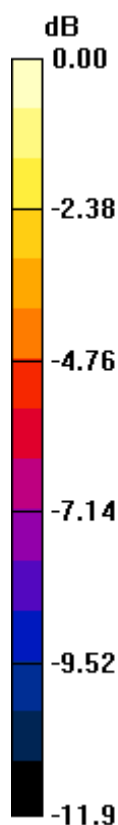
Body, Ch. 0799, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.9 V/m; Power Drift = -0.150 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.849 mW/g

Maximum value of SAR (measured) = 0.908 mW/g



0 dB = 0.908mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz CDMA Body SAR

DUT: SPH-A840 (Body); Serial: FC-093-A

Program Name: SPH-A840 CDMA Body (Job No. : FC-093)

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

Procedure Notes: Meas. Tissue Temp(celsius)- 21.8; Test Date-01/Jul/2004 [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; $\sigma = 0.96$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.28, 6.28, 6.28); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 0.819 mW/g

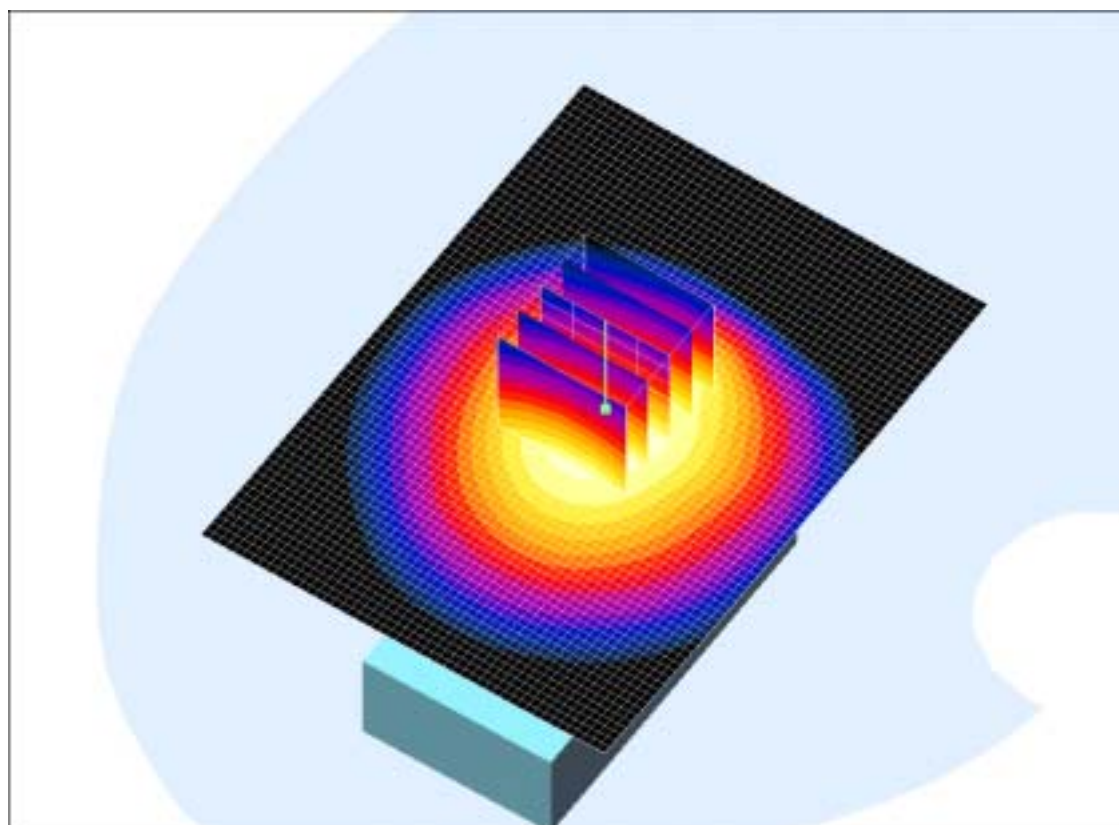
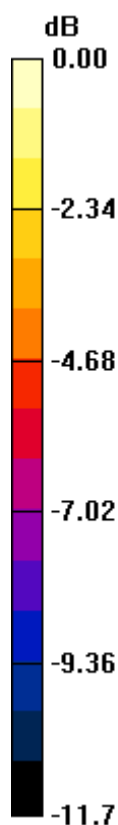
Body, Ch. 0777, Ant. In, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.3 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.717 mW/g

Maximum value of SAR (measured) = 0.762 mW/g



0 dB = 0.762mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 1900MHz PCS Body SAR

DUT: SPH-A840(Body); Serial: FC-093-A

Program Name: SPH-A840 PCS Body (Job No. : FC-093)

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

Procedure Notes: Meas.Tissue Temp(celsius)-22.1;Test Date-2/Jul/2005[OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $\sigma = 1.5$ mho/m, $\epsilon_r = 51.5161$; $\rho = 1000$ 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 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body, Ch. 0025, Ant. Intenna, Bat. Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.350 mW/g

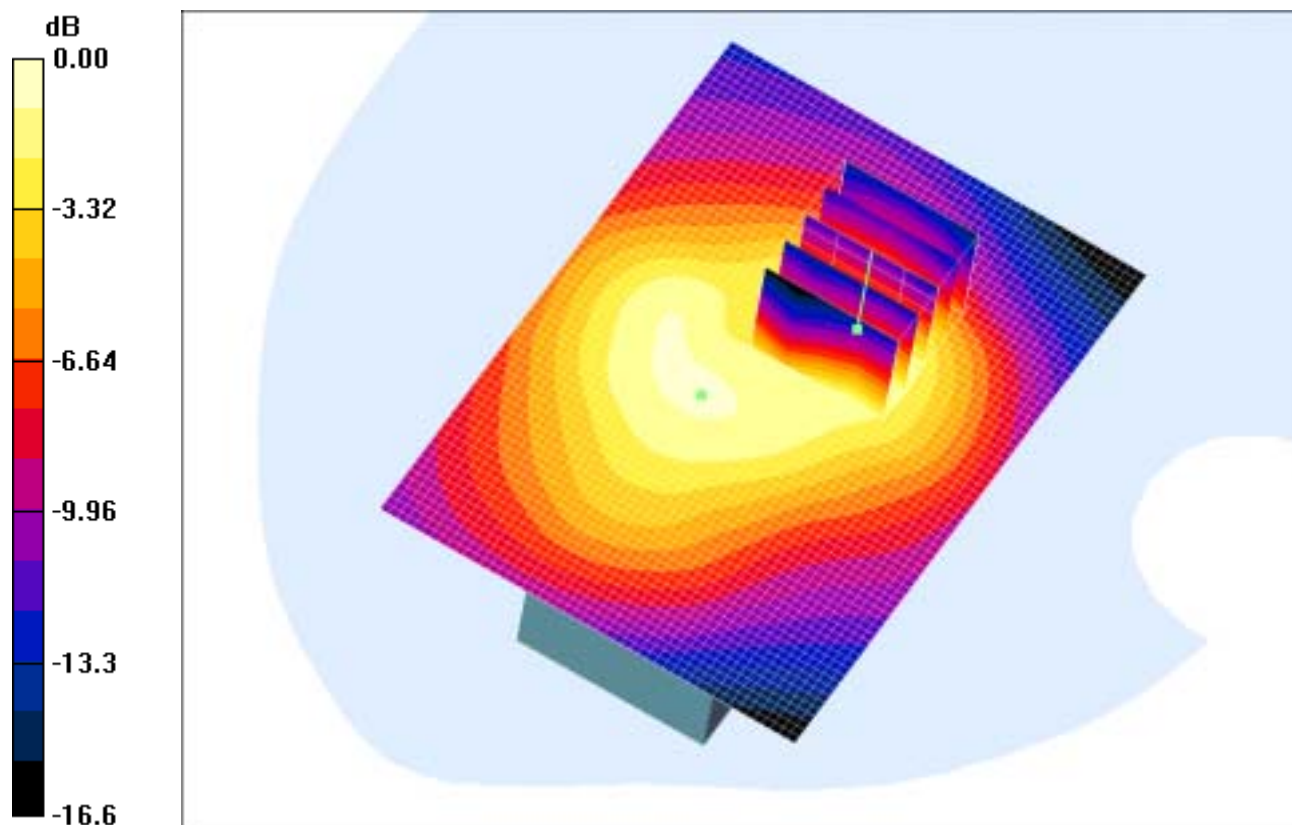
Body, Ch. 0025, Ant. Intenna, Bat. Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.5 V/m; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.292 mW/g

Maximum value of SAR (measured) = 0.316 mW/g



0 dB = 0.316mW/g

SAMSUNG FCC ID : A3LSPHA840 -- 835MHz AMPS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 AMPS Right (Job No.: FC-093)

Procedure Name: Cheek/Touch, Ch.0991, Ant.intenna, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[OET Bulletin 65-Supplement C, July 2001]

Communication System: AMPS; Frequency: 824.04 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 824.04$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek/Touch, Ch.0991, Ant.intenna, Bat.Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.824 mW/g

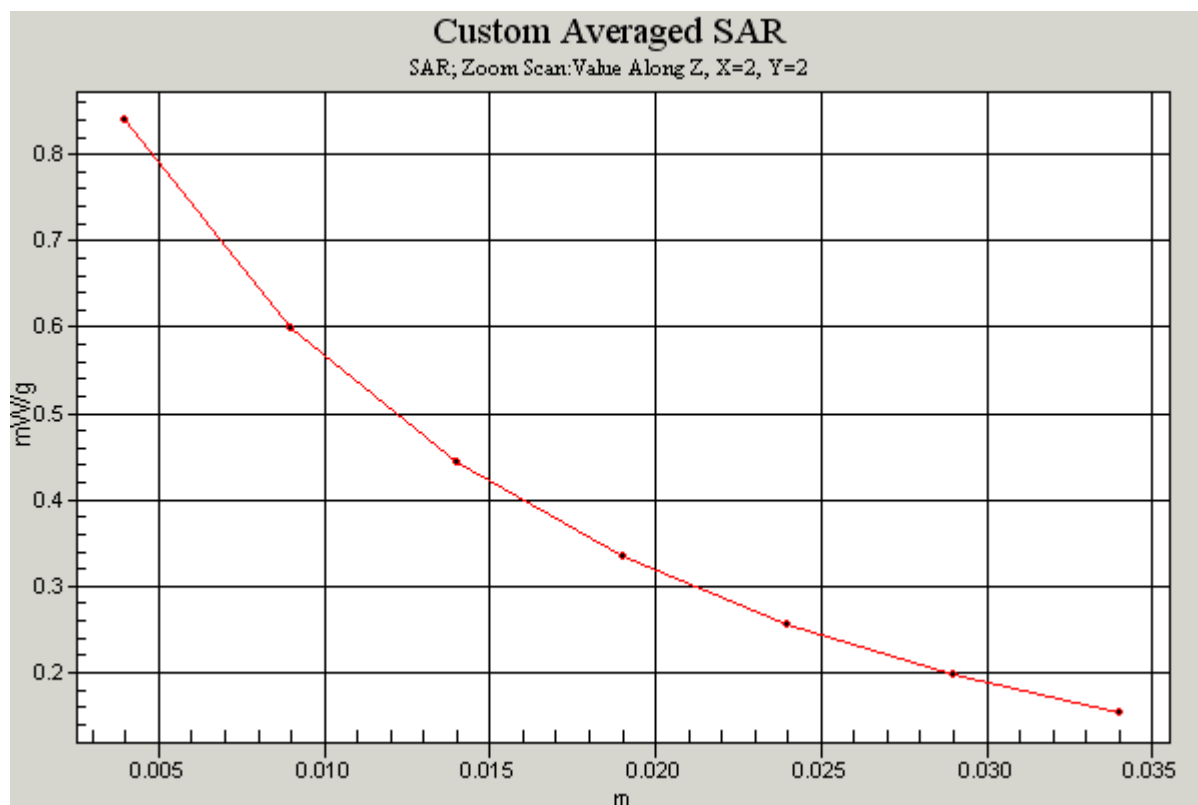
Cheek/Touch, Ch.0991, Ant.intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.80 V/m; Power Drift = -0.146 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.777 mW/g

Maximum value of SAR (measured) = 0.839 mW/g



SAMSUNG FCC ID : A3LSPHA840 -- 835MHz CDMA Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 CDMA Right (Job No.: FC-093)

Procedure Name: Cheek/Touch, Ch.0777, Ant.intenna, Bat.Extended

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-01/Jul/2004[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; $\sigma = 0.9$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.33, 6.33, 6.33); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 0.617 mW/g

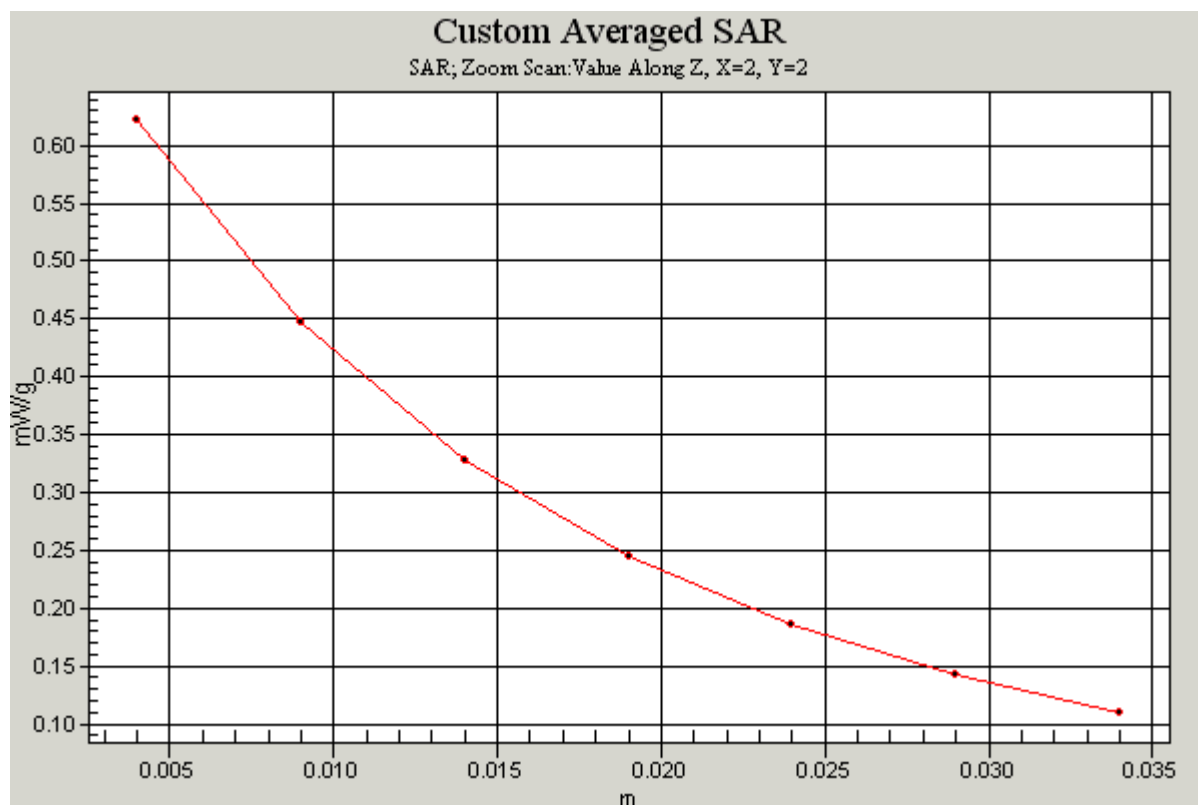
Cheek/Touch, Ch.0777, Ant.intenna, Bat.Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.36 V/m; Power Drift = 0.189 dB

Peak SAR (extrapolated) = 0.807 W/kg

SAR(1 g) = 0.579 mW/g

Maximum value of SAR (measured) = 0.621 mW/g



SAMSUNG FCC ID : A3LSPHA840 -- 1900MHz PCS Head SAR

DUT: SPH-A840; Serial: FC-093-A

Program Name: SPH-A840 PCS Right (Job No. : FC-093)

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

Procedure Notes: Meas.Tissue Temp(celsius)-21.7;Test Date-2/Jul/2005[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; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ 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 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek/Touch, Ch.0025, Intenna, Bat. Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

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

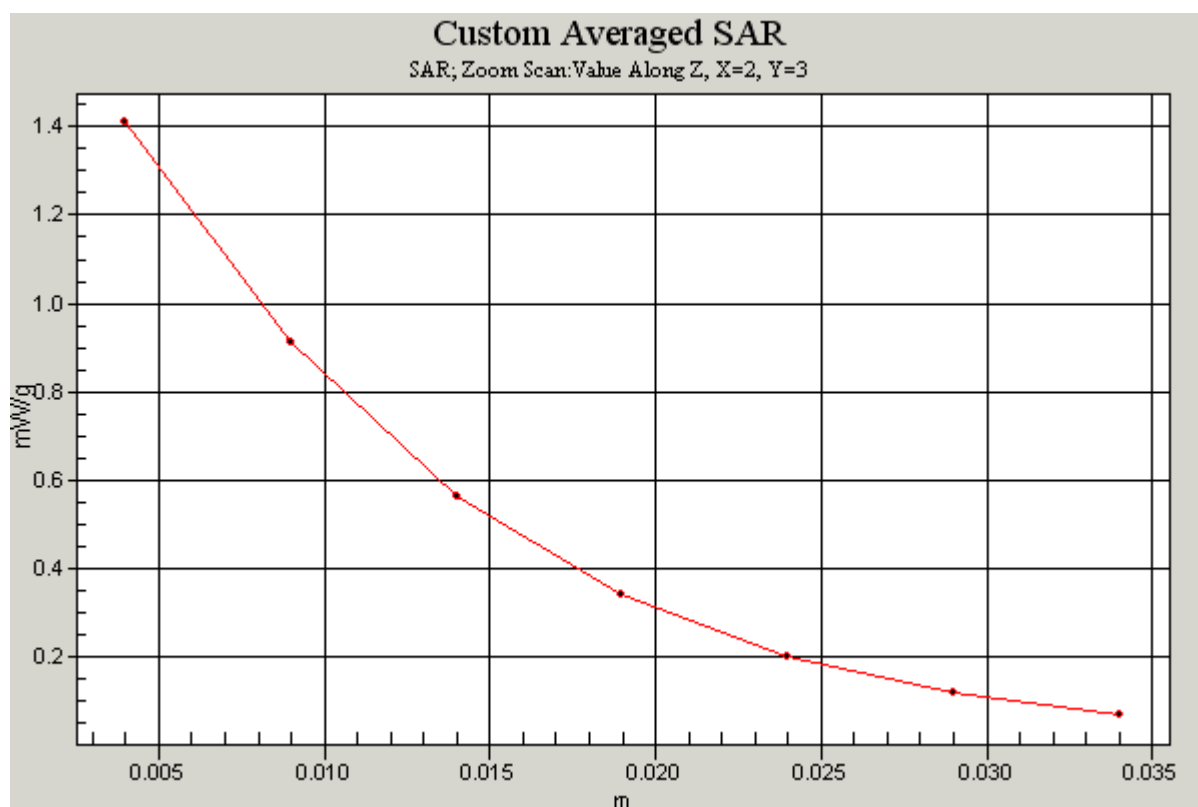
Cheek/Touch, Ch.0025, Intenna, Bat. Extended/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.78 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.29 mW/g

Maximum value of SAR (measured) = 1.41 mW/g



SAMSUNG FCC ID : A3LSPHA840 -- 835MHz AMPS Body SAR

DUT: SPH-A840 (Body); Serial: FC-093-A

Program Name: SPH-A840 AMPS Body (Job No. : FC-093)

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

Procedure Notes: Meas. Tissue Temp(celsius)- 21.8; Test Date-01/Jul/2004 [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; $\sigma = 0.96$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.28, 6.28, 6.28); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 1.01 mW/g

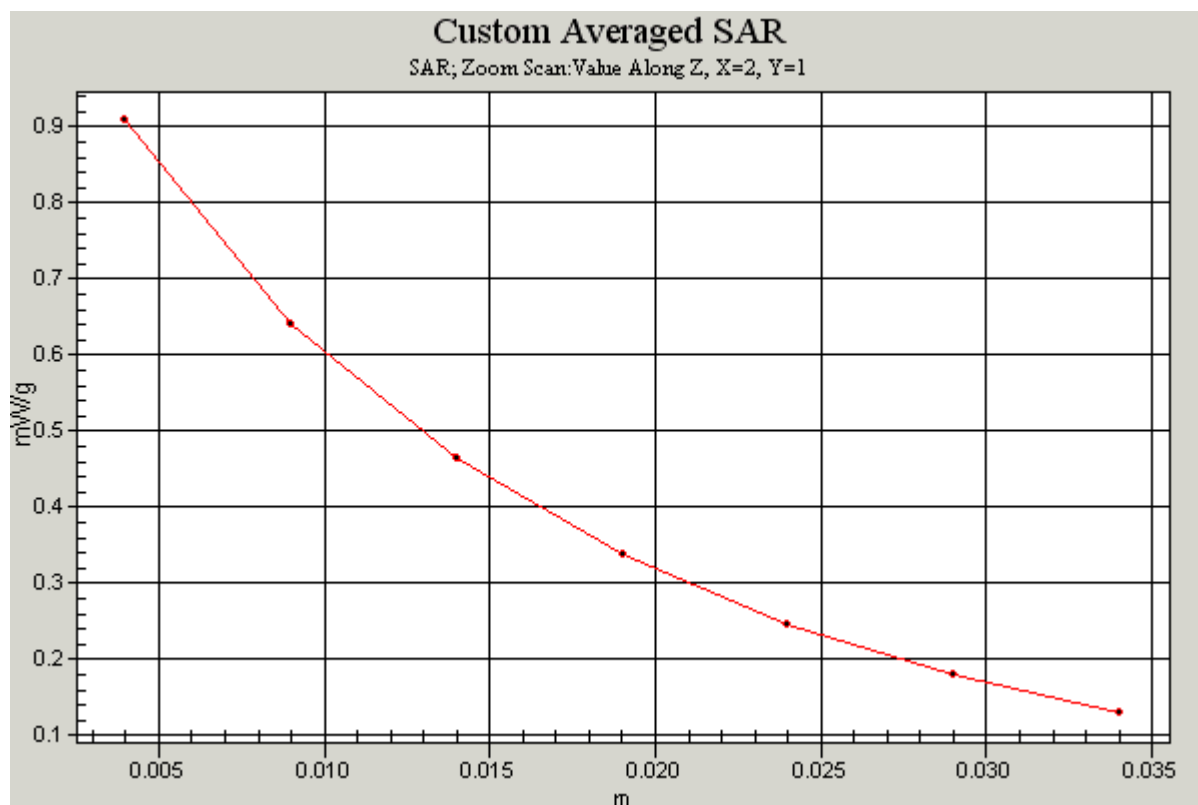
Body, Ch. 0799, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.9 V/m; Power Drift = -0.150 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.849 mW/g

Maximum value of SAR (measured) = 0.908 mW/g



SAMSUNG FCC ID : A3LSPHA840 -- 835MHz CDMA Body SAR

DUT: SPH-A840 (Body); Serial: FC-093-A

Program Name: SPH-A840 CDMA Body (Job No. : FC-093)

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

Procedure Notes: Meas. Tissue Temp(celsius)- 21.8; Test Date-01/Jul/2004 [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; $\sigma = 0.96$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3017; ConvF(6.28, 6.28, 6.28); Calibrated: 2004-09-24
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn533; Calibrated: 2004-12-03
- Phantom: SAM 835/900 MHz; Type: SAM; Serial: TP-1141
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 0.819 mW/g

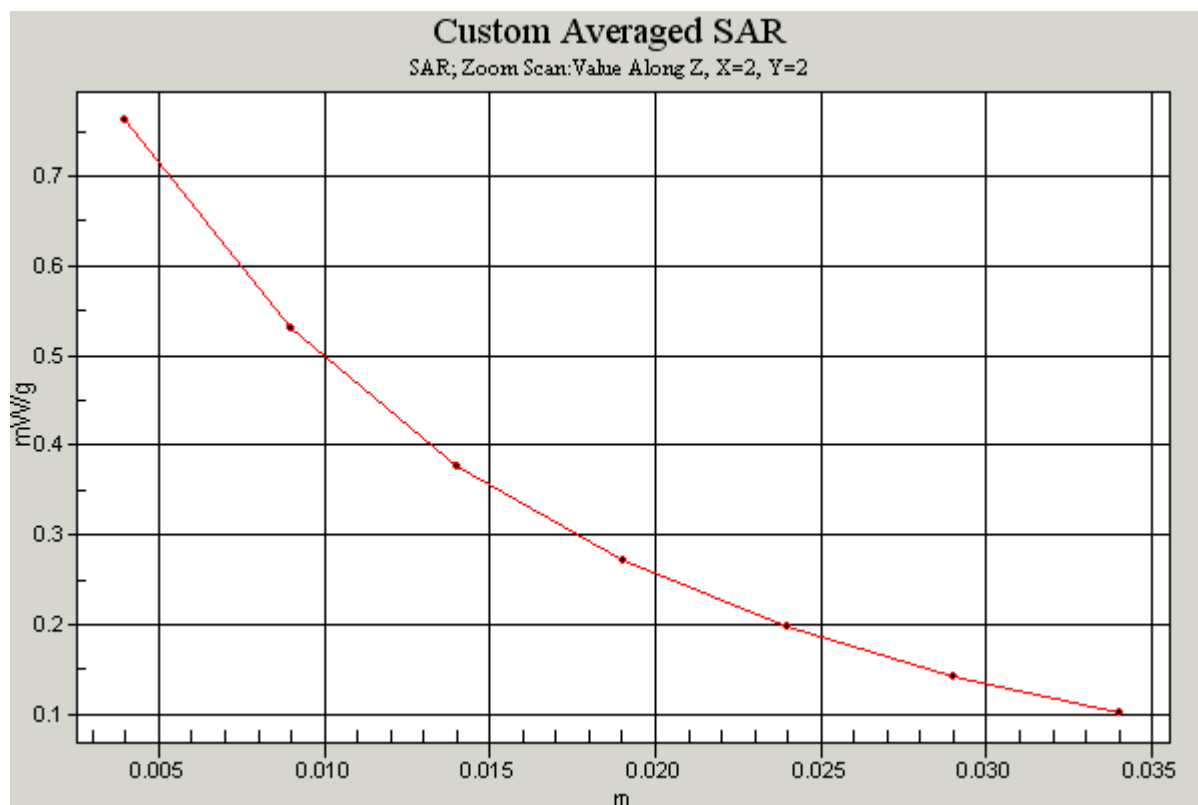
Body, Ch. 0777, Ant. In, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.3 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.717 mW/g

Maximum value of SAR (measured) = 0.762 mW/g



SAMSUNG FCC ID : A3LSPHA840 -- 1900MHz PCS Body SAR

DUT: SPH-A840(Body); Serial: FC-093-A

Program Name: SPH-A840 PCS Body (Job No. : FC-093)

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

Procedure Notes: Meas.Tissue Temp(celsius)-22.1;Test Date-2/Jul/2005[OET Bulletin 65-Supplement C, July 2001]

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

Medium parameters used: $\sigma = 1.5$ mho/m, $\epsilon_r = 51.5161$; $\rho = 1000$ 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 1800/1900 MHz; Type: SAM; Serial: TP-1143
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body, Ch. 0025, Ant. Intenna, Bat. Extended/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.350 mW/g

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

Reference Value = 13.5 V/m; Power Drift = -0.109 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.292 mW/g

Maximum value of SAR (measured) = 0.316 mW/g

