



Applicant:	Kyocera
FCC ID:	OVF-K33BIC04
Report #:	CT- S1310-9B1-0612-R0

**EXHIBIT 9 Appendix B1: SAR DISTRIBUTION PLOTS (HEAD)**

**PCS**

Applicant:	Kyocera
FCC ID:	OVF-K33BIC04
Report #:	CT- S1310-9B1-0612-R0

Test Laboratory: Comptest/Kyocera

Date: 06/01/2012

**FCC S1310 CDMA-1900 Left, Ch. 25, Left Cheek**

Communication System: CDMA-1900, Frequency: 1851.25 MHz, Duty Cycle: 1:1

Medium: HSL1900, Medium parameters used (interpolated):  $f = 1851.25$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Left Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.04, 5.04, 5.04), Calibrated: 9/19/2011

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

Electronics: DAE4 Sn603, Calibrated: 9/27/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:** Room T = 21.8  $\square\square\square$  1 deg C, Liquid T = 22.0  $\square\square\square$  1 deg C

**CDMA-1900\_Ch25 LC/Area Scan (91x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.31 mW/g

**CDMA-1900\_Ch25 LC/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 1.63 W/kg

**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.698 mW/g**

Maximum value of SAR (measured) = 1.27 mW/g

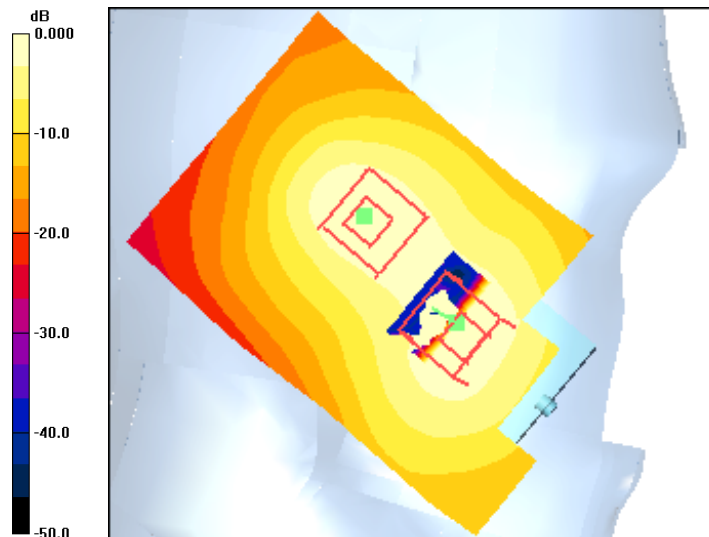
**CDMA-1900\_Ch25 LC/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 3.10 W/kg

**SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.487 mW/g**

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

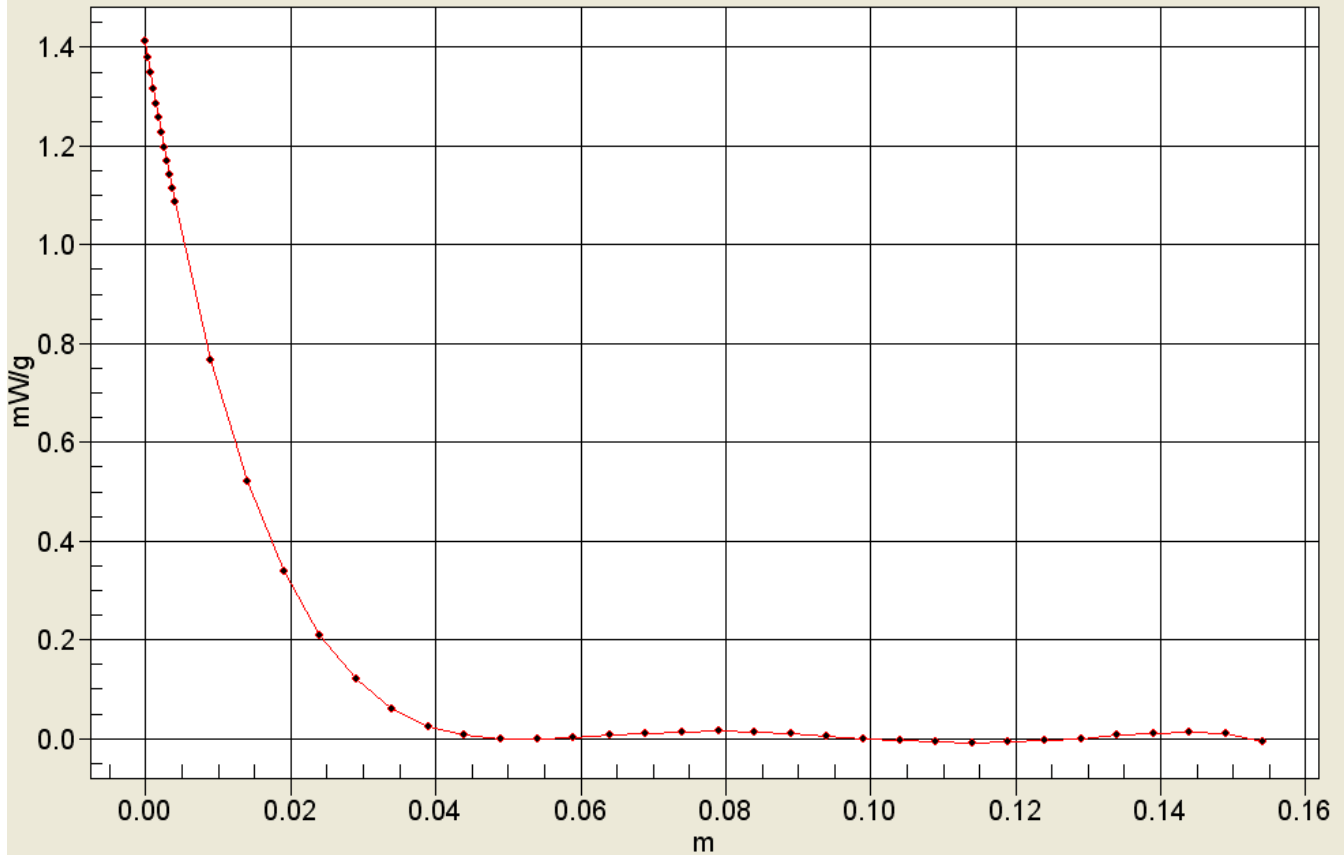


0 dB = 1.31mW/g



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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: 06/01/2012

**FCC S1310 CDMA-1900 Left, Ch. 600, Left Cheek**

Communication System: CDMA-1900, Frequency: 1880 MHz, Duty Cycle: 1:1  
 Medium: HSL1900, Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.42 \text{ mho/m}$ ;  $\epsilon_r = 39.1$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Phantom: SAM 12, Phantom section: Left Section

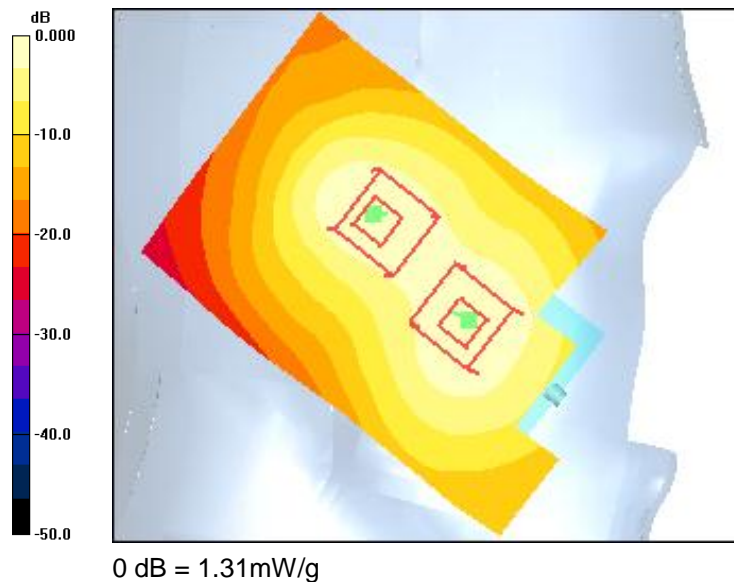
**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.04, 5.04, 5.04), Calibrated: 9/19/2011  
 Sensor-Surface: 4mm (Mechanical Surface Detection),  
 Electronics: DAE4 Sn603, Calibrated: 9/27/2011  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186  
**Temperature:** Room T = 21.8  $\square\square\square$  1 deg C, Liquid T = 22.0  $\square\square\square$  1 deg C

**CDMA-1900\_CH600 LC/Area Scan (91x61x1):** Measurement grid: dx=15mm, dy=15mm  
 Maximum value of SAR (interpolated) = 1.31 mW/g

**CDMA-1900\_CH600 LC/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 11.5 V/m; Power Drift = -0.183 dB  
 Peak SAR (extrapolated) = 1.56 W/kg  
**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.676 mW/g**  
 Maximum value of SAR (measured) = 1.21 mW/g

**CDMA-1900\_CH600 LC/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 11.5 V/m; Power Drift = -0.183 dB  
 Peak SAR (extrapolated) = 1.46 W/kg  
**SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.637 mW/g**  
 Maximum value of SAR (measured) = 1.11 mW/g



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**FCC S1310 CDMA-1900 Left, Ch. 1175, Left Cheek**

Communication System: CDMA-1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1  
 Medium: HSL1900, Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Left Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.04, 5.04, 5.04), Calibrated: 9/19/2011

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

Electronics: DAE4 Sn603, Calibrated: 9/27/2011

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-1900\_Ch 1175 LC/Area Scan (91x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.24 mW/g

**CDMA-1900\_Ch 1175 LC/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.621 mW/g**

Maximum value of SAR (measured) = 1.10 mW/g

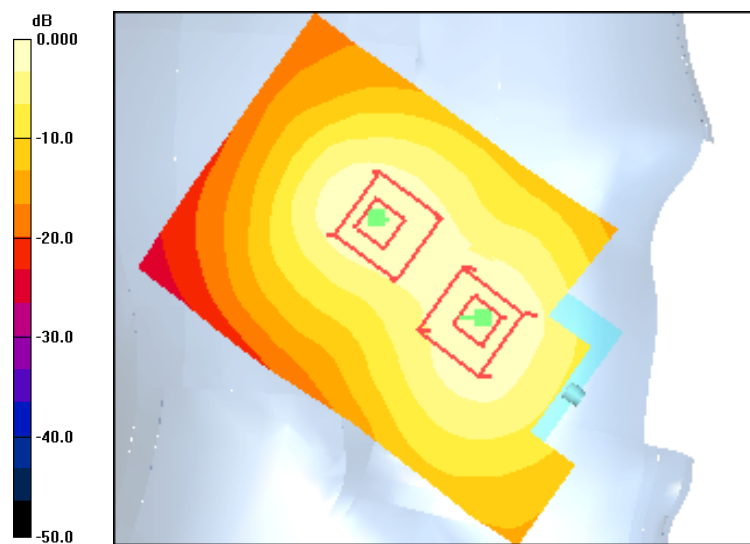
**CDMA-1900\_Ch 1175 LC/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.926 mW/g; SAR(10 g) = 0.573 mW/g**

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



0 dB = 1.24mW/g

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Test Laboratory: Comptest/Kyocera

Date: 06/01/2012

**FCC C5155 CDMA-1900 Left, Ch. 600, Left Tilt, Closed**

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

Medium: HSL1900, Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Left Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.04, 5.04, 5.04), Calibrated: 9/19/2011

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

Electronics: DAE4 Sn603, Calibrated: 9/27/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:** Room T = 21.8  $\square\square\square$  1 deg C, Liquid T = 22.0  $\square\square\square$  1 deg C

**CDMA-1900\_CH600 LT/Area Scan (91x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.740 mW/g

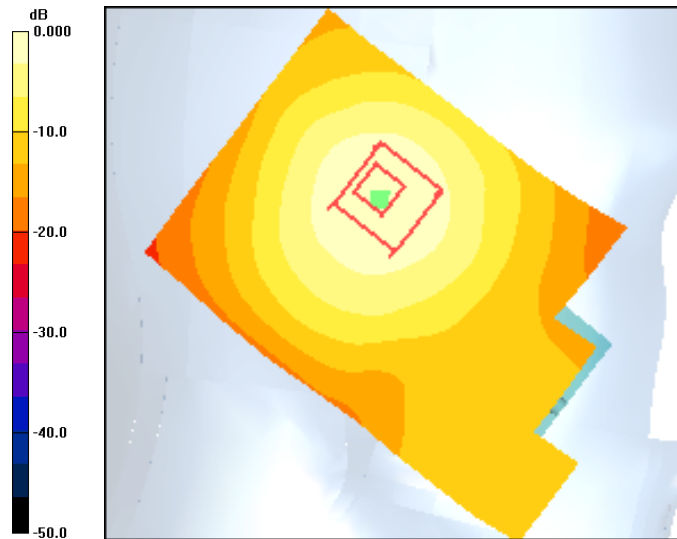
**CDMA-1900\_CH600 LT/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.988 W/kg

**SAR(1 g) = 0.659 mW/g; SAR(10 g) = 0.411 mW/g**

Maximum value of SAR (measured) = 0.714 mW/g



0 dB = 0.740mW/g

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Test Laboratory: Comptest/Kyocera

Date: 06/04/2012

**FCC S1310 CDMA-1900 Right, Ch. 25, Right Cheek**

Communication System: CDMA-1900, Frequency: 1851.25 MHz, Duty Cycle: 1:1  
 Medium: HSL1900, Medium parameters used (interpolated):  $f = 1851.25$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Right Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.04, 5.04, 5.04), Calibrated: 9/19/2011

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

Electronics: DAE4 Sn603, Calibrated: 9/27/2011

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-1900 Ch25 RC/Area Scan (91x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.28 mW/g

**CDMA-1900 Ch25 RC/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.710 mW/g**

Maximum value of SAR (measured) = 1.24 mW/g

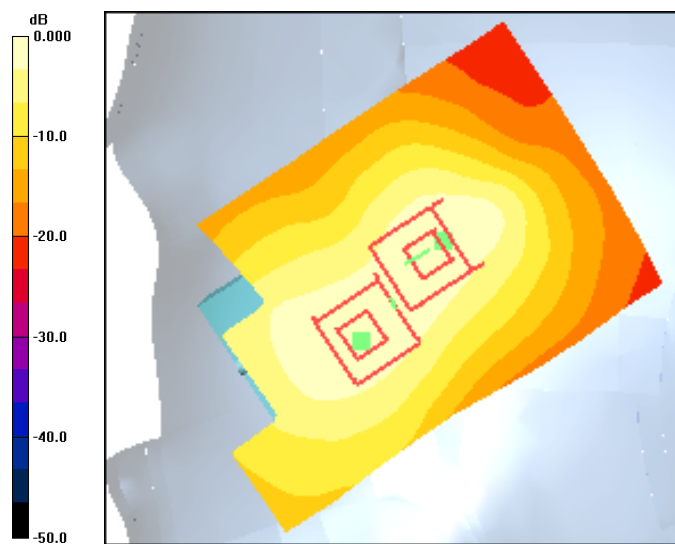
**CDMA-1900 Ch25 RC/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.648 mW/g**

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



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Date: 06/04/2012

**FCC S1310 CDMA-1900 Right, Ch. 600, Right Cheek**

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

Medium: HSL1900, Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Right Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.04, 5.04, 5.04), Calibrated: 9/19/2011

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

Electronics: DAE4 Sn603, Calibrated: 9/27/2011

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-1900 Ch600 RC/Area Scan (91x51x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.31 mW/g

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

Reference Value = 13.2 V/m; Power Drift = -0.164 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.733 mW/g**

Maximum value of SAR (measured) = 1.27 mW/g

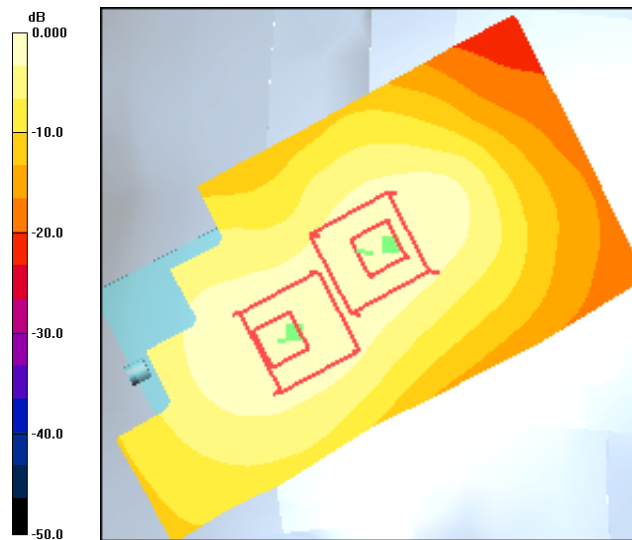
**CDMA-1900 Ch600 RC/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = -0.164 dB

Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.704 mW/g**

Maximum value of SAR (measured) = 1.24 mW/g

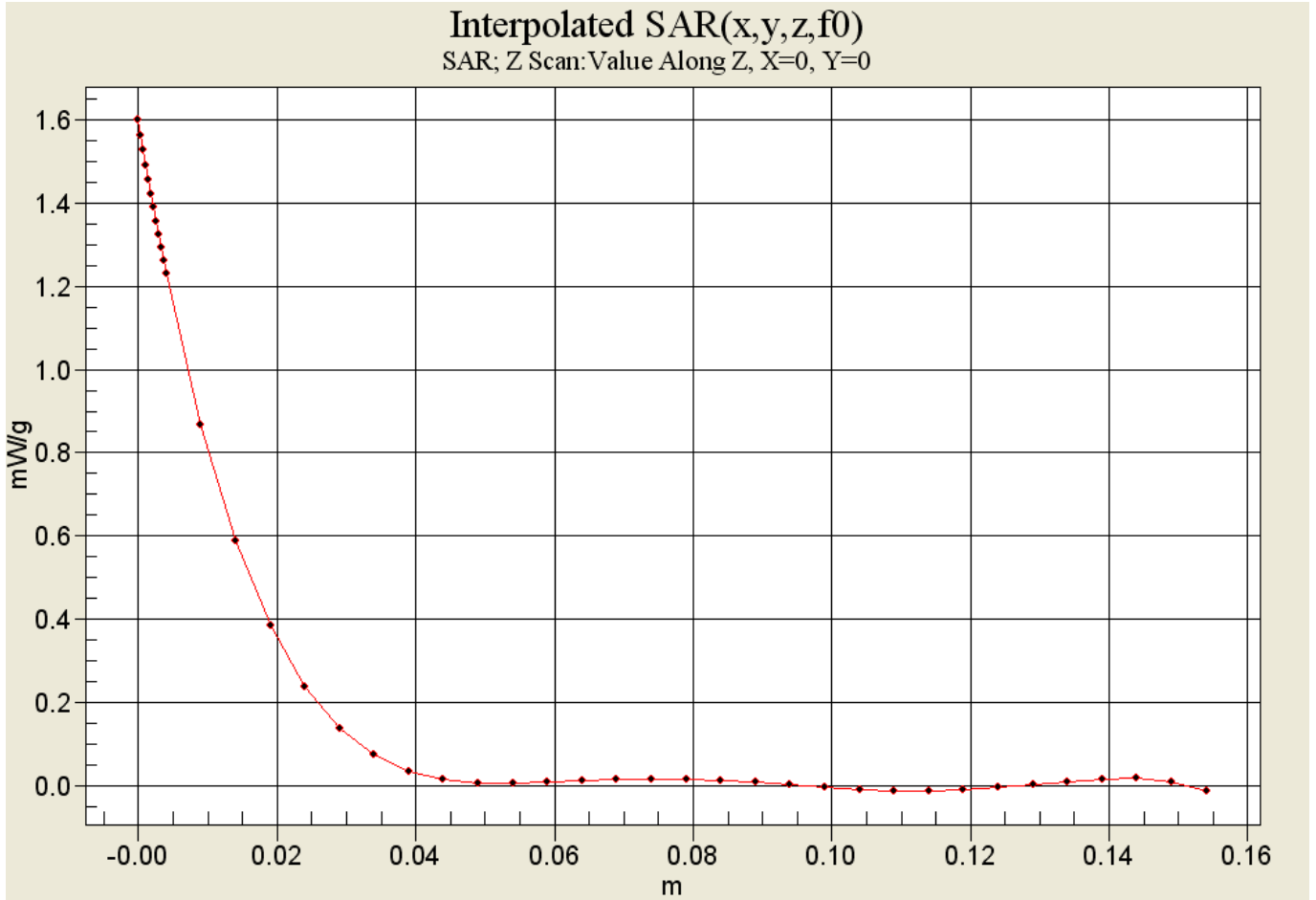


0 dB = 1.31mW/g





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Test Laboratory: Comptest/Kyocera

Date: 06/04/2012

**FCC S1310 CDMA-1900 Right, Ch. 1175, Right Cheek**

Communication System: CDMA-1900, Frequency: 1908.75 MHz, Duty Cycle: 1:1

Medium: HSL1900, Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Right Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.04, 5.04, 5.04), Calibrated: 9/19/2011

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

Electronics: DAE4 Sn603, Calibrated: 9/27/2011

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-1900 Ch1175 RC/Area Scan (91x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.39 mW/g

**CDMA-1900 Ch1175 RC/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.7 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 1.79 W/kg

**SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.733 mW/g**

Maximum value of SAR (measured) = 1.35 mW/g

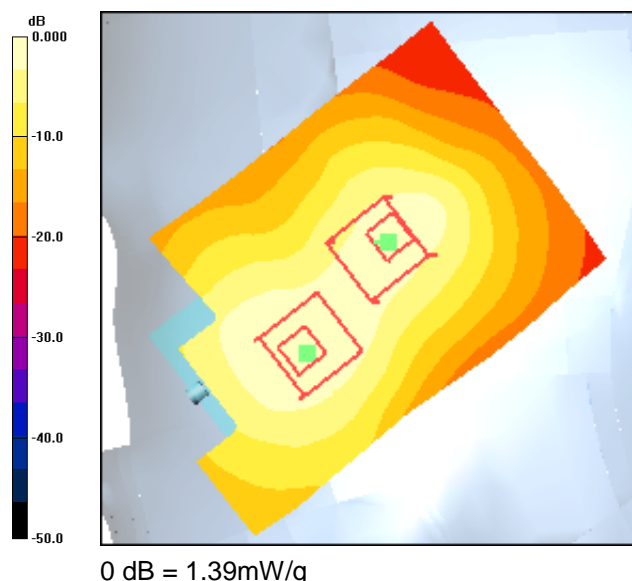
**CDMA-1900 Ch1175 RC/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.7 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.944 mW/g; SAR(10 g) = 0.588 mW/g**

Maximum value of SAR (measured) = 1.03 mW/g



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**FCC S1310 CDMA-1900 Right, Ch. 600, Right Tilt**

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

Medium: HSL1900, Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Right Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(5.04, 5.04, 5.04), Calibrated: 9/19/2011

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

Electronics: DAE4 Sn603, Calibrated: 9/27/2011

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-1900 Ch600 RT/Area Scan (91x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.743 mW/g

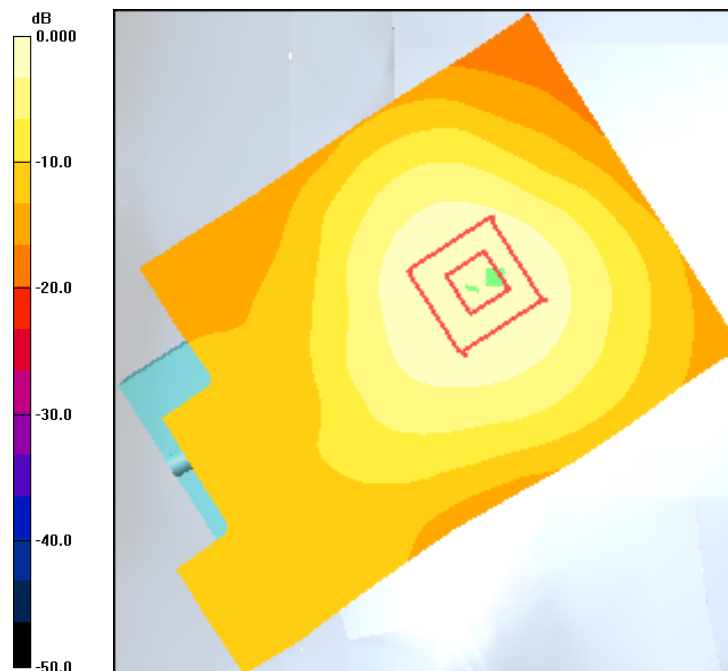
**CDMA-1900 Ch600 RT/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.8 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 0.930 W/kg

**SAR(1 g) = 0.654 mW/g; SAR(10 g) = 0.412 mW/g**

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



0 dB = 0.743mW/g