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Test Laboratory: Compliance Certification Services Inc.

January 9, 2013

GSM 850-Right Head Cheek Middle CH190

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used (interpolated): $f = 836.6\text{MHz}$; $\sigma = 0.899\text{ mho/m}$; $\epsilon_r = 41.327$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.03, 9.03, 9.03); Calibrated: 7/25/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

GSM850/Right Head Cheek Middle CH190/ Area Scan (5x9x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

GSM850/Right Head Cheek Middle CH190/Zoom Scan (5x5x5)/Cube 0:

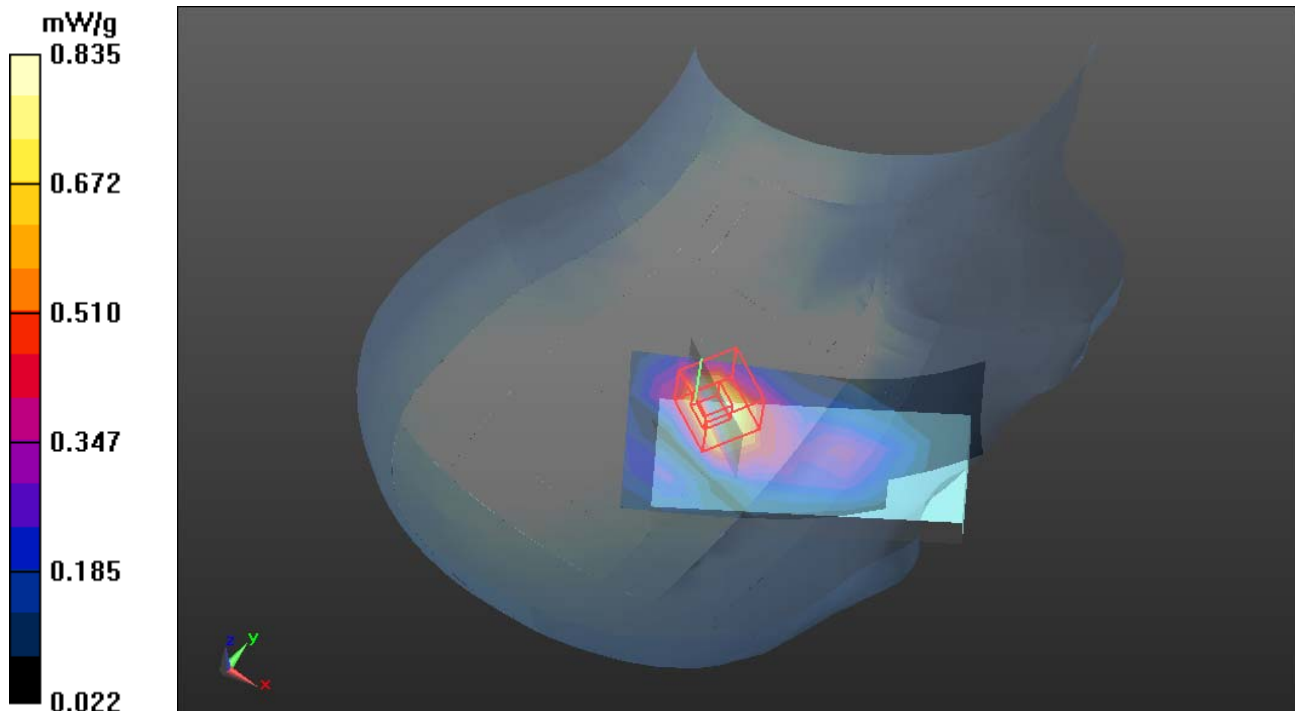
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

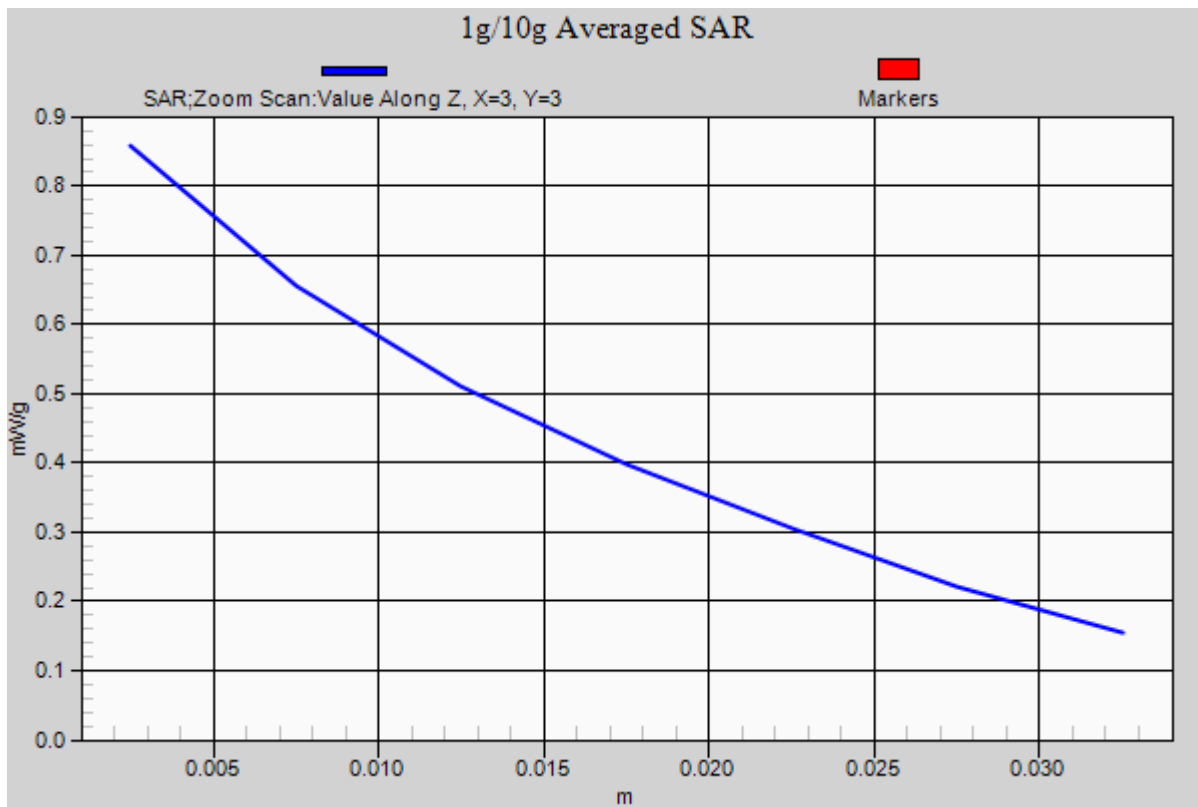
Reference Value = 14.383 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.937mW/g

SAR(1 g) = 0.582 mW/g; SAR(10 g) = 0.427 mW/g

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







Test Laboratory: Compliance Certification Services Inc.

January 9, 2013

GSM 850-Right Head Tilted Middle CH190

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used (interpolated): $f = 836.6\text{MHz}$; $\sigma = 0.899\text{ mho/m}$; $\epsilon_r = 41.327$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.03, 9.03, 9.03); Calibrated: 7/25/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

GSM850/Right Head Tilted Middle CH190/ Area Scan (5x9x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.454 mW/g

GSM850/Right Head Tilted Middle CH190/Zoom Scan (5x5x5)/Cube 0:

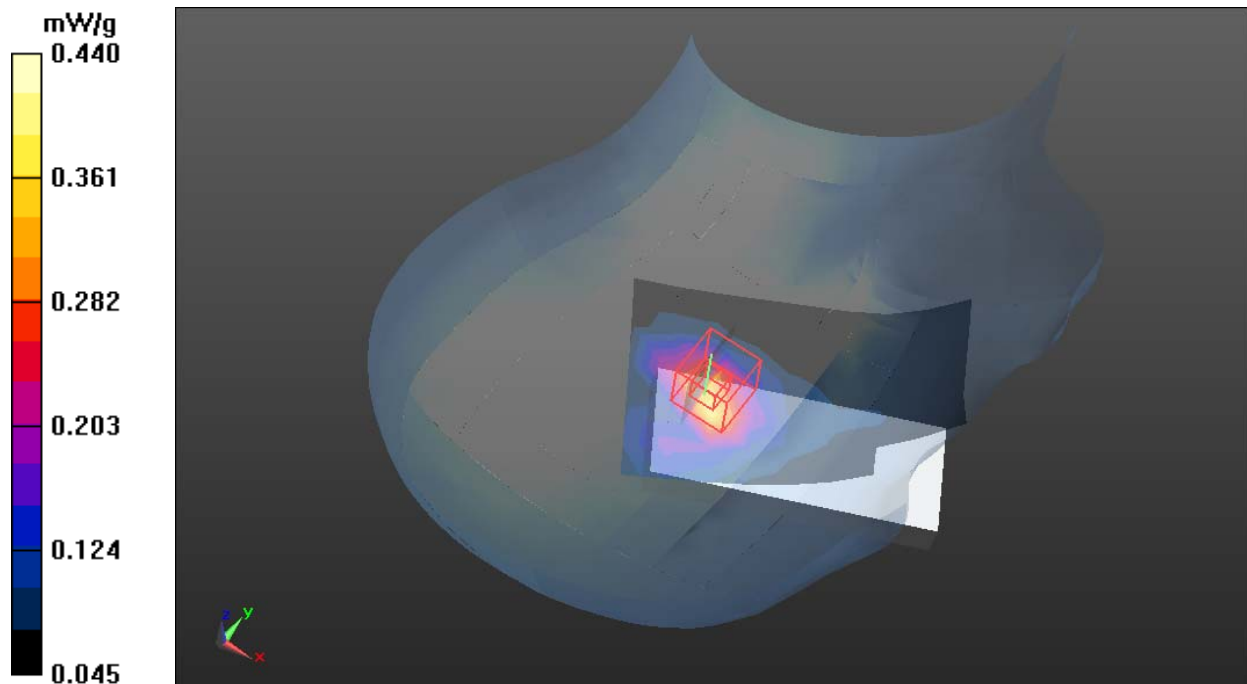
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.678 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.282 mW/g

Maximum value of SAR (measured) = 0.440 mW/g





Test Laboratory: Compliance Certification Services Inc.

January 9, 2013

GSM 850-Left Head Cheek Middle CH190

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used (interpolated): $f = 836.6\text{MHz}$; $\sigma = 0.899\text{ mho/m}$; $\epsilon_r = 41.327$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.03, 9.03, 9.03); Calibrated: 7/25/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

GSM850/Left Head Cheek Middle CH190/ Area Scan (5x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.810 mW/g

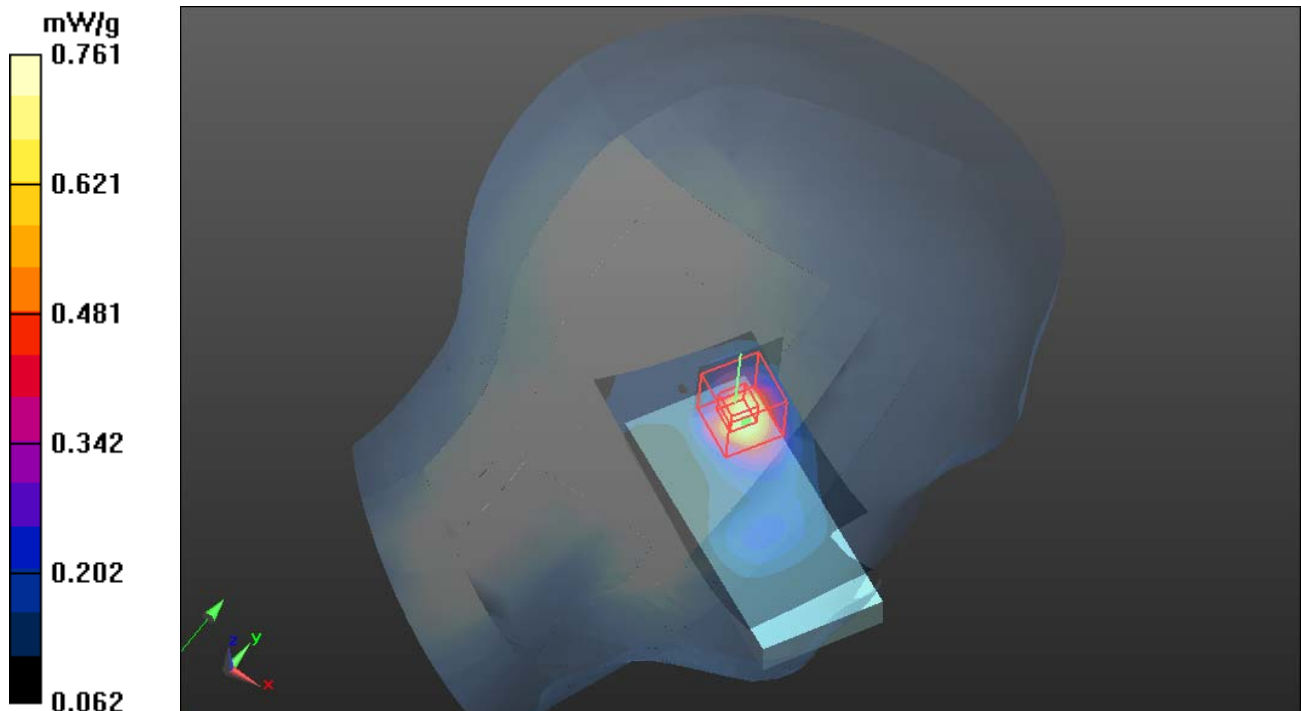
GSM850/Left Head Cheek Middle CH190/Zoom Scan (5x5x5)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.826 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.226 mW/g

SAR(1 g) = 0.548 mW/g; SAR(10 g) = 0.401 mW/g

Maximum value of SAR (measured) = 0.761 mW/g





Test Laboratory: Compliance Certification Services Inc.

January 9, 2013

GSM 850-Left Head Tilted Middle CH190

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used (interpolated): $f = 836.6\text{MHz}$; $\sigma = 0.899\text{ mho/m}$; $\epsilon_r = 41.327$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.03, 9.03, 9.03); Calibrated: 7/25/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

GSM850/Left Head Tilted Middle CH190/ Area Scan (5x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.428 mW/g

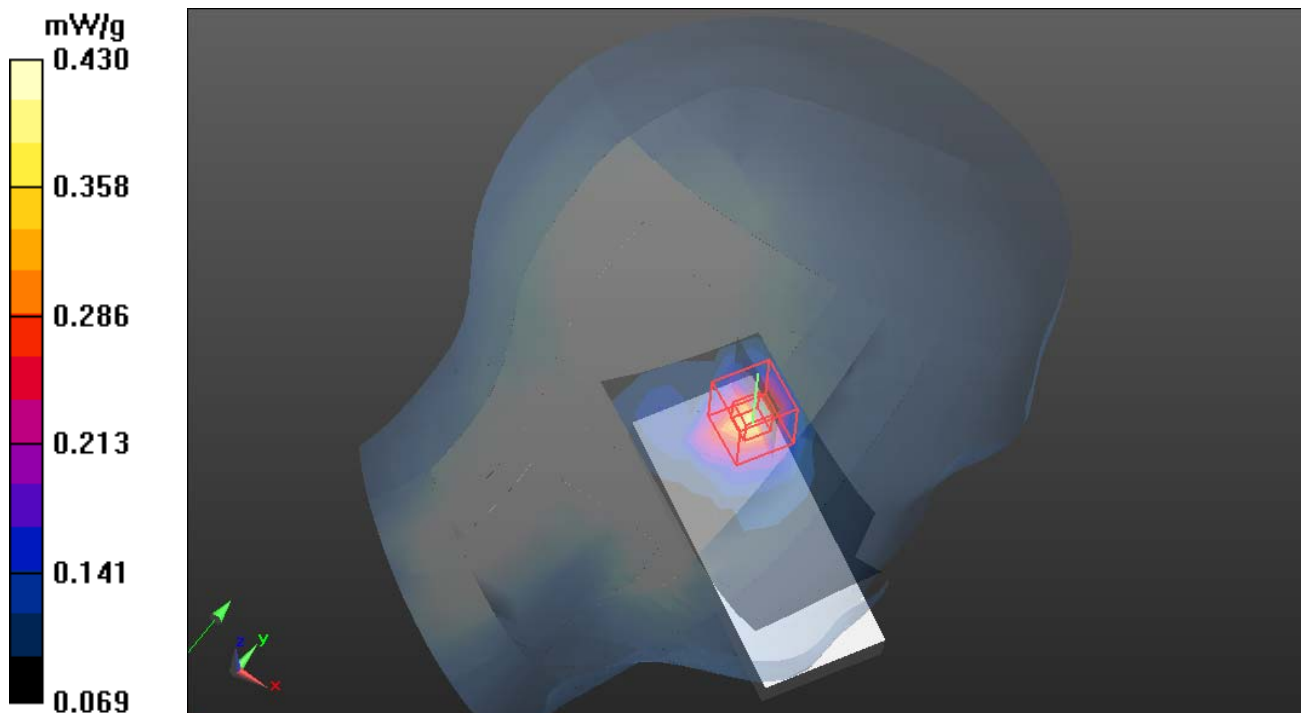
GSM850/Left Head Tilted Middle CH190/Zoom Scan (5x5x5)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.763 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.270 mW/g

Maximum value of SAR (measured) = 0.430 mW/g





Test Laboratory: Compliance Certification Services Inc.

January 10, 2013

PCS-1900-Right Head Cheek High CH810

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1909.8 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.74$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.64, 7.64, 7.64); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.2(969); SEMCAD X 14.6.6(6824)

PCS1900/Right Head Cheek High CH810/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.403 W/kg

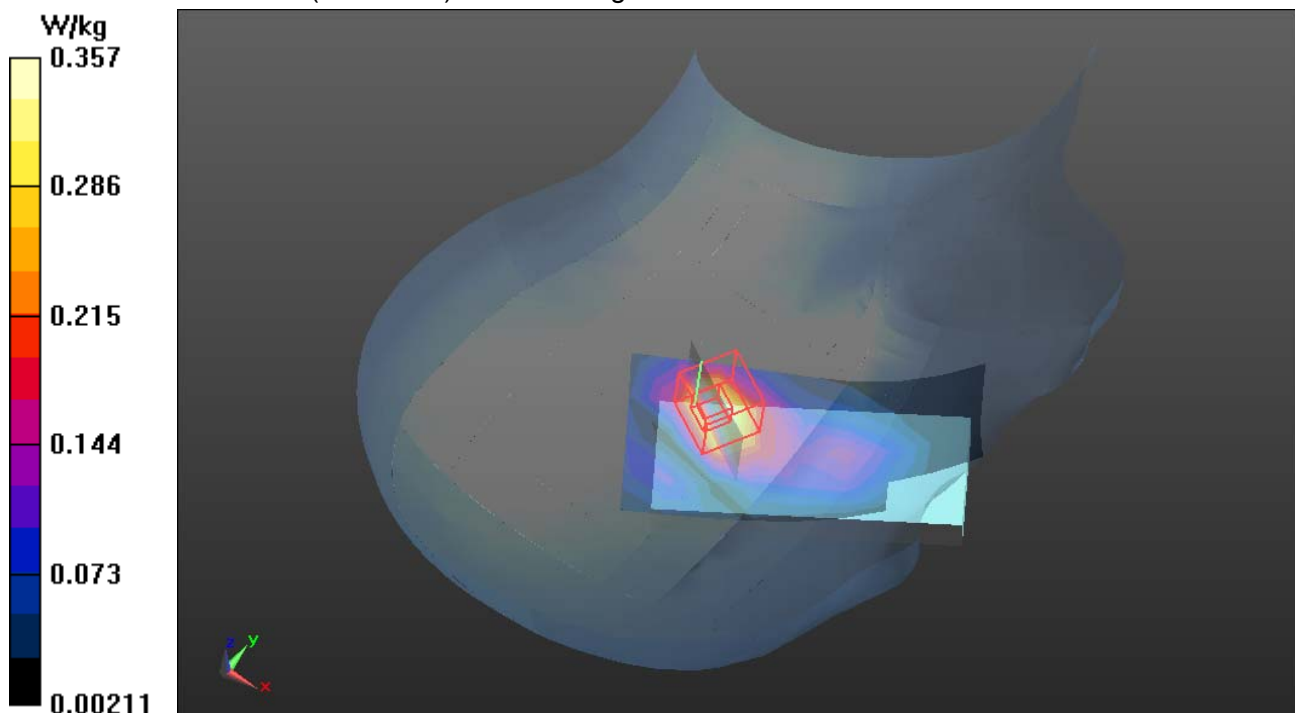
PCS1900/Right Head Cheek High CH810/Zoom Scan (6x6x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=8mm

Reference Value = 3.777 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.487 mW/g

SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.357 W/kg





Test Laboratory: Compliance Certification Services Inc.

January 10, 2013

PCS-1900-Right Head Tilted High CH810

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1909.8 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.74$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.64, 7.64, 7.64); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.2(969); SEMCAD X 14.6.6(6824)

PCS1900/Right Head Tilted High CH810/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.309 W/kg

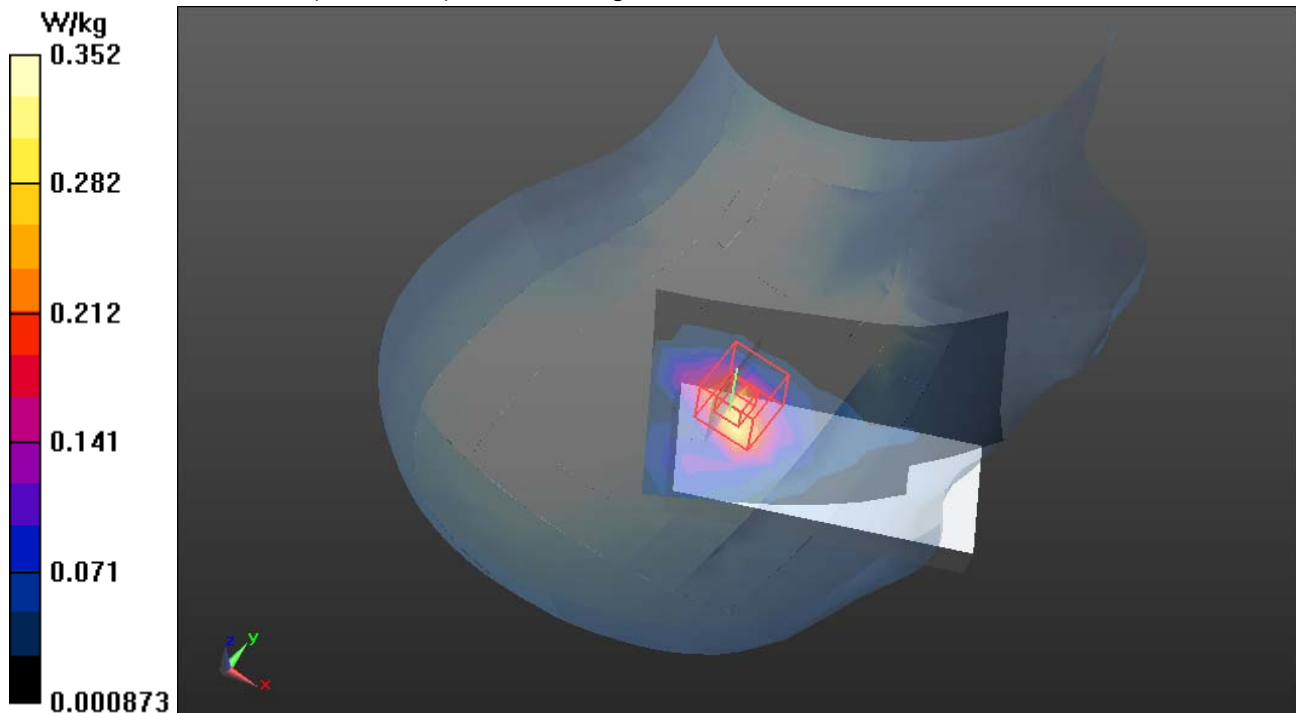
PCS1900/Right Head Tilted High CH810/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.448 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.451 mW/g

SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.127 mW/g

Maximum value of SAR (measured) = 0.352 W/kg





Test Laboratory: Compliance Certification Services Inc.

January 10, 2013

PCS 1900-Left Head Cheek High CH810

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1909.8 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.74$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASy5 (IEEE/IEC/ANSI C63.19-2007)

DASy Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.64, 7.64, 7.64); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASy52 52.8.2(969); SEMCAD X 14.6.6(6824)

PCS1900/Left Head Cheek High CH810/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.734 W/kg

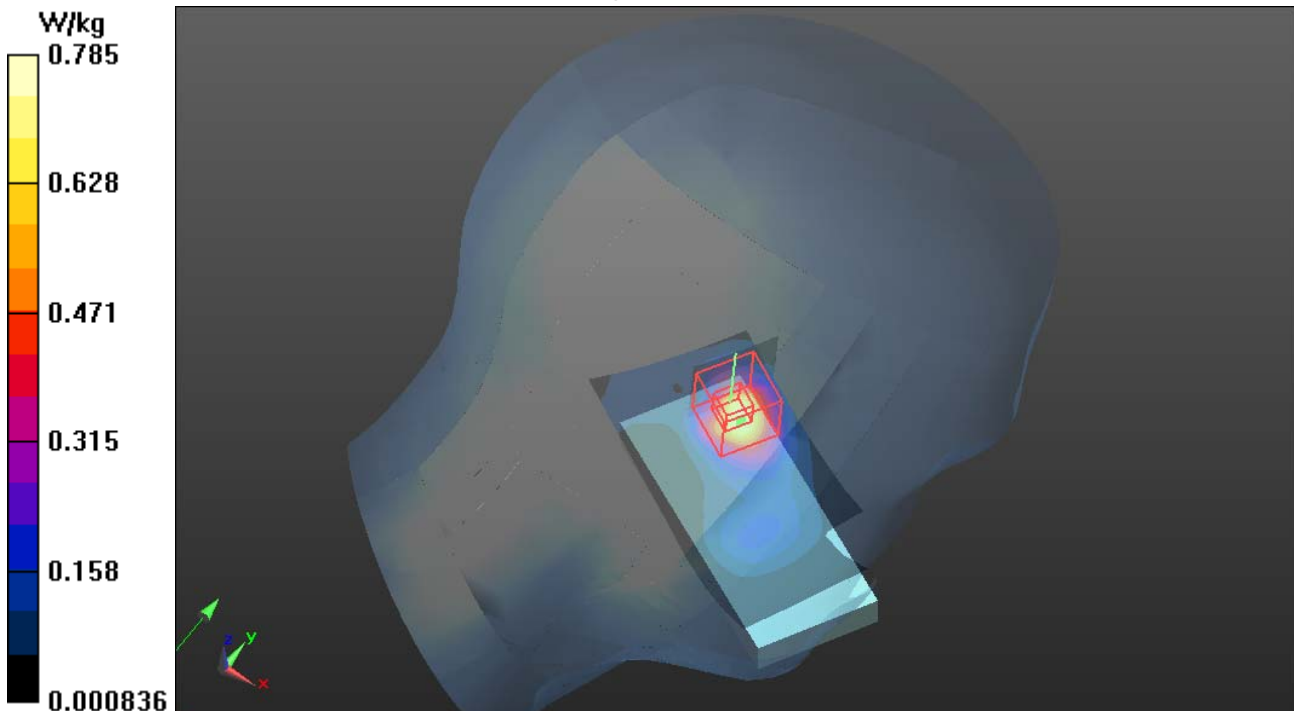
PCS1900/Left Head Cheek High CH810/Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=8mm

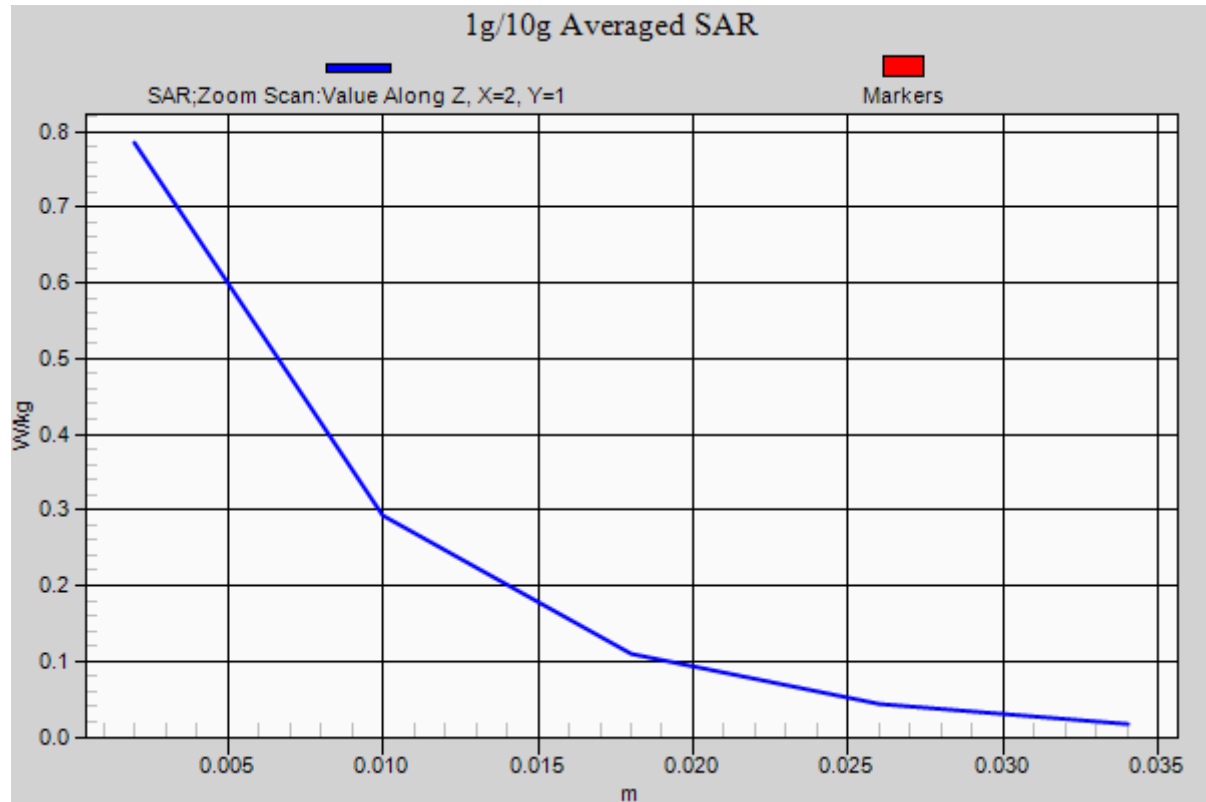
Reference Value = 7.284 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.061 mW/g

SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.262 mW/g

Maximum value of SAR (measured) = 0.785 W/kg







Test Laboratory: Compliance Certification Services Inc.

January 10, 2013

PCS 1900-Left Head Tilted High CH810

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1880 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.74$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.64, 7.64, 7.64); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.2(969); SEMCAD X 14.6.6(6824)

PCS1900/Left Head Tilted High CH810/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.410 W/kg

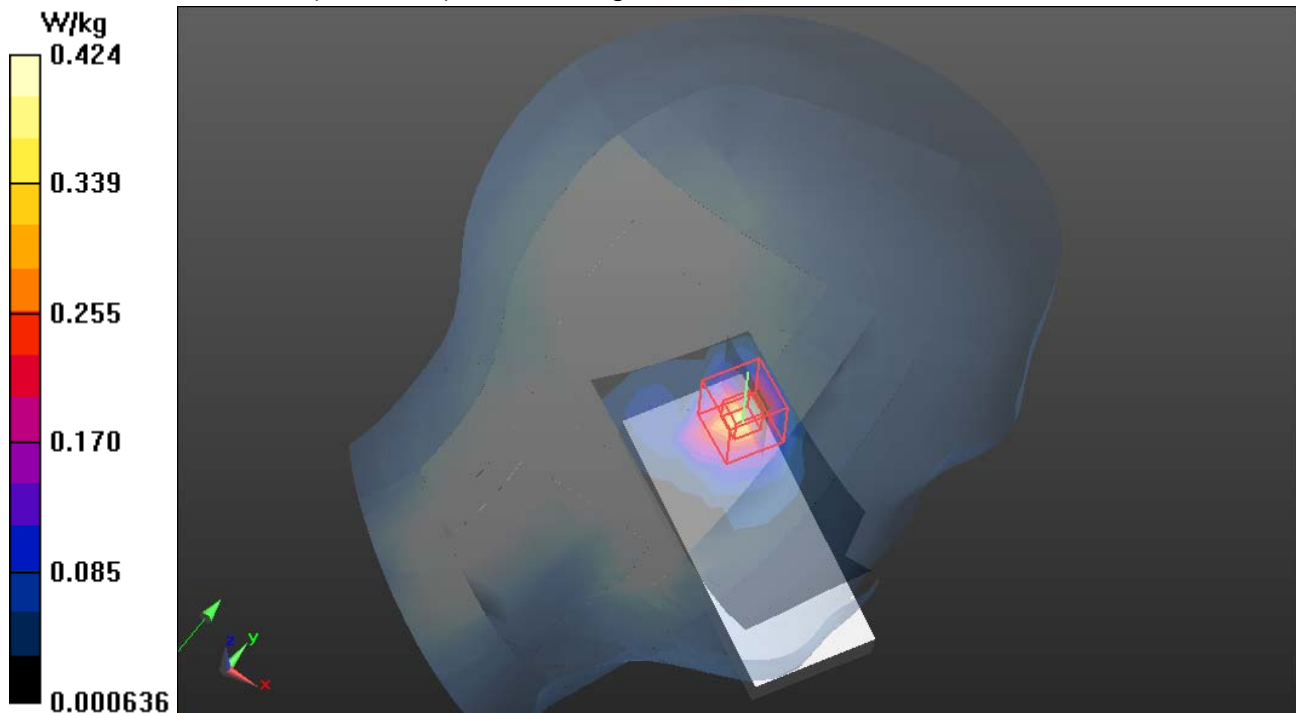
PCS1900/Left Head Tilted High CH810/Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=8mm

Reference Value = 4.167 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.546 mW/g

SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.142 mW/g

Maximum value of SAR (measured) = 0.424 W/kg





Test Laboratory: Compliance Certification Services Inc.

January 9, 2013

GSM 850-Body Up Middle CH190

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used (interpolated): $f = 824.2\text{MHz}$; $\sigma = 0.899\text{ mho/m}$; $\epsilon_r = 41.327$; $\rho = 1000\text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.12, 9.12, 9.12); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.2(969); SEMCAD X 14.6.6(6824)

GSM 850/GSM850 Body Up Middle CH190/Area Scan (5x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.453 W/kg

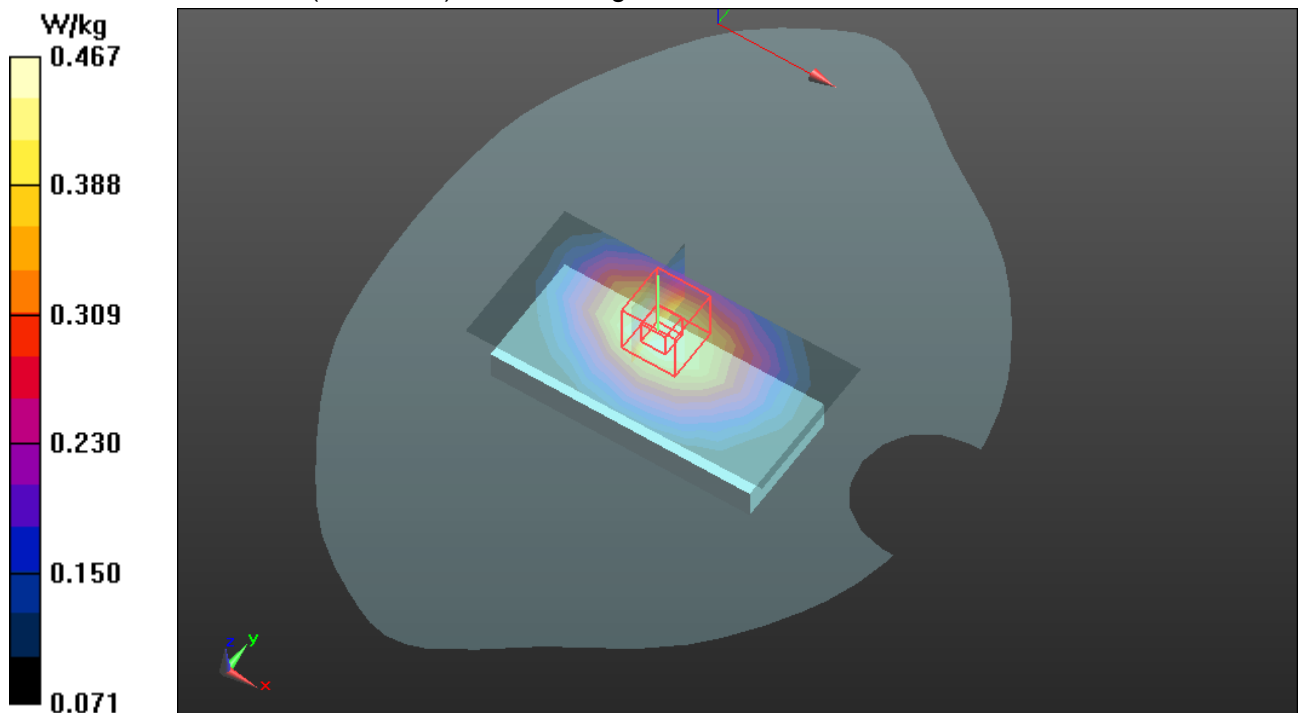
GSM 850/GSM850 Body Up Middle CH190/Zoom Scan (5x5x5)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=8\text{mm}$

Reference Value = 22.200 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.516 mW/g

SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.305 mW/g

Maximum value of SAR (measured) = 0.467 W/kg





Test Laboratory: Compliance Certification Services Inc.

January 9, 2013

GSM 850-Body Down Middle CH190

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz);

Frequency: 836.6 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.899$ mho/m; $\epsilon_r = 41.327$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(9.12, 9.12, 9.12); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASYS 52.8.2(969); SEMCAD X 14.6.6(6824)

GSM 850/GSM850 Body Down Middle CH190/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.01 W/kg

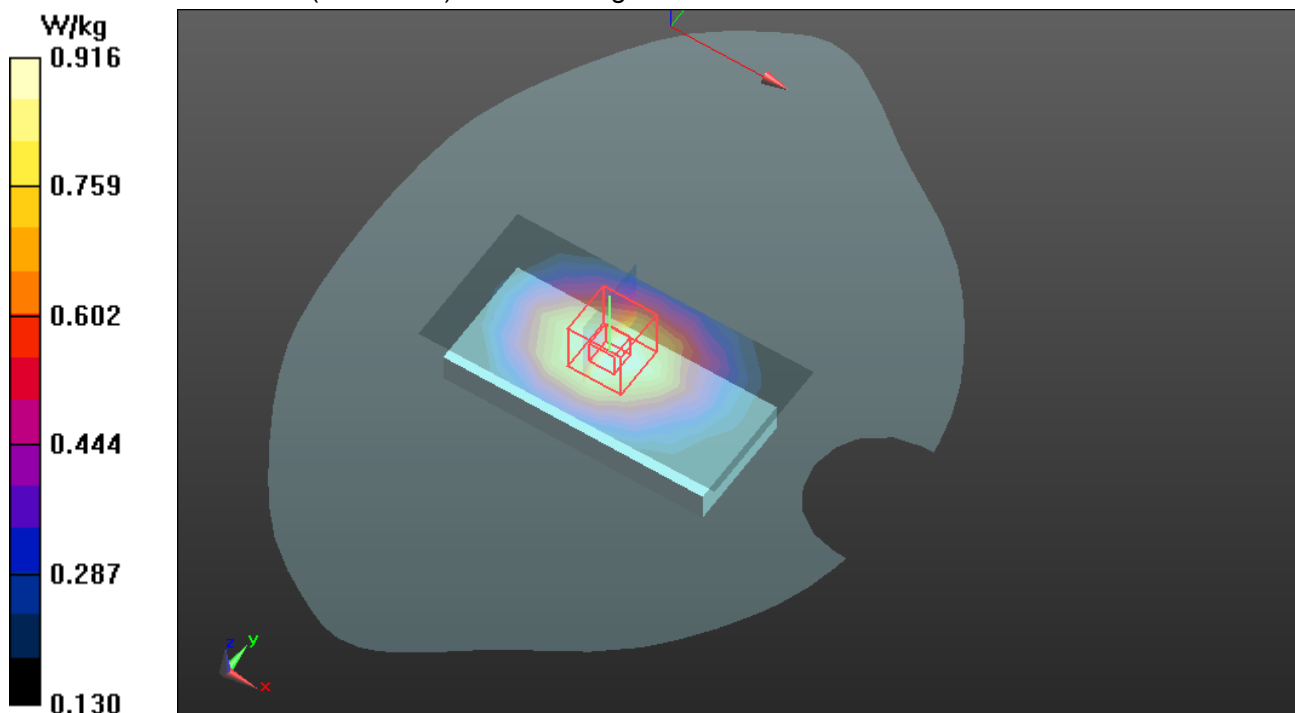
GSM 850/GSM850 Body Down Middle CH190/Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=8mm

Reference Value = 32.918 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.100 mW/g

SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.446 mW/g

Maximum value of SAR (measured) = 0.916 W/kg





Test Laboratory: Compliance Certification Services Inc.

January 10, 2013

PCS1900-Body Up High CH810

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);
Frequency: 1909.8 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.515$ mho/m; $\epsilon_r = 53.77$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.29, 7.29, 7.29); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASY52 52.8.2(969); SEMCAD X 14.6.6(6824)

GSM1900/GSM1900 Body Up High CH810/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.143 W/kg

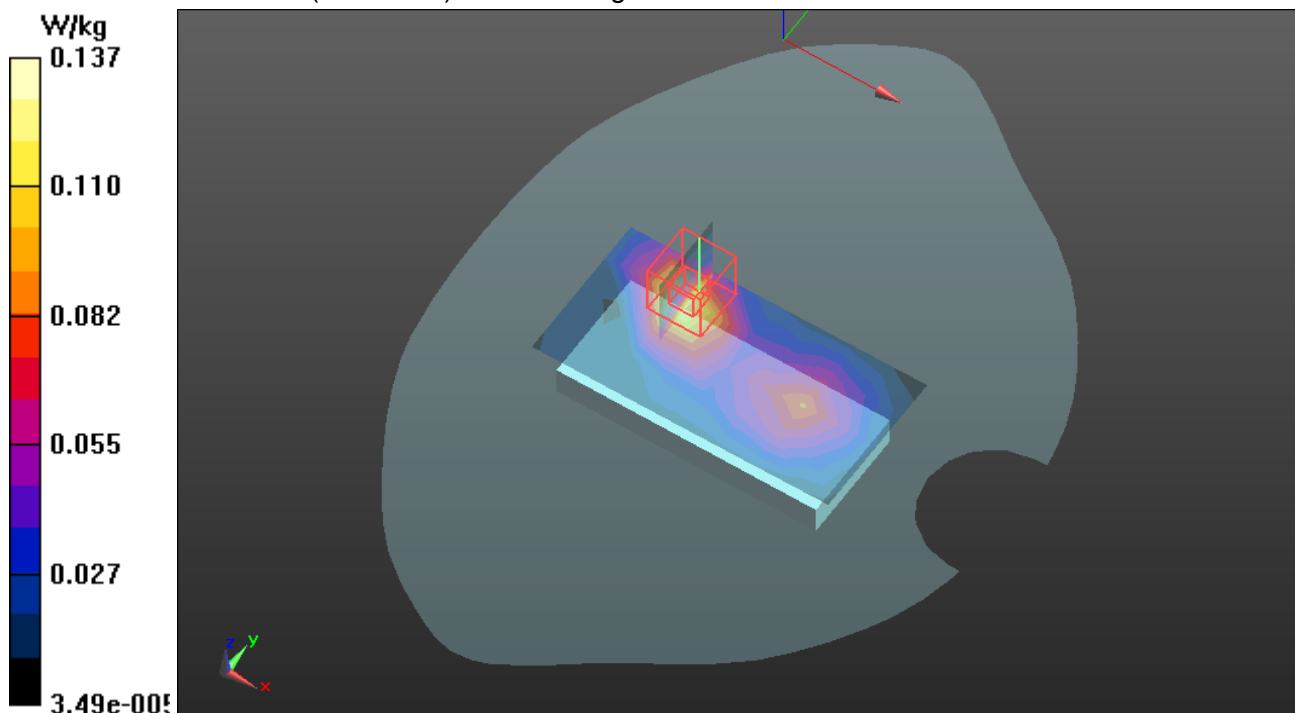
GSM1900/GSM1900 Body Up High CH810/Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=8mm

Reference Value = 5.396 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.184 mW/g

SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.137 W/kg





Test Laboratory: Compliance Certification Services Inc.

January 10, 2013

PCS1900-Body Down High CH810

DUT: GSM Mobile Phone; Type: E9070; Serial: 135790246811220

Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);

Frequency: 1909.8 MHz; Duty Cycle: 1:8.29851

Room Ambient Temperature: 23.0°C; Liquid Temperature: 22.5°C

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.515$ mho/m; $\epsilon_r = 53.77$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASy5 (IEEE/IEC/ANSI C63.19-2007)

DASy Configuration:

- Probe: EX3DV4 - SN3798; ConvF(7.29, 7.29, 7.29); Calibrated: 7/25/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 7/20/2012
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- DASy52 52.8.2(969); SEMCAD X 14.6.6(6824)

GSM1900/GSM1900 Body Down High CH810/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.270 W/kg

GSM1900/GSM1900 Body Down High CH810/Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=8mm

Reference Value = 10.516 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.339 mW/g

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.265 W/kg

