



Applicant:	Kyocera
FCC ID:	V65S2150A1
Report #:	CT- S2150-9B1-0213_rev1

EXHIBIT 9 Appendix B1: SAR DISTRIBUTION PLOTS (HEAD)

CELL-BC0

Applicant:	Kyocera
FCC ID:	V65S2150A1
Report #:	CT- S2150-9B1-0213_rev1

Test Laboratory: Comptest/Kyocera

Date: 02/20/2013

FCC S2150 CDMA-800 BC-0 Left, Ch. 1013, Left Cheek

Communication System: CDMA-800, Frequency: 824.7 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Left Section

DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(6.04, 6.04, 6.04), Calibrated: 2/22/2012

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn530, Calibrated: 5/30/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature: Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 deg C

CDMA-800 Ch1013 LC/Area Scan (91x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.400 mW/g

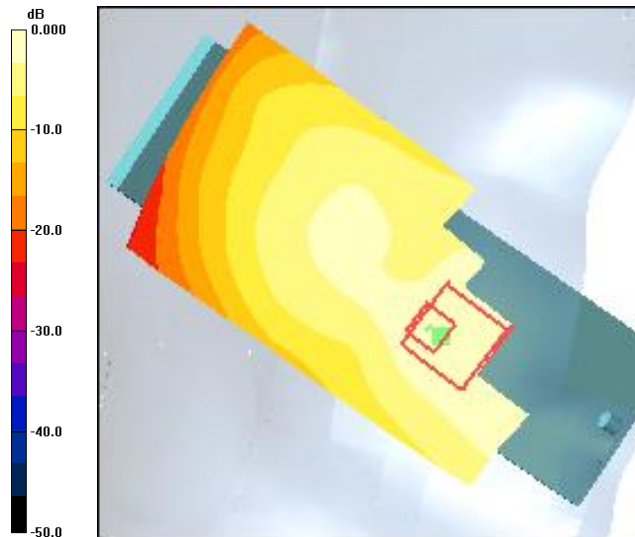
CDMA-800 Ch1013 LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.51 V/m; Power Drift = -0.170 dB

Peak SAR (extrapolated) = 0.744 W/kg

SAR(1 g) = 0.347 mW/g; SAR(10 g) = 0.231 mW/g

Maximum value of SAR (measured) = 0.373 mW/g



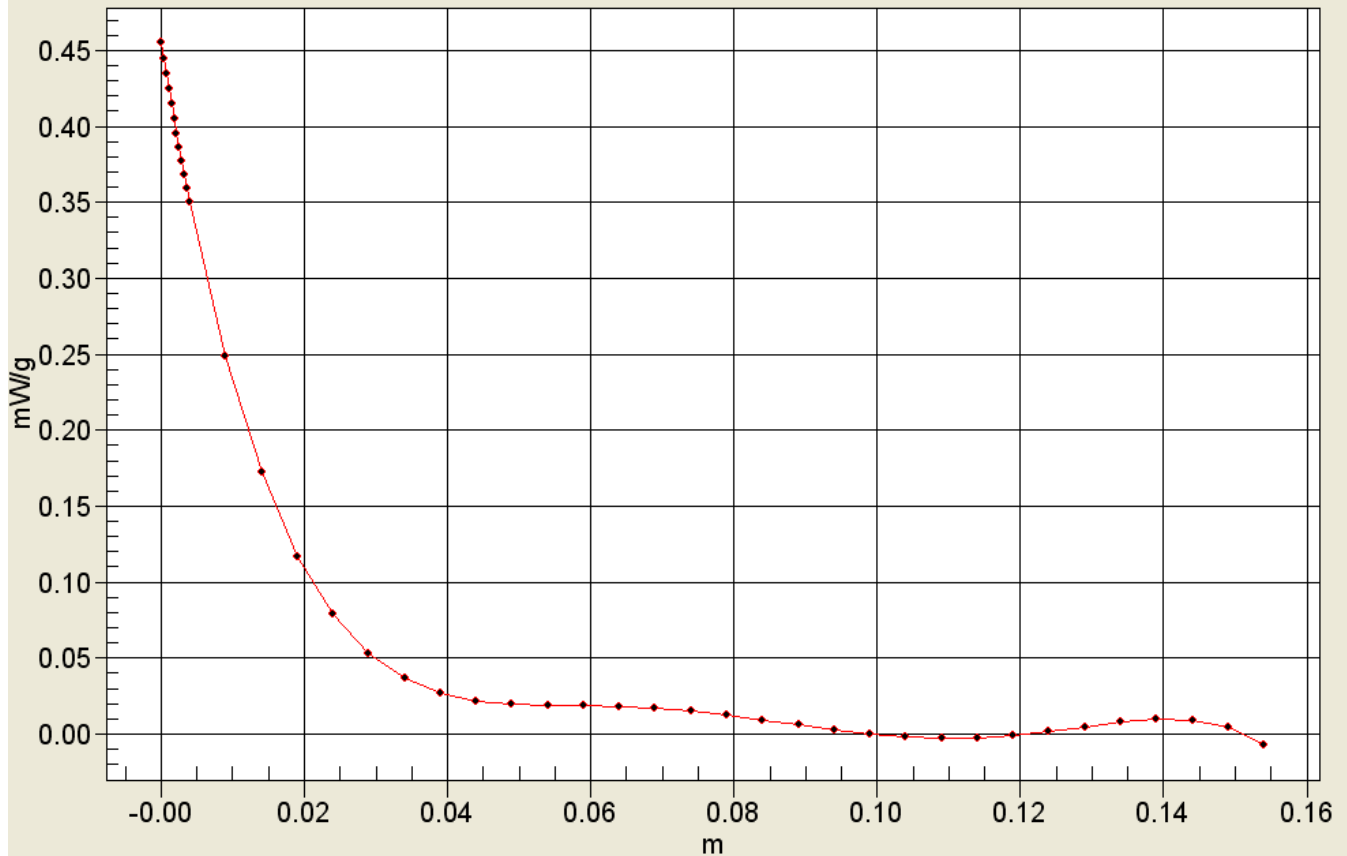
0 dB = 0.400mW/g



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Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



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Date: 02/20/2013

FCC S2150 CDMA-800 BC-0 Left, Ch. 1013, Left Tilt

Communication System: CDMA-800, Frequency: 824.7 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, Medium parameters used (interpolated): $f = 824.7 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 40.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Left Section

DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(6.04, 6.04, 6.04), Calibrated: 2/22/2012

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn530, Calibrated: 5/30/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature: Room T = 21.8 \pm 1 deg C, Liquid T = 22.0 \pm 1 deg C

CDMA-800 Ch1013 LT/Area Scan (91x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.154 mW/g

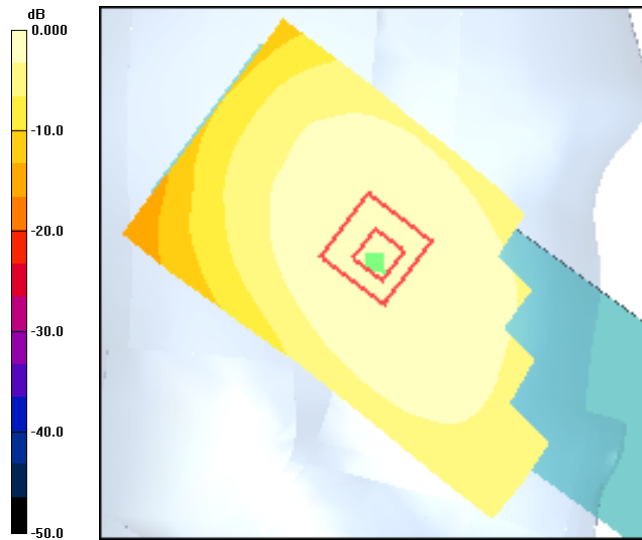
CDMA-800 Ch1013 LT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.56 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.188 W/kg

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.157 mW/g



0 dB = 0.154mW/g

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Test Laboratory: Comptest/Kyocera

Date: 02/20/2013

FCC S2150 CDMA-800 BC-0 Right, Ch. 1013, Right Cheek

Communication System: CDMA-800, Frequency: 824.7 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, Medium parameters used (interpolated): $f = 824.7$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Right Section

DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(6.04, 6.04, 6.04), Calibrated: 2/22/2012

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn530, Calibrated: 5/30/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature: Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 deg C

CDMA-800 Ch1013 RC/Area Scan (91x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.336 mW/g

CDMA-800 Ch1013 RC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.22 V/m; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 0.665 W/kg

SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.257 mW/g

Maximum value of SAR (measured) = 0.444 mW/g

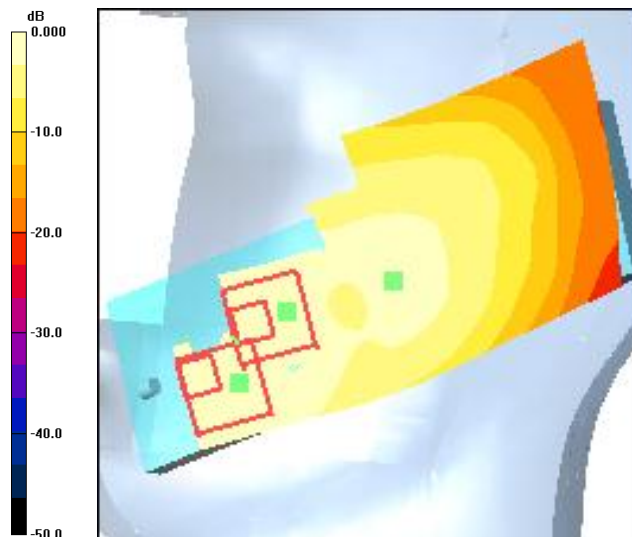
CDMA-800 Ch1013 RC/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.22 V/m; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.230 mW/g

Maximum value of SAR (measured) = 0.351 mW/g



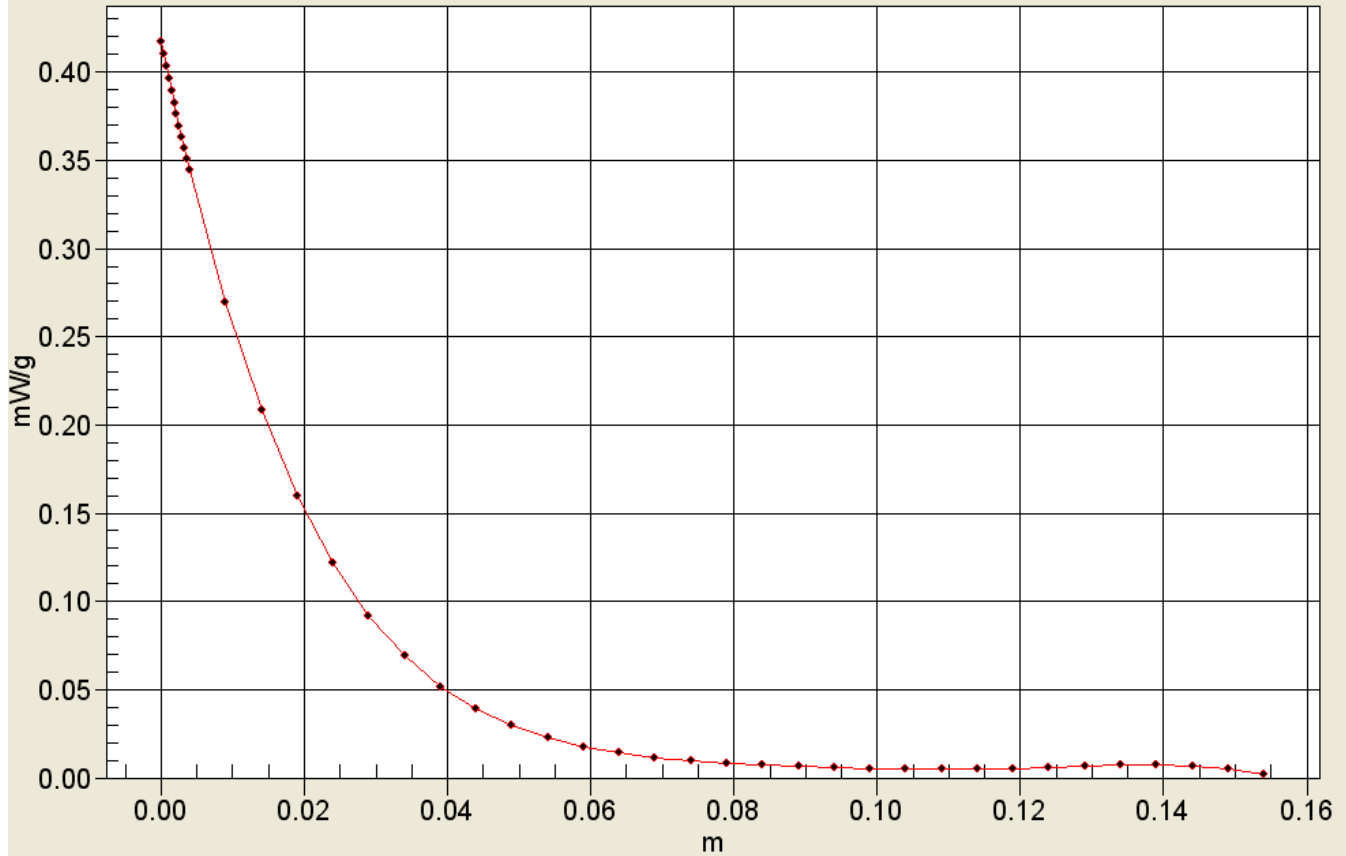
0 dB = 0.336mW/g



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Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



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Test Laboratory: Comptest/Kyocera

Date: 02/20/2013

FCC S2150 CDMA-800 BC-0 Right, Ch. 1013, Right Tilt

Communication System: CDMA-800, Frequency: 824.7 MHz, Duty Cycle: 1:1

Medium: Head 835 MHz, Medium parameters used (interpolated): $f = 824.7 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 40.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Right Section

DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(6.04, 6.04, 6.04), Calibrated: 2/22/2012

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn530, Calibrated: 5/30/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature: Room T = 21.8 $\square\square\square 1 \text{ deg C}$, Liquid T = 22.0 $\square\square\square 1 \text{ deg C}$

CDMA-800 Ch1013 RT/Area Scan (91x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.200 mW/g

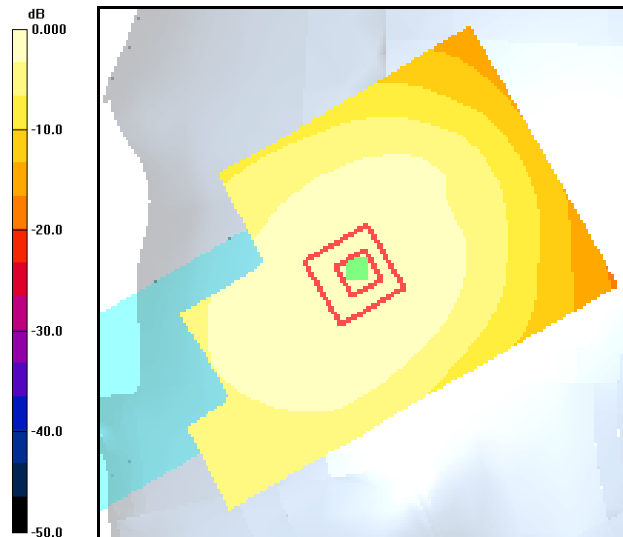
CDMA-800 Ch1013 RT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.12 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.235 W/kg

SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.148 mW/g

Maximum value of SAR (measured) = 0.204 mW/g



0 dB = 0.200mW/g

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PCS

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Test Laboratory: Comptest/Kyocera

Date: 02/18/2013

FCC S2150 CDMA-1900 Left, Ch. 25, Left Cheek

Communication System: CDMA-1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1851.25$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 38.45$; $\rho = 1000$ kg/m³
 Phantom section: Left Section
 Meas. Ambient Temp(celsius) = 22.10; Tissue Temp(celsius) = 21.40
 DASY Configuration:

- Probe: ET3DV6 - SN1618; ConvF(5.04, 5.04, 5.04); Calibrated: 9/19/2011;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -2.3, 32.7$
- Electronics: DAE4 Sn675; Calibrated: 5/23/2012
- Phantom: SAM 12; Type: SAM; Serial: TP-1148
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

PCS Head Left, 021813/CDMA-1900_Ch25 LC/Area Scan (81x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.44 W/kg

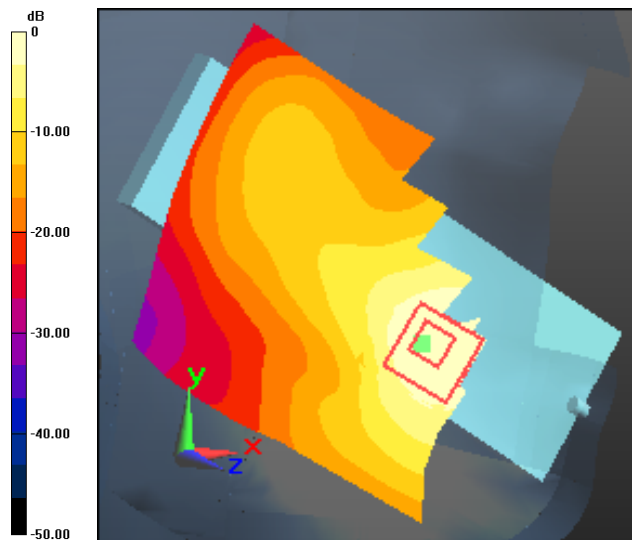
PCS Head Left, 021813/CDMA-1900_Ch25 LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.987 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 1.4 W/kg; SAR(10 g) = 0.782 W/kg

Maximum value of SAR (measured) = 1.56 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

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Test Laboratory: Comptest/Kyocera

Date: 02/18/2013

FCC S2150 CDMA-1900 Left, Ch. 600, Left Cheek

Communication System: CDMA-1900; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 38.45$; $\rho = 1000$ kg/m³
 Phantom section: Left Section
 Meas. Ambient Temp(celsius) = 22.10; Tissue Temp(celsius) = 21.40

DASY Configuration:

- Probe: ET3DV6 - SN1618; ConvF(5.04, 5.04, 5.04); Calibrated: 9/19/2011;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -2.3, 32.7$
- Electronics: DAE4 Sn675; Calibrated: 5/23/2012
- Phantom: SAM 12; Type: SAM; Serial: TP-1148
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

PCS Head Left, 021813/CDMA-1900_CH600 LC/Area Scan (81x51x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.50 W/kg

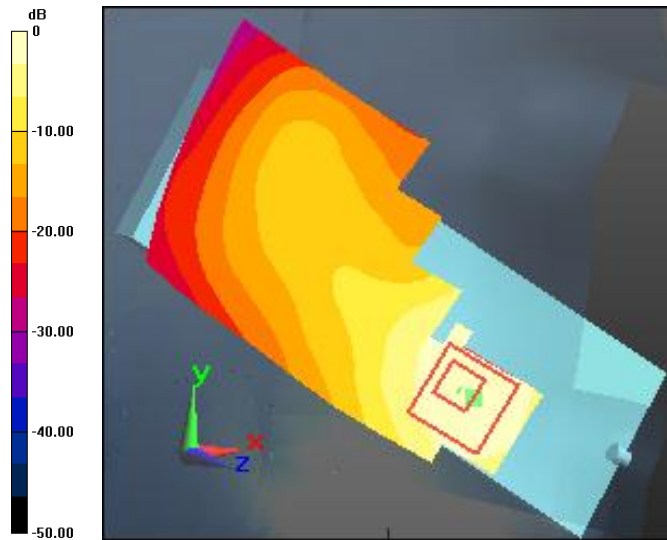
PCS Head Left, 021813/CDMA-1900_CH600 LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.123 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 1.45 W/kg; SAR(10 g) = 0.815 W/kg

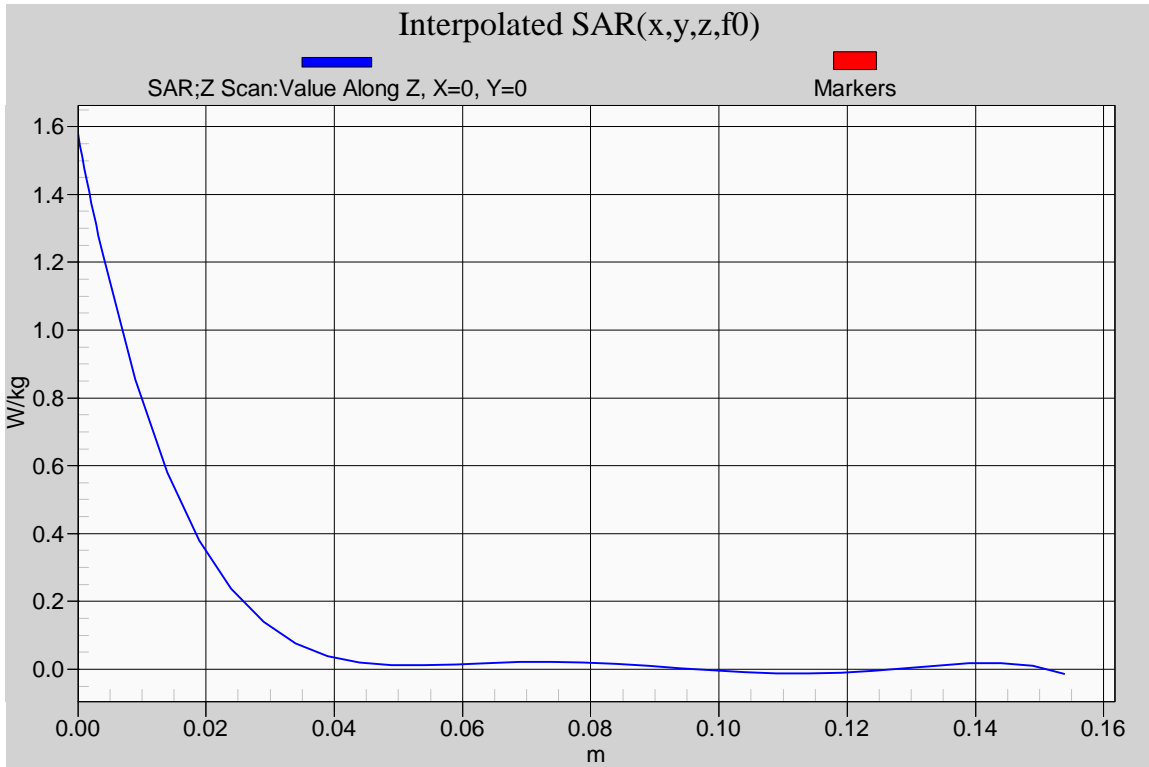
Maximum value of SAR (measured) = 1.63 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg



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Test Laboratory: Comptest/Kyocera

Date: 02/18/2013

FCC S2150 CDMA-1900 Left, Ch. 1175, Left Cheek

Communication System: CDMA-1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.75$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 38.45$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Meas. Ambient Temp(celsius) = 22.10; Tissue Temp(celsius) = 21.40

DASY Configuration:

- Probe: ET3DV6 - SN1618; ConvF(5.04, 5.04, 5.04); Calibrated: 9/19/2011;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -2.3, 32.7$
- Electronics: DAE4 Sn675; Calibrated: 5/23/2012
- Phantom: SAM 12; Type: SAM; Serial: TP-1148
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

PCS Head Left, 021813/CDMA-1900_Ch 1175 LC/Area Scan (81x51x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.890 W/kg

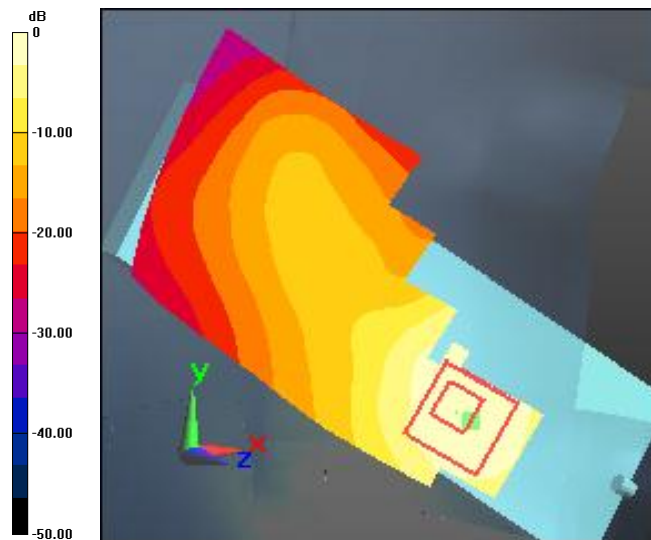
PCS Head Left, 021813/CDMA-1900_Ch 1175 LC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.420 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.481 W/kg

Maximum value of SAR (measured) = 0.974 W/kg



0 dB = 0.890 W/kg = -0.51 dBW/kg

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Test Laboratory: Comptest/Kyocera

Date: 02/19/2013

FCC S2150 CDMA-1900 Left, Ch. 600, Left Tilt

Communication System: CDMA-1900; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 38.52$; $\rho = 1000$ kg/m³
 Phantom section: Left Section
 Meas. Ambient Temp(celsius) = 22.10; Tissue Temp(celsius) = 21.40
 DASY Configuration:

- Probe: ET3DV6 - SN1618; ConvF(5.04, 5.04, 5.04); Calibrated: 9/19/2011;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -2.3, 32.7$
- Electronics: DAE4 Sn675; Calibrated: 5/23/2012
- Phantom: SAM 12; Type: SAM; Serial: TP-1148
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

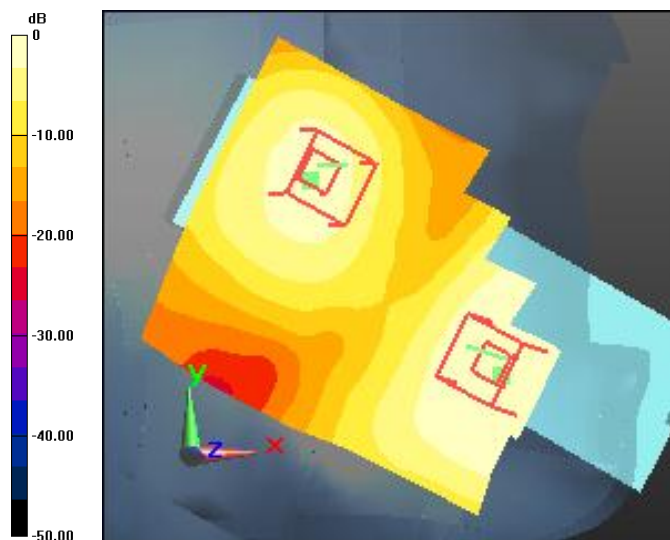
PCS Head Left/CDMA-1900_CH600 LT/Area Scan (81x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Maximum value of SAR (interpolated) = 0.203 W/kg

PCS Head Left/CDMA-1900_CH600 LT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.316 V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 0.259 W/kg
SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.120 W/kg
 Maximum value of SAR (measured) = 0.190 W/kg

PCS Head Left/CDMA-1900_CH600 LT/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.316 V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 0.183 W/kg
SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.083 W/kg
 Maximum value of SAR (measured) = 0.139 W/kg



0 dB = 0.203 W/kg = -6.93 dBW/kg

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Test Laboratory: Comptest/Kyocera

Date: 02/19/2013

FCC S2150 CDMA-1900 Right, Ch. 600, Right Cheek

Communication System: CDMA-1900; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 38.52$; $\rho = 1000$ kg/m³
 Phantom section: Right Section
 Meas. Ambient Temp(celsius) = 22.10; Tissue Temp(celsius) = 21.40
 DASY Configuration:

- Probe: ET3DV6 - SN1618; ConvF(5.04, 5.04, 5.04); Calibrated: 9/19/2011;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -2.3, 32.7$
- Electronics: DAE4 Sn675; Calibrated: 5/23/2012
- Phantom: SAM 12; Type: SAM; Serial: TP-1148
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

PCS Head Right/CDMA-1900 Ch600 RC/Area Scan (81x51x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Maximum value of SAR (interpolated) = 0.599 W/kg

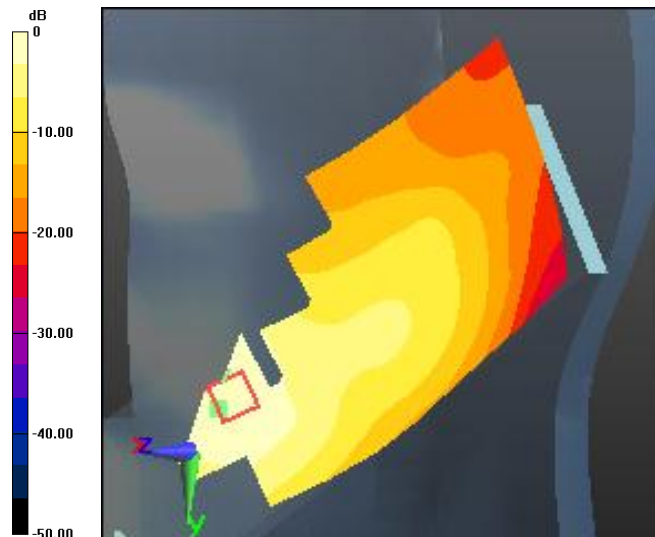
PCS Head Right/CDMA-1900 Ch600 RC/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.821 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.935 W/kg

SAR(1 g) = 0.591 W/kg; SAR(10 g) = n.a.

Maximum value of SAR (measured) = 0.677 W/kg



0 dB = 0.677 W/kg = -1.69 dBW/kg

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Test Laboratory: Comptest/Kyocera

Date: 02/19/2013

FCC S2150 CDMA-1900 Right, Ch. 600, Right Tilt

Communication System: CDMA-1900; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 38.52$; $\rho = 1000$ kg/m³
 Phantom section: Right Section
 Meas. Ambient Temp(celsius) = 22.10; Tissue Temp(celsius) = 21.40
 DASY Configuration:

- Probe: ET3DV6 - SN1618; ConvF(5.04, 5.04, 5.04); Calibrated: 9/19/2011;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -2.3, 32.7$
- Electronics: DAE4 Sn675; Calibrated: 5/23/2012
- Phantom: SAM 12; Type: SAM; Serial: TP-1148
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

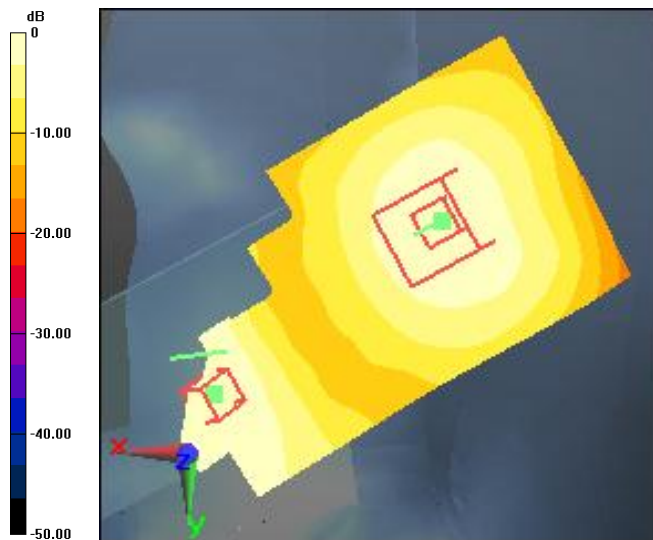
PCS Head Right/CDMA-1900 Ch600 RT/Area Scan (81x51x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Maximum value of SAR (interpolated) = 0.155 W/kg

PCS Head Right/CDMA-1900 Ch600 RT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.721 V/m; Power Drift = 0.11 dB
 Peak SAR (extrapolated) = 0.200 W/kg
SAR(1 g) = 0.129 W/kg; SAR(10 g) = n.a.
 Maximum value of SAR (measured) = 0.153 W/kg

PCS Head Right/CDMA-1900 Ch600 RT/Zoom Scan (7x7x7)/Cube 1: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.721 V/m; Power Drift = 0.11 dB
 Peak SAR (extrapolated) = 0.170 W/kg
SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.077 W/kg
 Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.155 W/kg = -8.10 dBW/kg

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Date: 4/15/2013

Test Laboratory: Comptest/Kyocera

FCC S2150 CDMA-1900, Right, Ch.600, Flat-Jaw

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1

Medium: Head 1900 MHz, Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

Phantom: SAM_4, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1618, ConvF(5.17, 5.17, 5.17), Calibrated: 9/13/2012

Sensor-Surface: 4mm (Mechanical Surface Detection),

Electronics: DAE4 Sn530, Calibrated: 5/30/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature: Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

CDMA-1900 Ch600 Flat Jaw/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.603 mW/g

CDMA-1900 Ch600 Flat Jaw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.2 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.784 W/kg

SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.354 mW/g

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

CDMA-1900 Ch600 Flat Jaw/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.2 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.468 mW/g; SAR(10 g) = 0.267 mW/g

Maximum value of SAR (measured) = 0.519 mW/g

