

SAMSUNG FCC ID : A3LSPHM520 CDMA Head SAR

DUT: SPH-M520(Down); Serial: FE-029-I

Program Name: SPH-M520 CDMA Right Slide Down (Job No. : FE-029)

Procedure Name: Cheek/Touch, Ch.0384, Intenna, Bat. Standard

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.69, 5.69, 5.69); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, 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 = 12.5 V/m ; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 1.15 W/kg

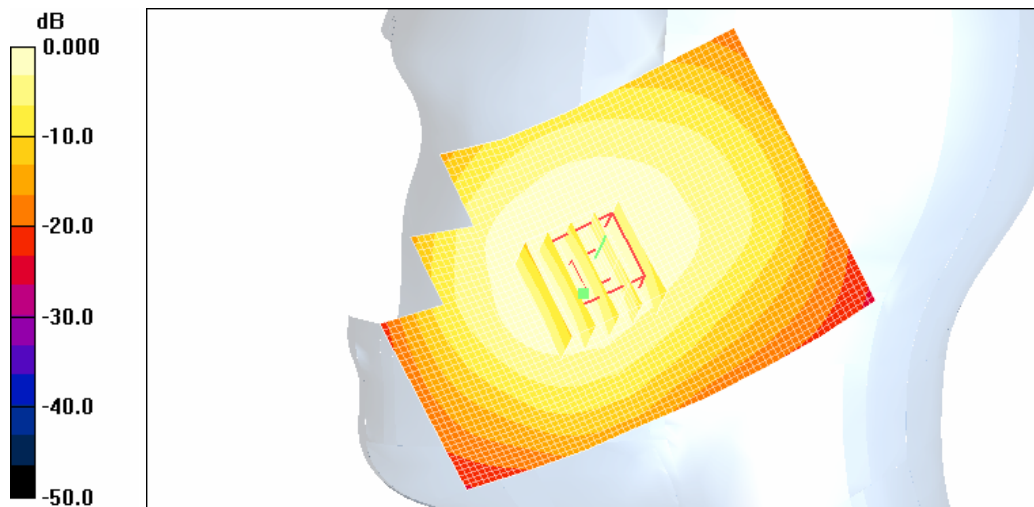
SAR(1 g) = 0.906 mW/g

Maximum value of SAR (measured) = 0.945 mW/g

Cheek/Touch, Ch.0384, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.860 mW/g



0 dB = 0.860 mW/g

SAMSUNG FCC ID : A3LSPHM520 CDMA Head SAR

DUT: SPH-M520(Down); Serial: FE-029-I

Program Name: SPH-M520 CDMA Right Slide Down (Job No. : FE-029)

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

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.69, 5.69, 5.69); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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) = 0.617 mW/g

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

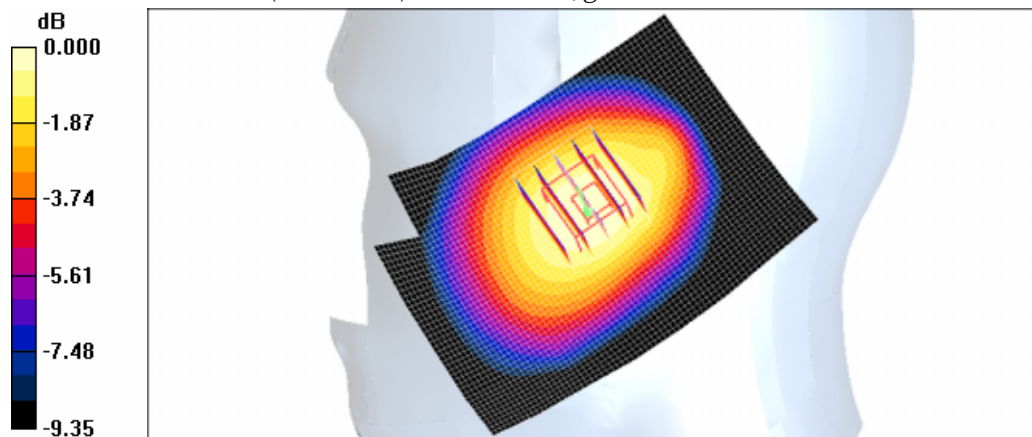
grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.7 V/m; Power Drift = 0.156 dB

Peak SAR (extrapolated) = 0.743 W/kg

SAR(1 g) = 0.585 mW/g

Maximum value of SAR (measured) = 0.616 mW/g



0 dB = 0.616mW/g

SAMSUNG FCC ID : A3LSPHM520 CDMA Head SAR

DUT: SPH-M520(Down); Serial: FE-029-I

Program Name: SPH-M520 CDMA Left Slide Down(Job No. : FE-029)

Procedure Name: Cheek/Touch, Ch.0384, Intenna, Bat. Standard

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.69, 5.69, 5.69); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, 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 = 29.5 V/m; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 1.25 W/kg

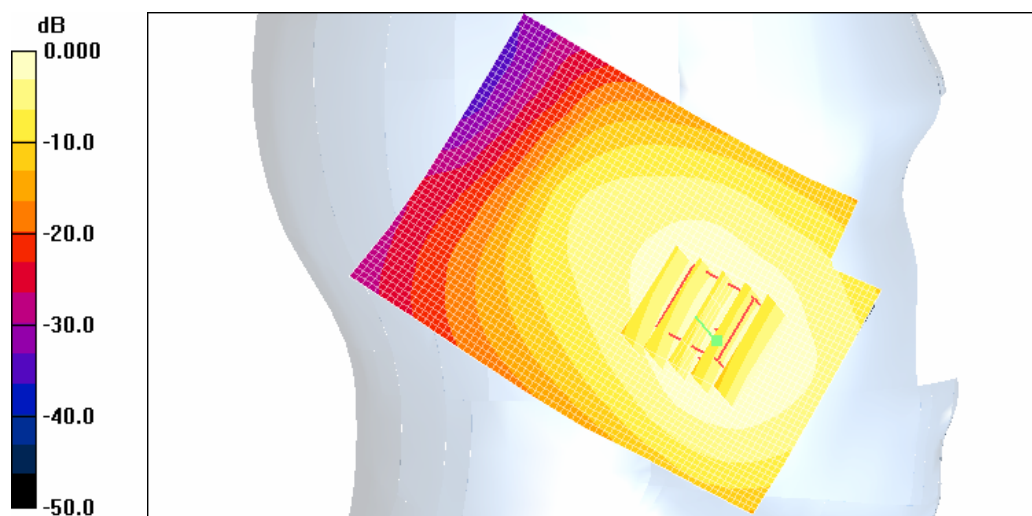
SAR(1 g) = 0.884 mW/g

Maximum value of SAR (measured) = 0.927 mW/g

Cheek/Touch, Ch.0384, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.986 mW/g



0 dB = 0.986mW/g

SAMSUNG FCC ID : A3LSPHM520 CDMA Head SAR

DUT: SPH-M520(Down); Serial: FE-029-I

Program Name: SPH-M520 CDMA Left Slide Down(Job No. : FE-029)

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

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.69, 5.69, 5.69); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Reference Value = 18.4 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 0.647 W/kg

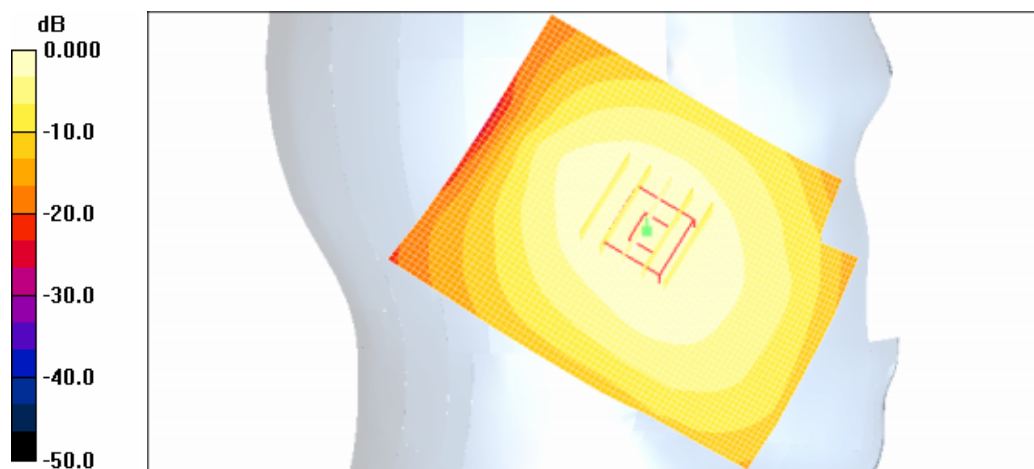
SAR(1 g) = 0.518 mW/g

Maximum value of SAR (measured) = 0.548 mW/g

Ear/Tilt, Ch.0384, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.536 mW/g



0 dB = 0.536mW/g

SAMSUNG FCC ID : A3LSPHM520 CDMA Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 CDMA Right Slide up (Job No. : FE-029)

Procedure Name: Cheek/Touch, Ch.0384, Intenna, Bat. Standard

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.69, 5.69, 5.69); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, 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 = 15.4 V/m; Power Drift = 0.186 dB

Peak SAR (extrapolated) = 1.36 W/kg

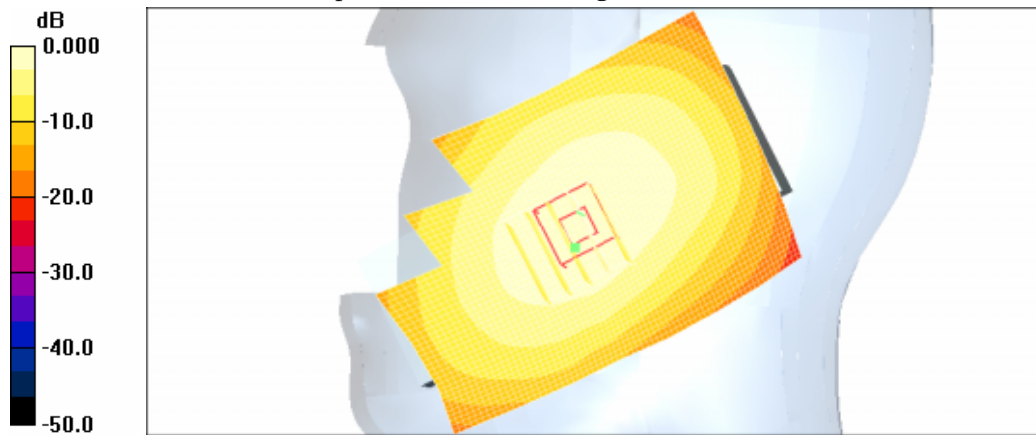
SAR(1 g) = 1.08 mW/g

Maximum value of SAR (measured) = 1.13 mW/g

Cheek/Touch, Ch.0384, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.14 mW/g



0 dB = 1.14mW/g

SAMSUNG FCC ID : A3LSPHM520 CDMA Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 CDMA Right Slide up (Job No. : FE-029)

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

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.69, 5.69, 5.69); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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) = 0.585 mW/g

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

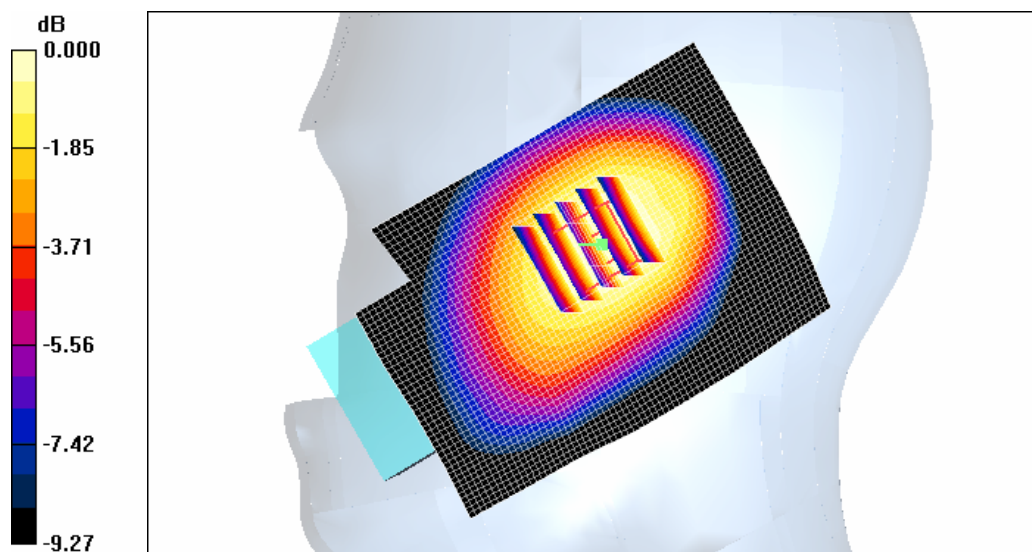
grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.4 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 0.663 W/kg

SAR(1 g) = 0.524 mW/g

Maximum value of SAR (measured) = 0.554 mW/g



0 dB = 0.554mW/g

SAMSUNG FCC ID : A3LSPHM520 CDMA Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 CDMA Left Slide Up(Job No. : FE-029)

Procedure Name: Cheek/Touch, Ch.1013, Intenna, Bat. Standard

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

Communication System: CDMA; Frequency: 824.7 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 824.7 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.69, 5.69, 5.69); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, Ch.1013, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:
 $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 1.12 mW/g

Cheek/Touch, Ch.1013, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

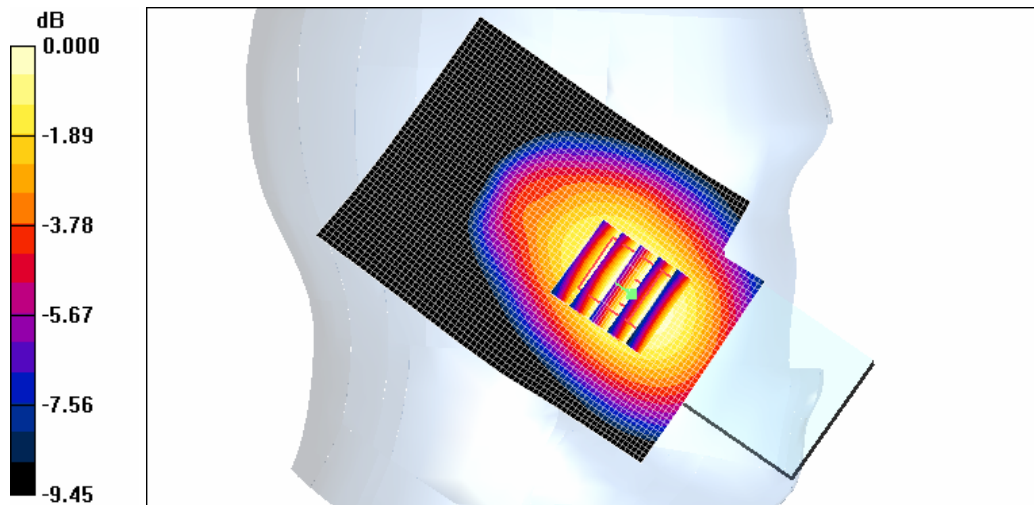
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.1 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.964 mW/g

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



0 dB = 1.01mW/g

SAMSUNG FCC ID : A3LSPHM520 CDMA Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 CDMA Left Slide Up(Job No. : FE-029)

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

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.69, 5.69, 5.69); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Reference Value = 16.0 V/m; Power Drift = 0.149 dB

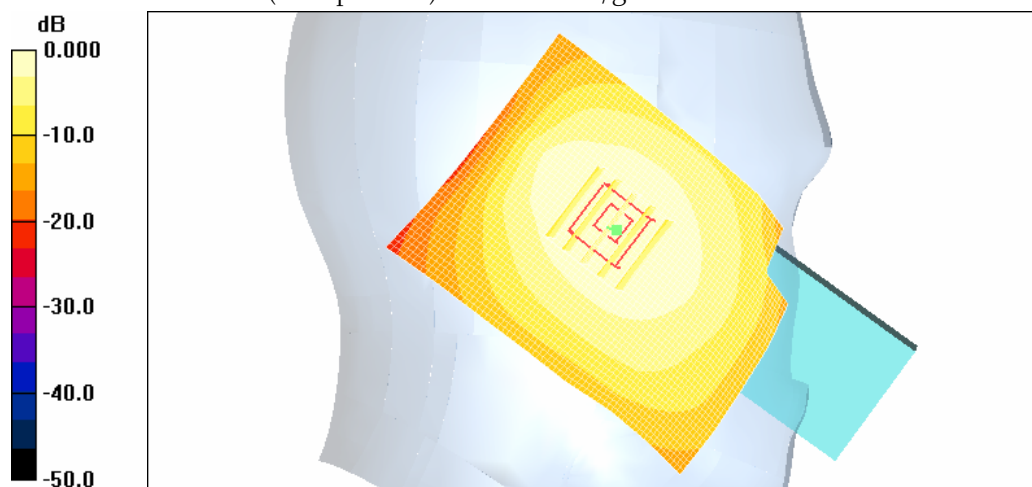
Peak SAR (extrapolated) = 0.540 W/kg

SAR(1 g) = 0.427 mW/g

Maximum value of SAR (measured) = 0.451 mW/g

Ear/Tilt, Ch.0384, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.461 mW/g



0 dB = 0.461mW/g

SAMSUNG FCC ID : A3LSPHM520 CDMA Body SAR

DUT: SPH-M520(Body); Serial: FE-029-I

Program Name: SPH-M520 CDMA Body (Job No. : FE-029)

Procedure Name: Body, Ch. 384, Ant. Intenna, Bat. Standard

Meas. Ambient Temp-21.8 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Ch. 384, 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 = 0.123 dB

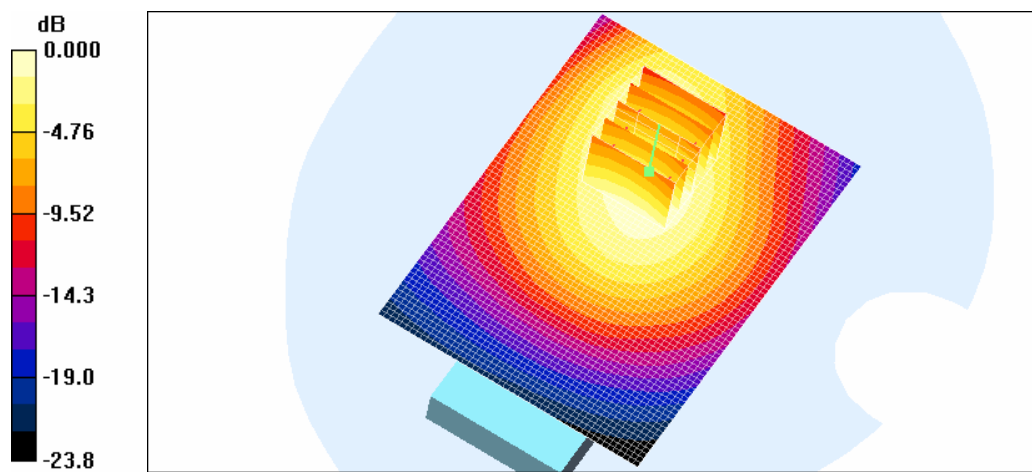
Peak SAR (extrapolated) = 0.918 W/kg

SAR(1 g) = 0.672 mW/g

Maximum value of SAR (measured) = 0.721 mW/g

Body, Ch. 384, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.666 mW/g



0 dB = 0.666mW/g

SAMSUNG FCC ID : A3LSPHM520 CDMA Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 CDMA Right Slide up (Job No. : FE-029)

Procedure Name: Cheek/Touch, Ch.0384, Intenna, Bat. Standard

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.69, 5.69, 5.69); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, 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 = 15.4 V/m; Power Drift = 0.186 dB

Peak SAR (extrapolated) = 1.36 W/kg

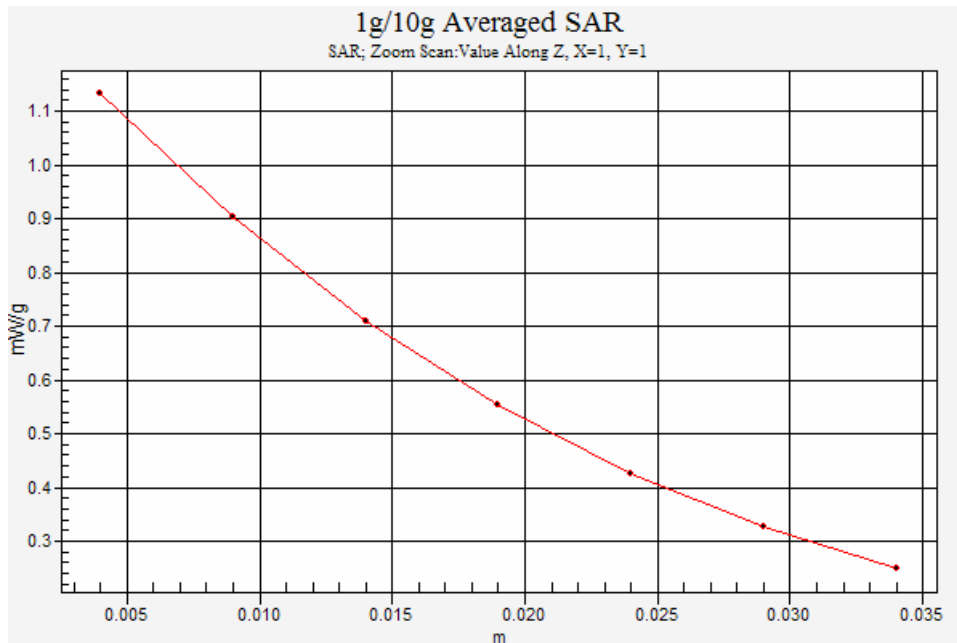
SAR(1 g) = 1.08 mW/g

Maximum value of SAR (measured) = 1.13 mW/g

Cheek/Touch, Ch.0384, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.14 mW/g



SAMSUNG FCC ID : A3LSPHM520 CDMA Body SAR

DUT: SPH-M520(Body); Serial: FE-029-I

Program Name: SPH-M520 CDMA Body (Job No. : FE-029)

Procedure Name: Body, Ch. 384, Ant. Intenna, Bat. Standard

Meas. Ambient Temp-21.8 , Tissue Temp(celsius)-21.4;Test Date-15/Mar/2007

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

Medium parameters used: $f = 836.52$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5.75, 5.75, 5.75); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body, Ch. 384, 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 = 0.123 dB

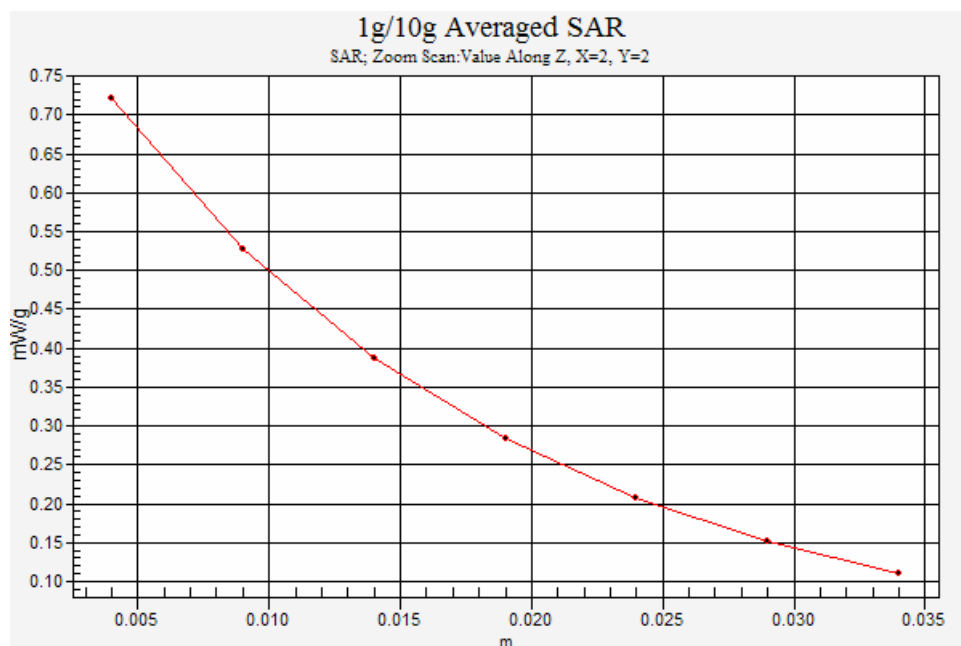
Peak SAR (extrapolated) = 0.918 W/kg

SAR(1 g) = 0.672 mW/g

Maximum value of SAR (measured) = 0.721 mW/g

Body, Ch. 384, Ant. Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.666 mW/g



SAMSUNG FCC ID : A3LSPHM520 PCS Head SAR

DUT: SPH-M520(Down); Serial: FE-029-I

Program Name: SPH-M520 PCS Right Slide Down(Job No. : FE-029)

Procedure Name: Cheek/Touch, Ch.0600, Intenna, Bat. Standard

Meas. Ambient Temp-21.4,Tissue Temp(celsius)-21.2;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, Ch.0600, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 24.6 V/m ; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 1.04 W/kg

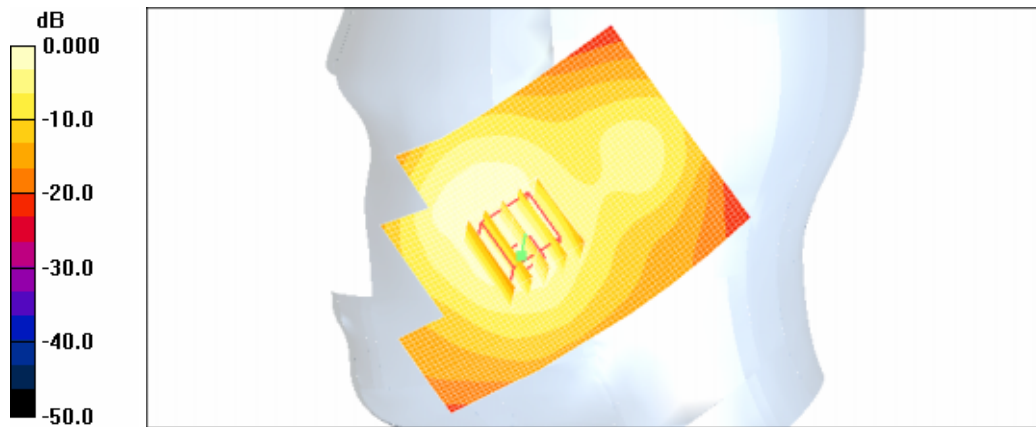
SAR(1 g) = 0.788 mW/g

Maximum value of SAR (measured) = 0.835 mW/g

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

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

Maximum value of SAR (interpolated) = 0.906 mW/g



0 dB = 0.906mW/g

SAMSUNG FCC ID : A3LSPHM520 PCS Head SAR

DUT: SPH-M520(Down); Serial: FE-029-I

Program Name: SPH-M520 PCS Right Slide Down(Job No. : FE-029)

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

Meas. Ambient Temp-21.4,Tissue Temp(celsius)-21.2;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Reference Value = 21.5 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 0.808 W/kg

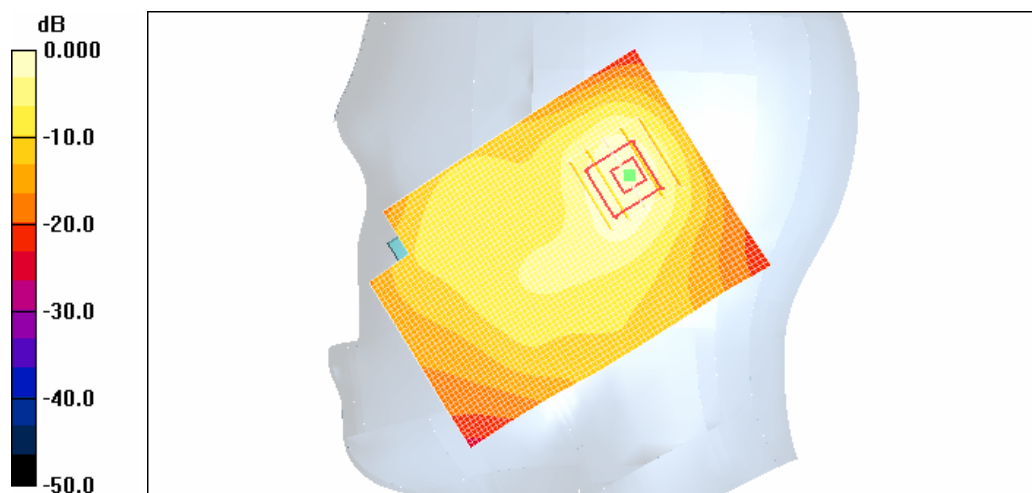
SAR(1 g) = 0.540 mW/g

Maximum value of SAR (measured) = 0.608 mW/g

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.604 mW/g



0 dB = 0.604mW/g

SAMSUNG FCC ID : A3LSPHM520 PCS Head SAR

DUT: SPH-M520(Down); Serial: FE-029-I

Program Name: SPH-M500 PCS Left Slide Down(Job No. : FE-029)

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

Meas. Ambient Temp-21.4,Tissue Temp(celsius)-21.2;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1908.75 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, Ch.1175, Intenna, Bat. Standard/Area Scan (51x71x1): Measurement grid:

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

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

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

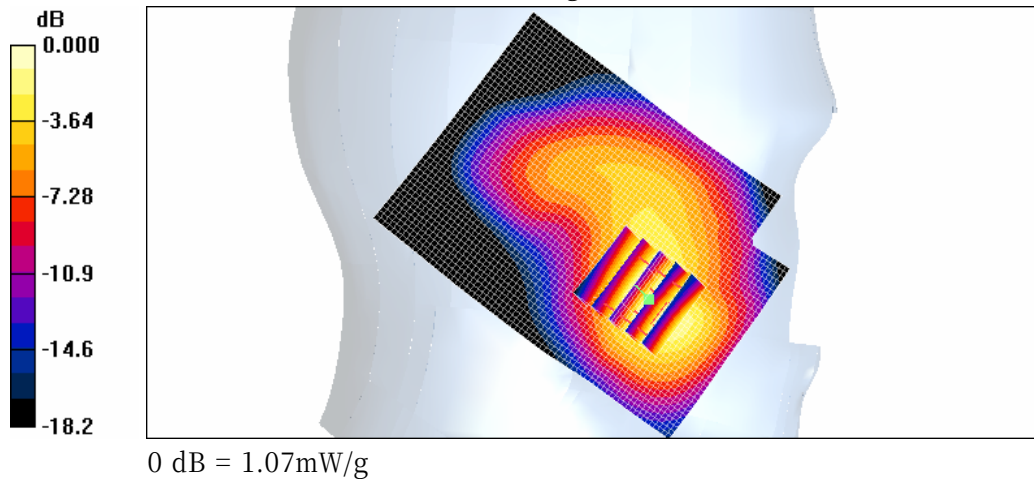
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.5 V/m; Power Drift = 0.152 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.982 mW/g

Maximum value of SAR (measured) = 1.07 mW/g



SAMSUNG FCC ID : A3LSPHM520 PCS Head SAR

DUT: SPH-M520(Down); Serial: FE-029-I

Program Name: SPH-M500 PCS Left Slide Down(Job No. : FE-029)

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

Meas. Ambient Temp-21.4,Tissue Temp(celsius)-21.2;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Reference Value = 18.5 V/m; Power Drift = 0.097 dB

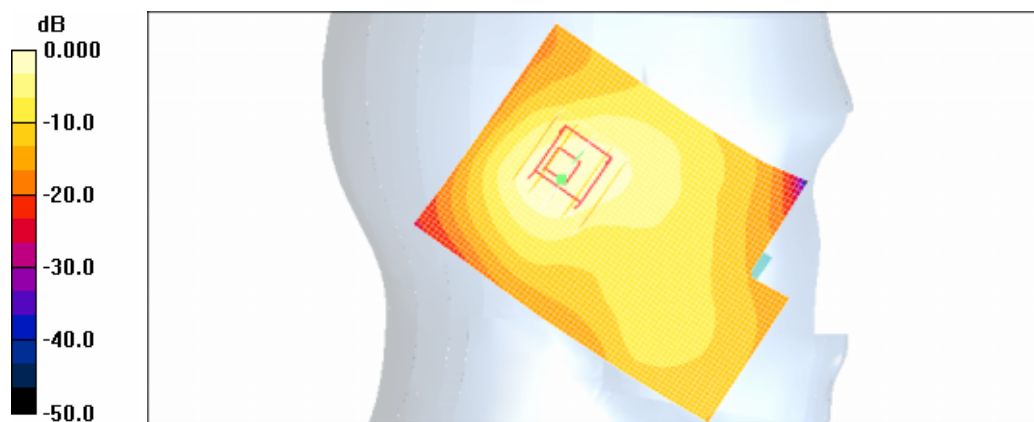
Peak SAR (extrapolated) = 0.647 W/kg

SAR(1 g) = 0.428 mW/g

Maximum value of SAR (measured) = 0.452 mW/g

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

Maximum value of SAR (interpolated) = 0.483 mW/g



0 dB = 0.483mW/g

SAMSUNG FCC ID : A3LSPHM520 PCS Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 PCS Right Slide Up(Job No. : FE-029)

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

Meas. Ambient Temp-21.4,Tissue Temp(celsius)-21.2;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, Ch.1175, Intenna, Bat. Standard With BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.949 mW/g

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

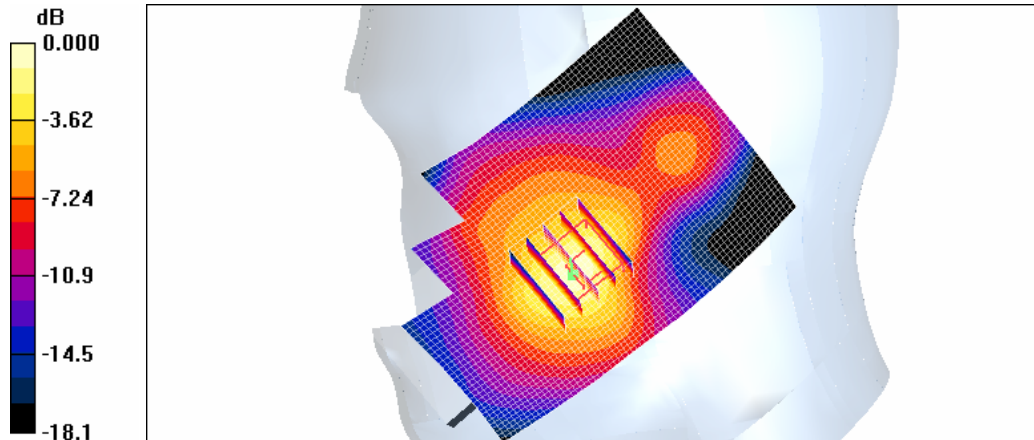
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.4 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.993 mW/g

Maximum value of SAR (measured) = 1.07 mW/g



0 dB = 1.07mW/g

SAMSUNG FCC ID : A3LSPHM520 PCS Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 PCS Right Slide Up(Job No. : FE-029)

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

Meas. Ambient Temp-21.4,Tissue Temp(celsius)-21.2;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Reference Value = 19.5 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 0.699 W/kg

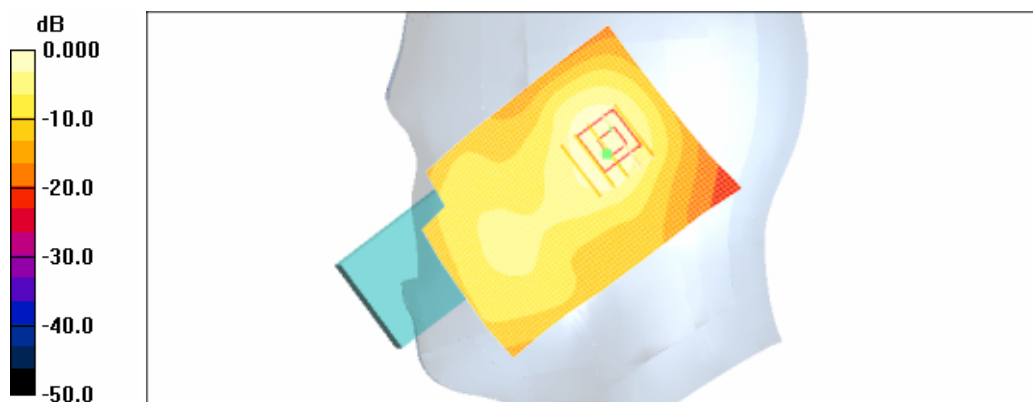
SAR(1 g) = 0.480 mW/g

Maximum value of SAR (measured) = 0.511 mW/g

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.537 mW/g



0 dB = 0.537mW/g

SAMSUNG FCC ID : A3LSPHM520 PCS Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 PCS Left Slide Up(Job No. : FE-029)

Procedure Name: Cheek/Touch, Ch.0600, Intenna, Bat. Standard

Meas. Ambient Temp-21.4,Tissue Temp(celsius)-21.2;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, Ch.0600, Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0:

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

Reference Value = 20.6 V/m; Power Drift = -0.042 dB

Peak SAR (extrapolated) = 1.01 W/kg

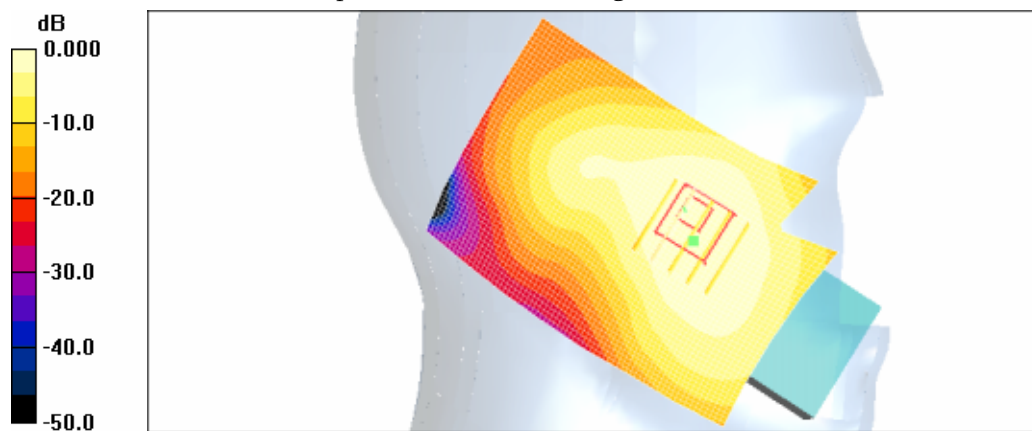
SAR(1 g) = 0.716 mW/g

Maximum value of SAR (measured) = 0.778 mW/g

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

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

Maximum value of SAR (interpolated) = 0.657 mW/g



0 dB = 0.657mW/g

SAMSUNG FCC ID : A3LSPHM520 PCS Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 PCS Left Slide Up(Job No. : FE-029)

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

Meas. Ambient Temp-21.4,Tissue Temp(celsius)-21.2;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Reference Value = 18.2 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 0.799 W/kg

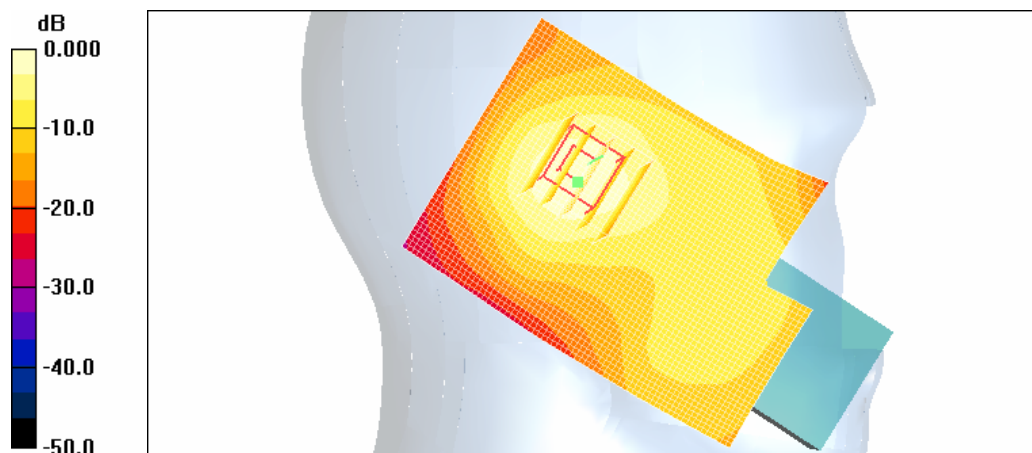
SAR(1 g) = 0.532 mW/g

Maximum value of SAR (measured) = 0.561 mW/g

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

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.608 mW/g



0 dB = 0.608mW/g

SAMSUNG FCC ID : A3LSPHM520 PCS Body SAR

DUT: SPH-M520(Body); Serial: FE-029-I

Program Name: SPH-M500 PCS Body (Job No. : FE-029)

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

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.3;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.5, 4.5, 4.5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.924 mW/g

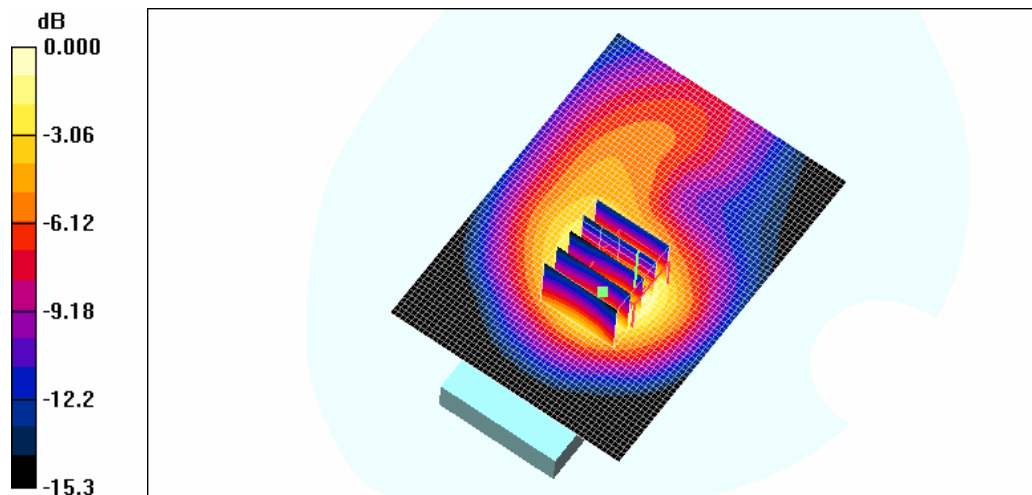
Body, Ch. 1175, Ant. Intenna, Bat. Standard/Zoom Scan (5x5x7)/Cube 0: Measurement
grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.761 mW/g

Maximum value of SAR (measured) = 0.831 mW/g



0 dB = 0.831mW/g

SAMSUNG FCC ID : A3LSPHM520 PCS Head SAR

DUT: SPH-M520(Up); Serial: FE-029-I

Program Name: SPH-M520 PCS Right Slide Up(Job No. : FE-029)

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

Meas. Ambient Temp-21.4,Tissue Temp(celsius)-21.2;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1908.75$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(5, 5, 5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Cheek/Touch, Ch.1175, Intenna, Bat. Standard With BT ON/Area Scan (51x71x1):

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

Maximum value of SAR (interpolated) = 0.949 mW/g

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

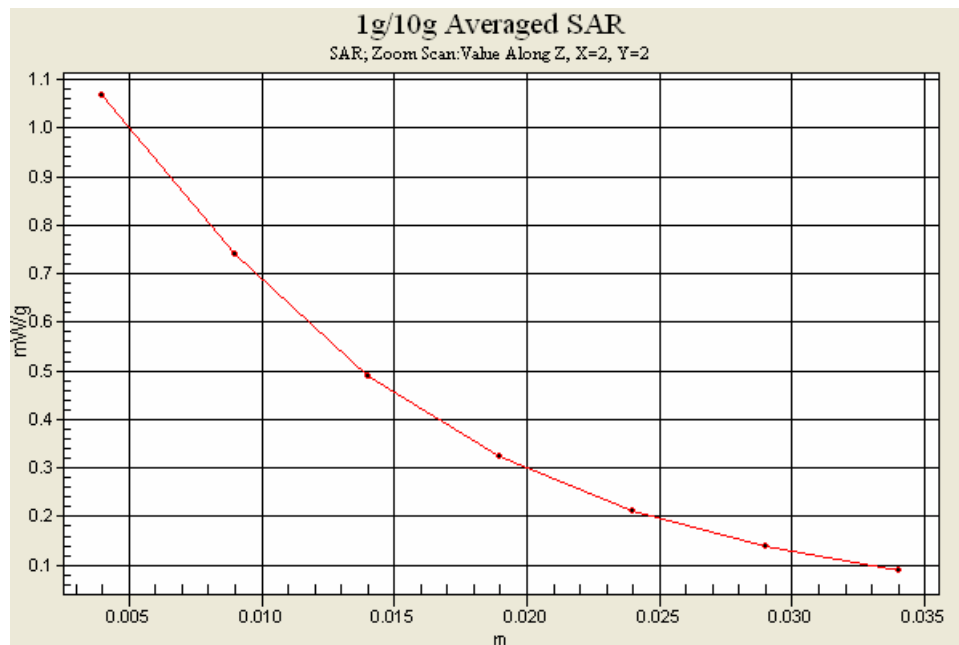
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.4 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.993 mW/g

Maximum value of SAR (measured) = 1.07 mW/g



SAMSUNG FCC ID : A3LSPHM520 PCS Body SAR

DUT: SPH-M520(Body); Serial: FE-029-I

Program Name: SPH-M500 PCS Body (Job No. : FE-029)

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

Meas. Ambient Temp-21.7 , Tissue Temp(celsius)-21.3;Test Date-15/Mar/2007

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

Medium parameters used: $f = 1908.75 \text{ MHz}$; $\sigma = 1.54 \text{ mho/m}$; $\epsilon_r = 51.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3080; ConvF(4.5, 4.5, 4.5); Calibrated: 2006-05-30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn486; Calibrated: 2006-07-17
- Phantom: PHANTOM All; Type: SAM; Serial: TP-1364
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.924 mW/g

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

Reference Value = 11.0 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.761 mW/g

Maximum value of SAR (measured) = 0.831 mW/g

