

Applicant:	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9A-0611-R0

EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS

## Validation for HEAD

Applicant:	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9A-0611-R0

Test Laboratory: Comptest/Kyocera

Date: 06/15/2011

**835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #467**

Communication System: CDMA, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: Head 835 MHz, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(6.52, 6.52, 6.52), Calibrated: 8/11/2010

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

Electronics: DAE4 Sn530, Calibrated: 5/5/2011

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

**835MHz Validation/Area Scan (61x121x1):** Measurement grid: dx=15mm, dy=15mm

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

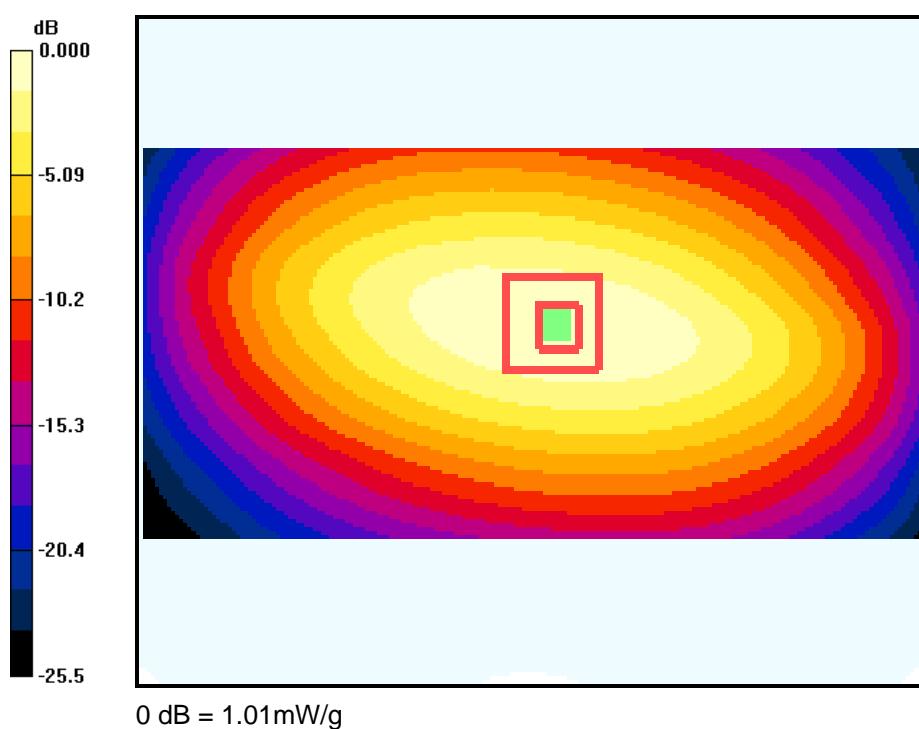
**835MHz Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.8 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 1.36 W/kg

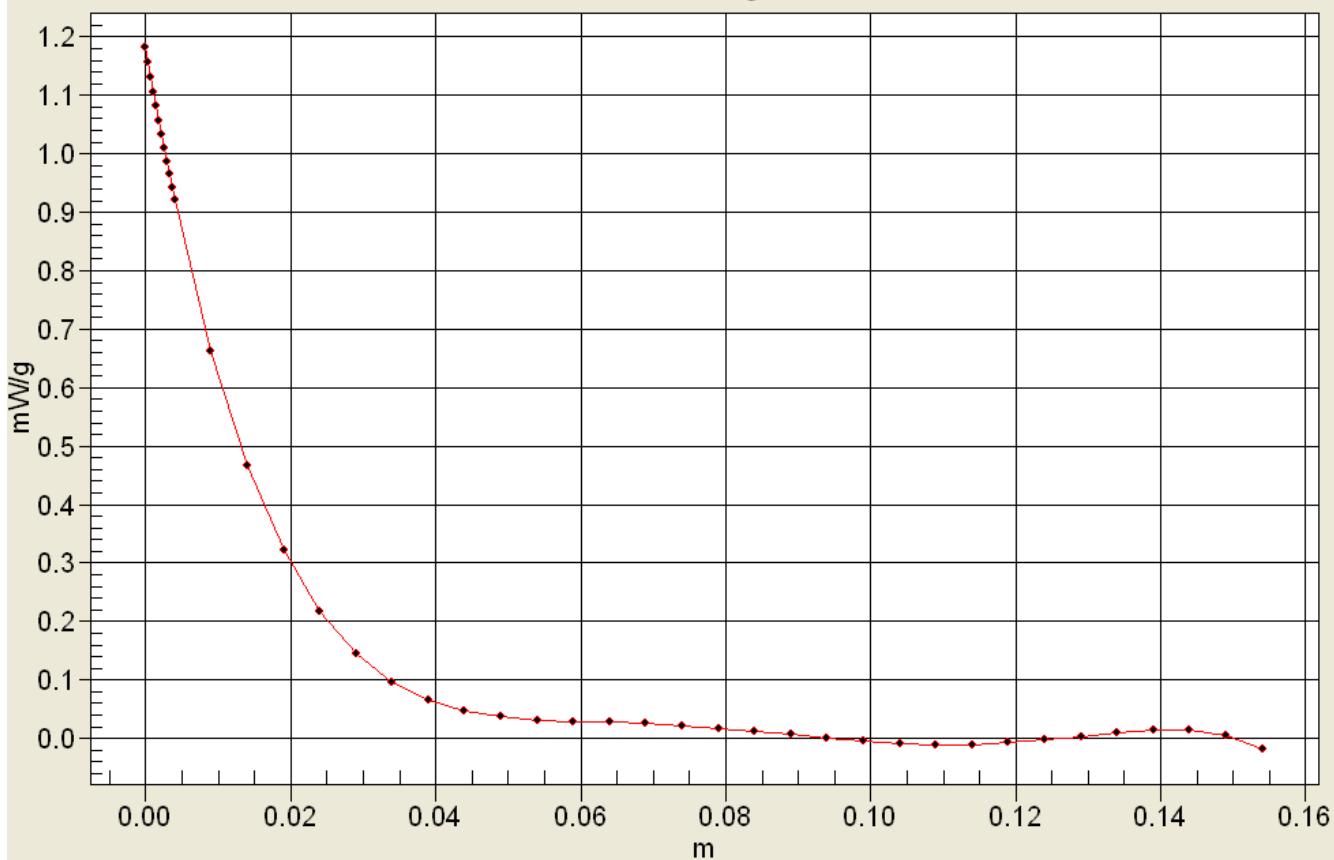
**SAR(1 g) = 0.933 mW/g; SAR(10 g) = 0.613 mW/g**

Maximum value of SAR (measured) = 1.00 mW/g



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



Applicant:	Kyocera
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Test Laboratory: Comptest/Kyocera

Date: 07/07/2011

**835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #467**

Communication System: CDMA, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: Head 835 MHz, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 41$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(6.52, 6.52, 6.52), Calibrated: 8/11/2010

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

Electronics: DAE4 Sn530, Calibrated: 5/5/2011

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

**835MHz Validation/Area Scan (61x121x1):** Measurement grid: dx=15mm, dy=15mm

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

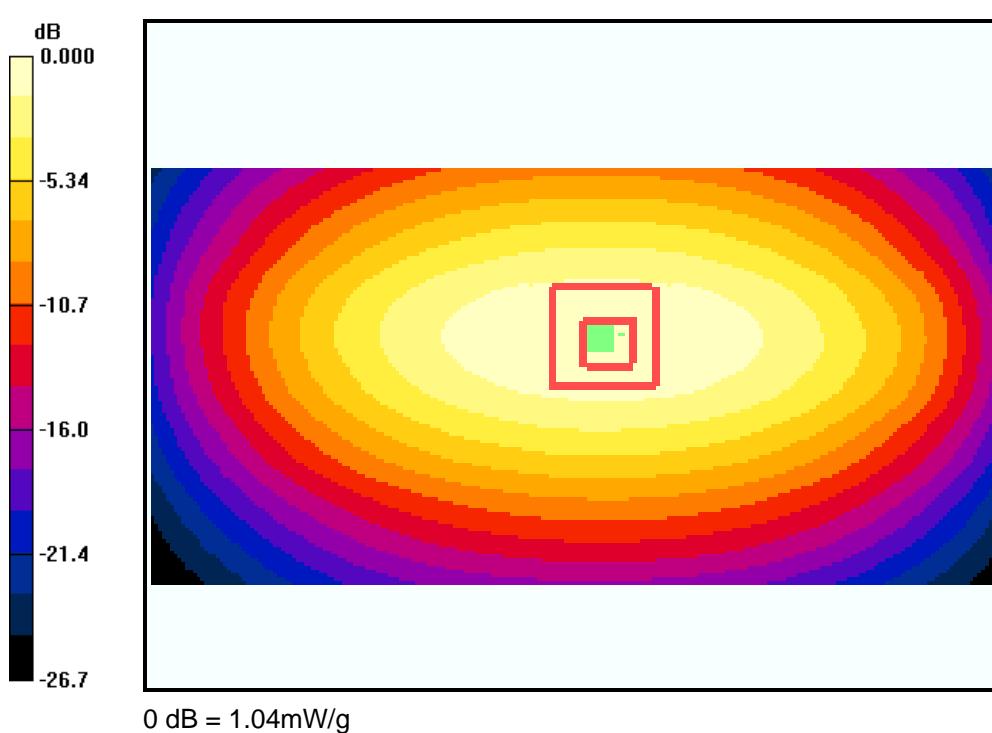
**835MHz Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.7 V/m; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 1.41 W/kg

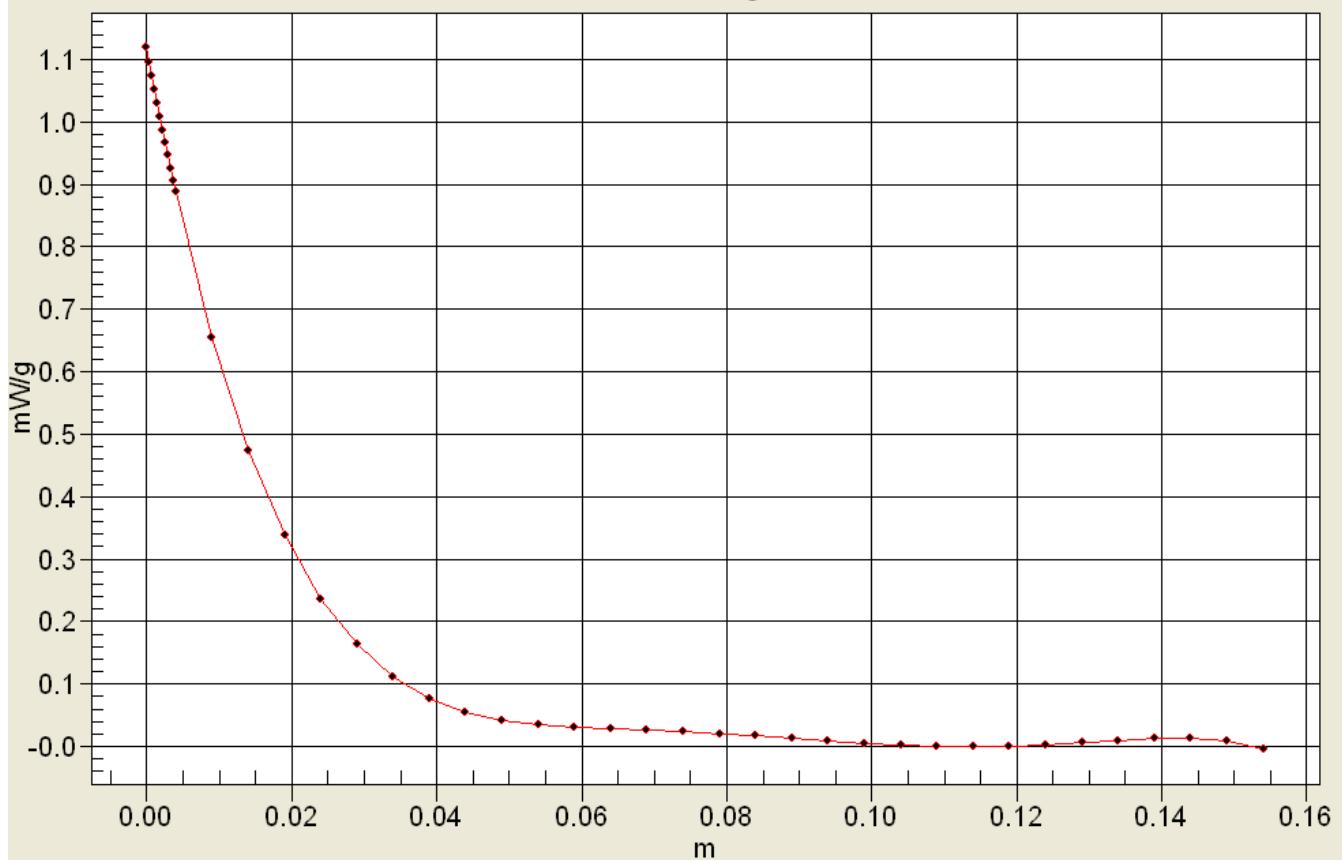
**SAR(1 g) = 0.970 mW/g; SAR(10 g) = 0.637 mW/g**

Maximum value of SAR (measured) = 1.04 mW/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: 06/14/2011

**1900Mhz Validation @ 20dBm Probe 3035, DAE 603 and Dipole 5d016**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

 Medium: HSL1900, Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3035, ConvF(5, 5, 5), Calibrated: 9/9/2010

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

Electronics: DAE4 Sn603, Calibrated: 9/20/2010

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

**1900MHz Validation @20dBm/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.70 mW/g

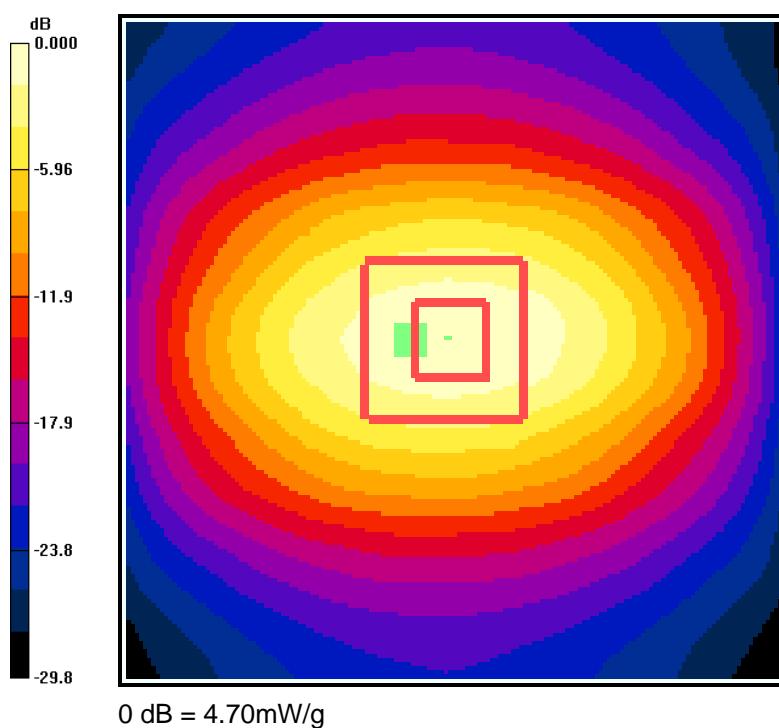
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.9 V/m; Power Drift = 0.012 dB

Peak SAR (extrapolated) = 7.21 W/kg

**SAR(1 g) = 4.02 mW/g; SAR(10 g) = 2.12 mW/g**

Maximum value of SAR (measured) = 4.56 mW/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: 06/16/2011

**1900Mhz Validation @ 20dBm Probe 3035, DAE 603 and Dipole 5d016**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

 Medium: HSL1900, Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3035, ConvF(5, 5, 5), Calibrated: 9/9/2010

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

Electronics: DAE4 Sn603, Calibrated: 9/20/2010

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

**1900MHz Validation @20dBm/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.51 mW/g

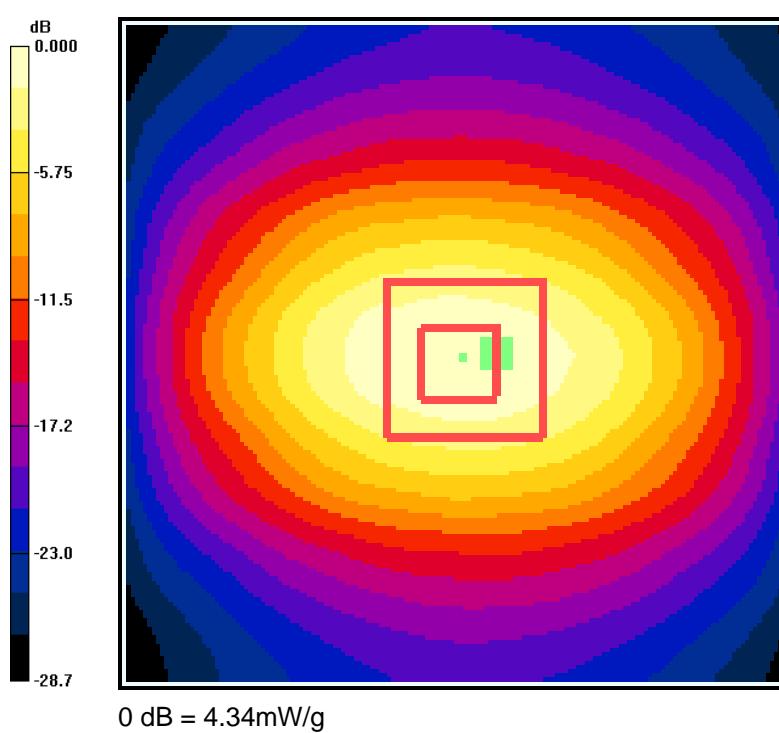
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.9 V/m; Power Drift = 0.084 dB

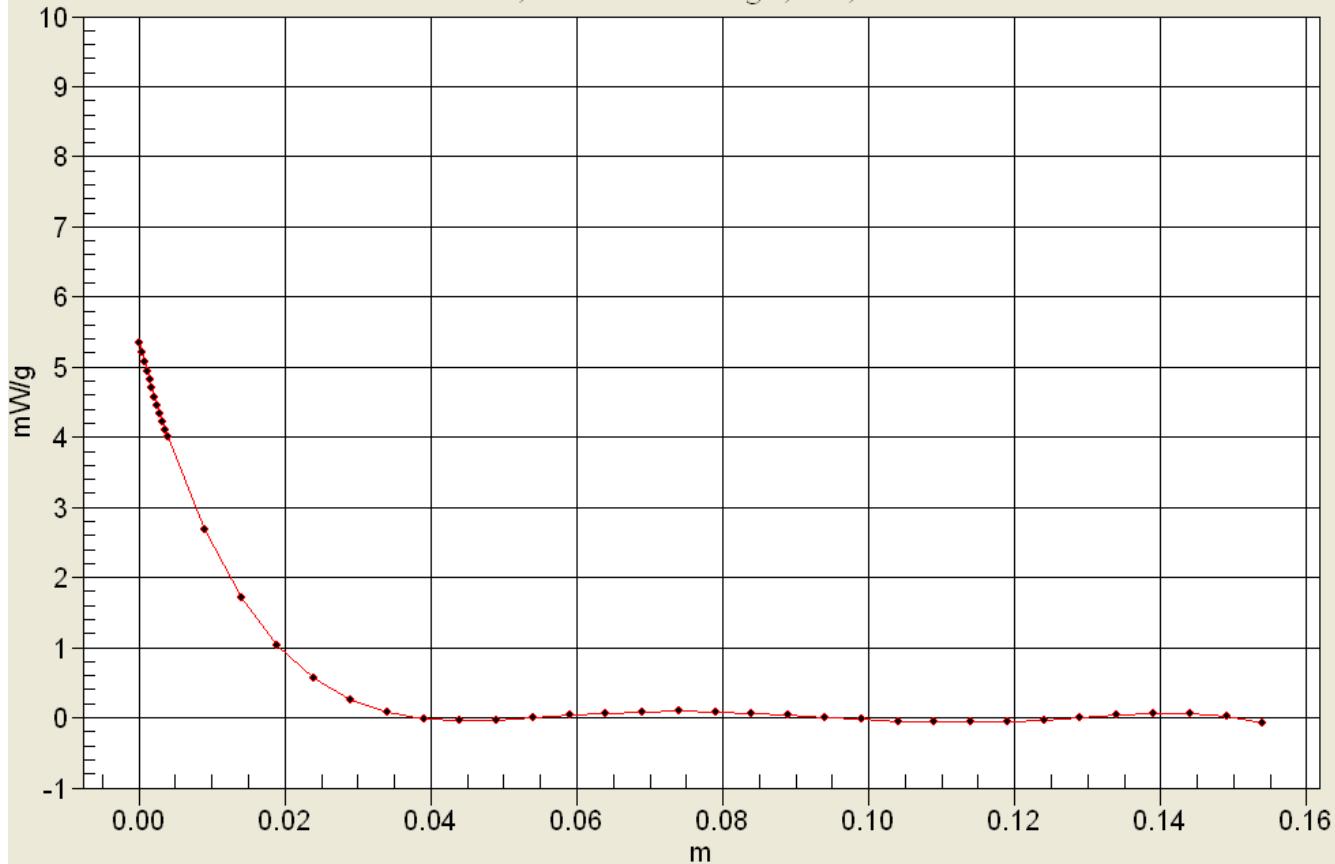
Peak SAR (extrapolated) = 6.91 W/kg

**SAR(1 g) = 3.86 mW/g; SAR(10 g) = 2.04 mW/g**

Maximum value of SAR (measured) = 4.34 mW/g



**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: 06/22/2011

**2450Mhz Validation (Head) @ 20dBm Probe 3036, DAE 603 and Dipole 776**

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1

 Medium: HSL2450, Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 38.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(4.44, 4.44, 4.44), Calibrated: 5/11/2011

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

Electronics: DAE4 Sn603, Calibrated: 9/20/2010

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

**2450MHz Validation @20dBm/Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 6.37 mW/g

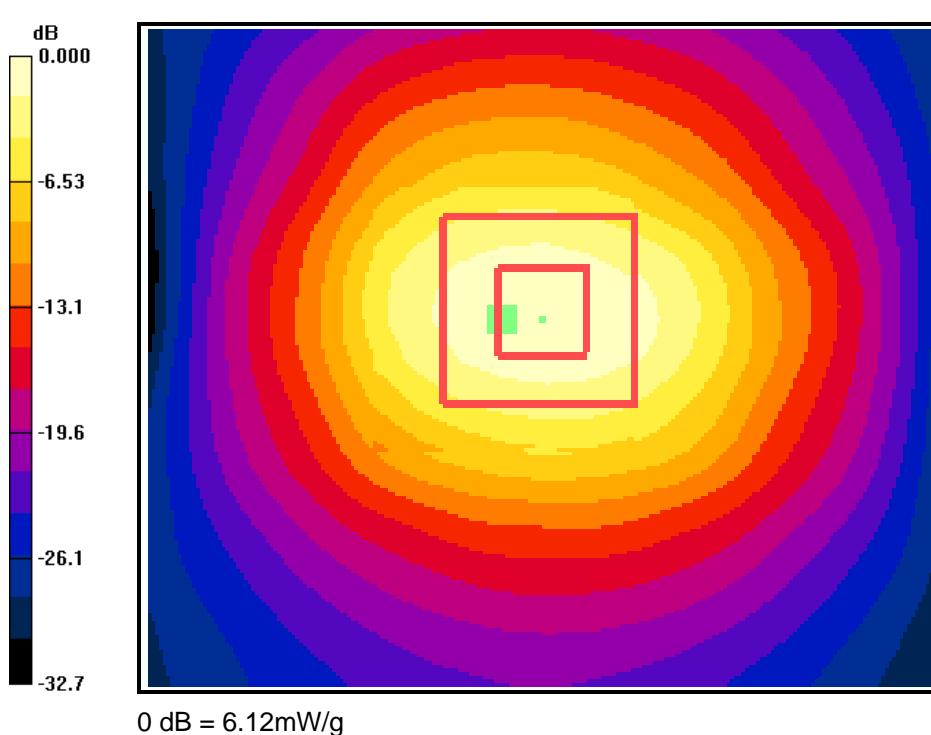
**2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.0 V/m; Power Drift = 0.006 dB

Peak SAR (extrapolated) = 11.4 W/kg

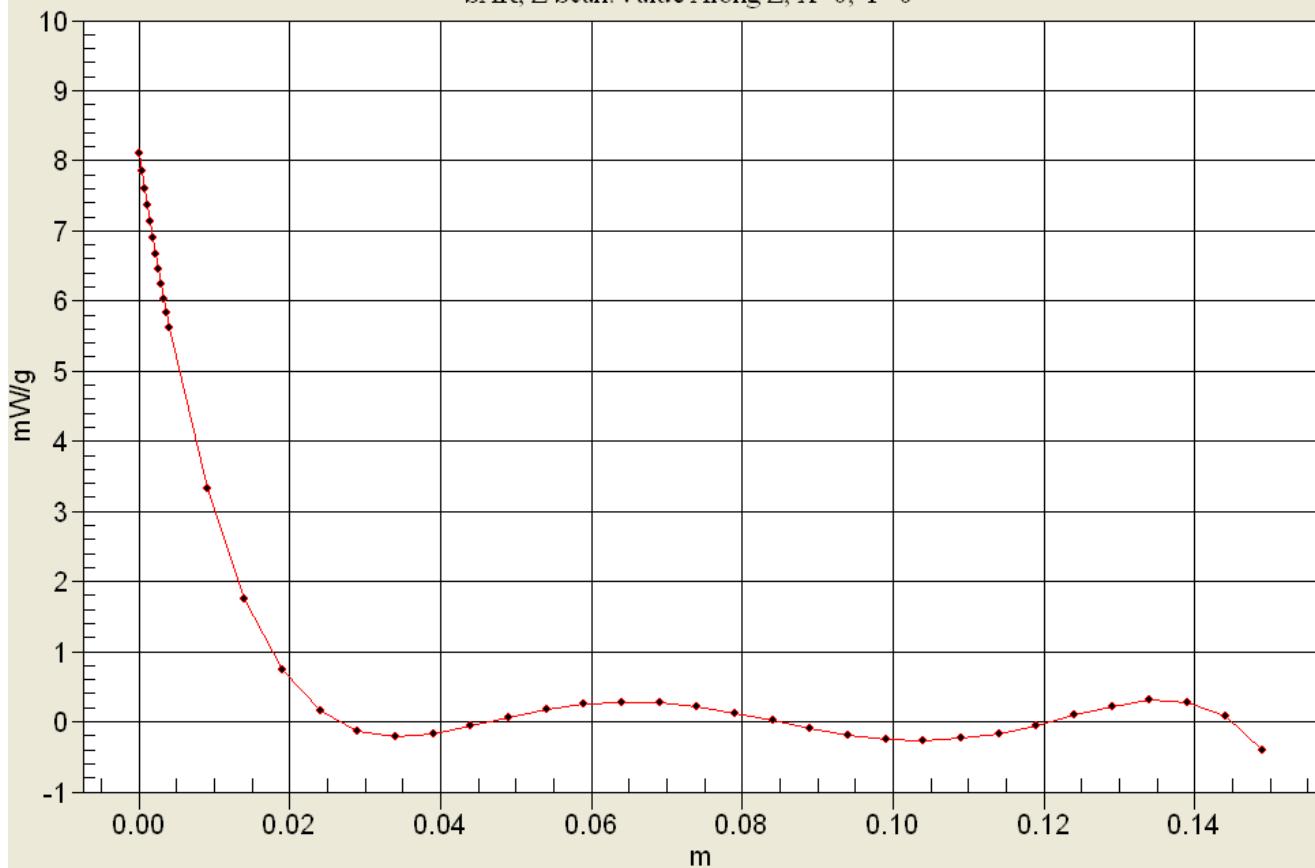
**SAR(1 g) = 5.31 mW/g; SAR(10 g) = 2.4 mW/g**

Maximum value of SAR (measured) = 6.12 mW/g



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



Applicant:	Kyocera
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Test Laboratory: Comptest/Kyocera

Date: 06/24/2011

**2450Mhz Validation (Head) @ 20dBm Probe 3036, DAE 603 and Dipole 776**

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1

 Medium: HSL2450, Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.86$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(4.44, 4.44, 4.44), Calibrated: 5/11/2011

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

Electronics: DAE4 Sn603, Calibrated: 9/20/2010

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

**2450MHz Validation @20dBm/Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 6.23 mW/g

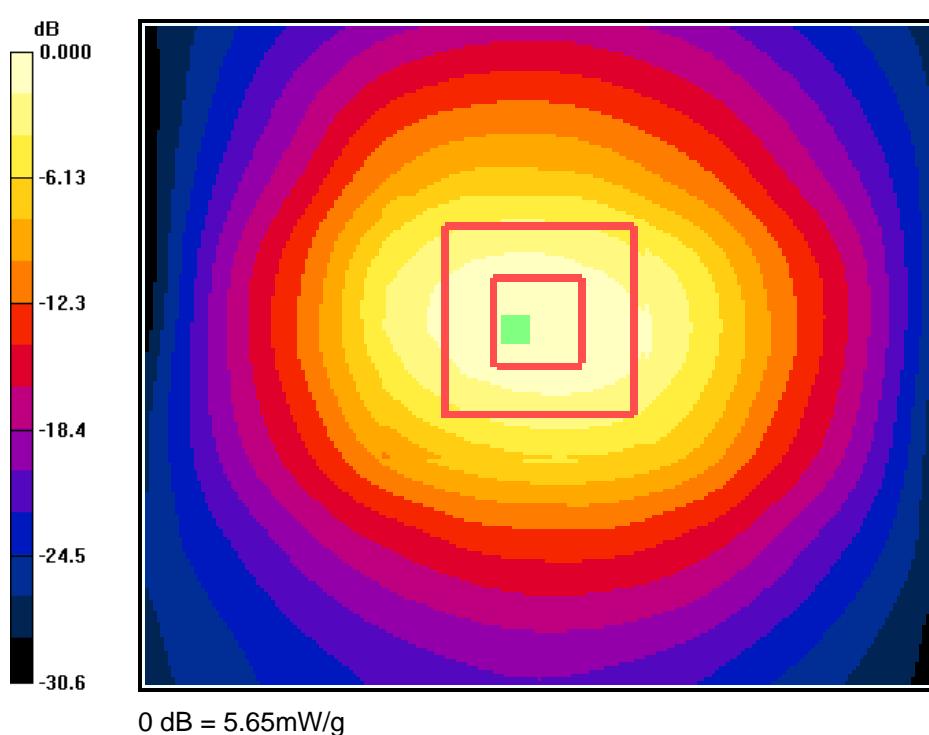
**2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.6 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 10.8 W/kg

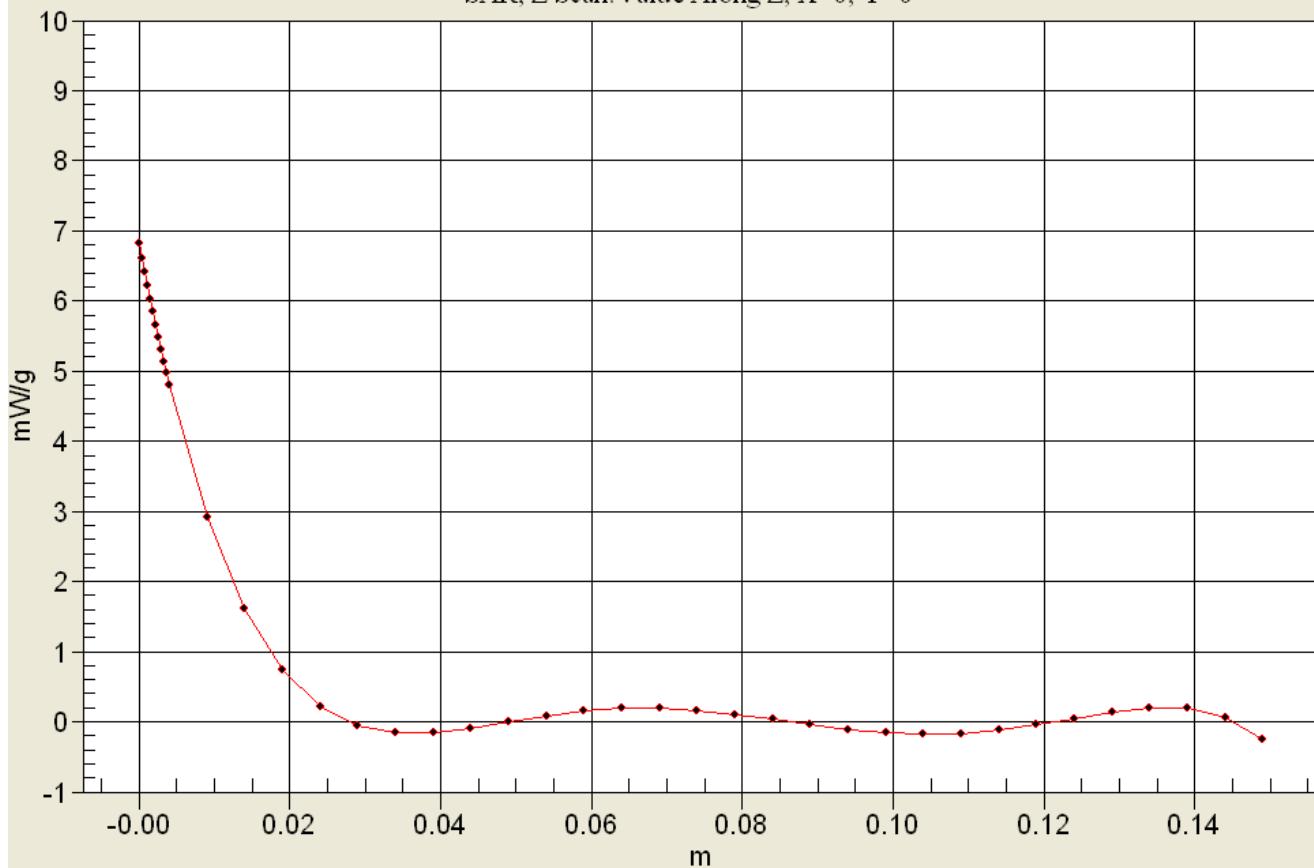
**SAR(1 g) = 5.07 mW/g; SAR(10 g) = 2.3 mW/g**

Maximum value of SAR (measured) = 5.65 mW/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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## Validation for BODY

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Report #:	CT-C5120-9A-0611-R0

Test Laboratory: Comptest/Kyocera

Date: 06/17/2011

**835MHz Validation (in Muscle), Probe #3035, DAE #603, Dipole #467**

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: M800, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3035, ConvF(5.91, 5.91, 5.91), Calibrated: 9/9/2010

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

Electronics: DAE4 Sn603, Calibrated: 9/20/2010

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

**835MHz/Area Scan (51x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.04 mW/g

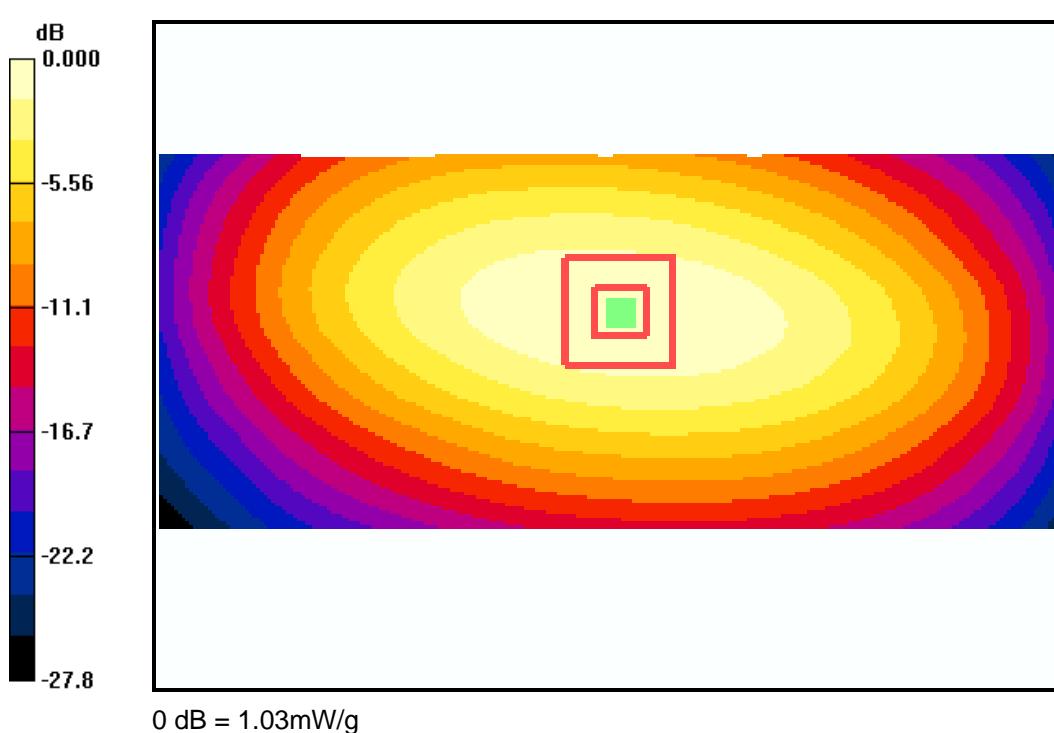
**835MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.9 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 1.37 W/kg

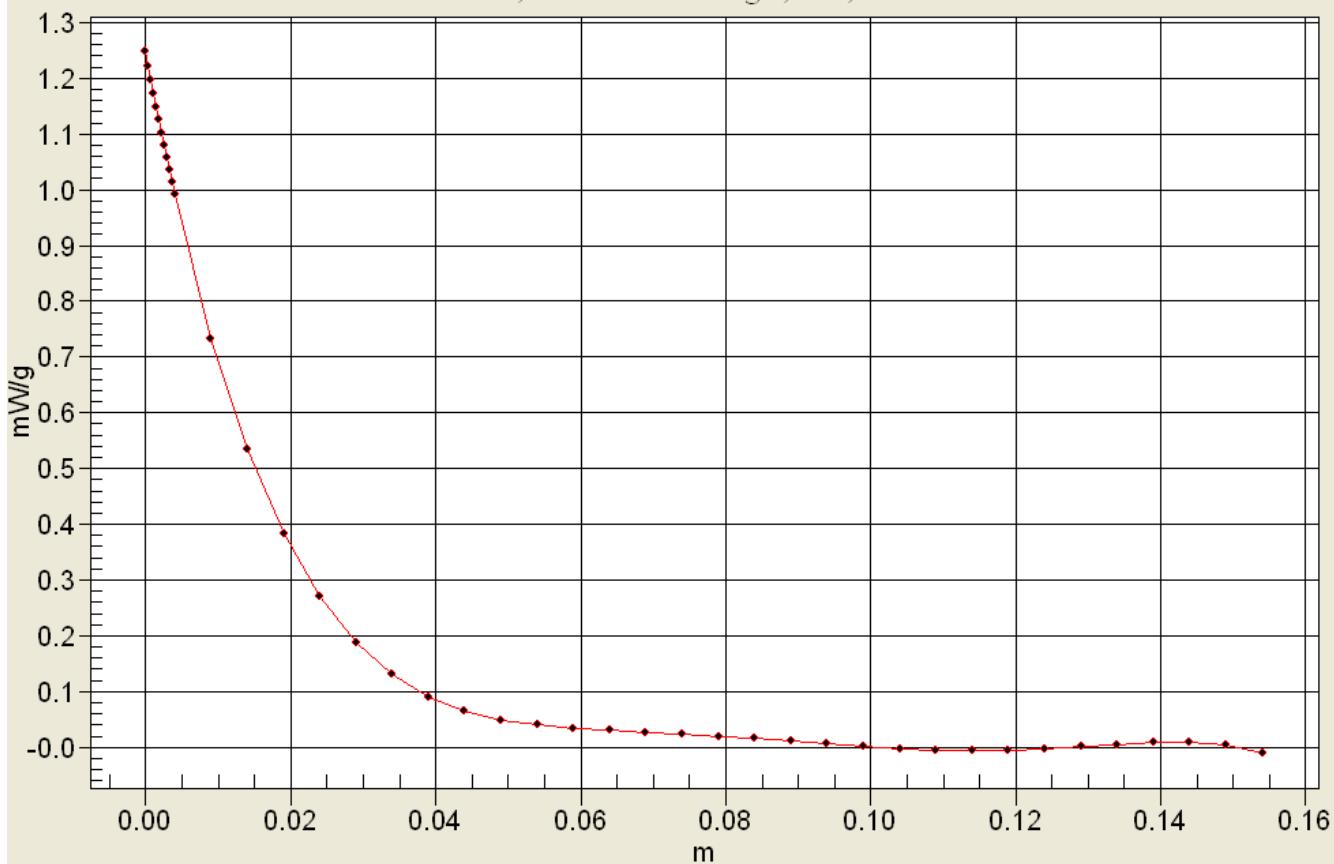
**SAR(1 g) = 0.952 mW/g; SAR(10 g) = 0.634 mW/g**

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



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



Applicant:	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9A-0611-R0

Test Laboratory: Comptest/Kyocera

Date: 06/24/2011

**835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #467**

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: M800, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010

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

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

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

**835MHz/Area Scan (51x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.04 mW/g

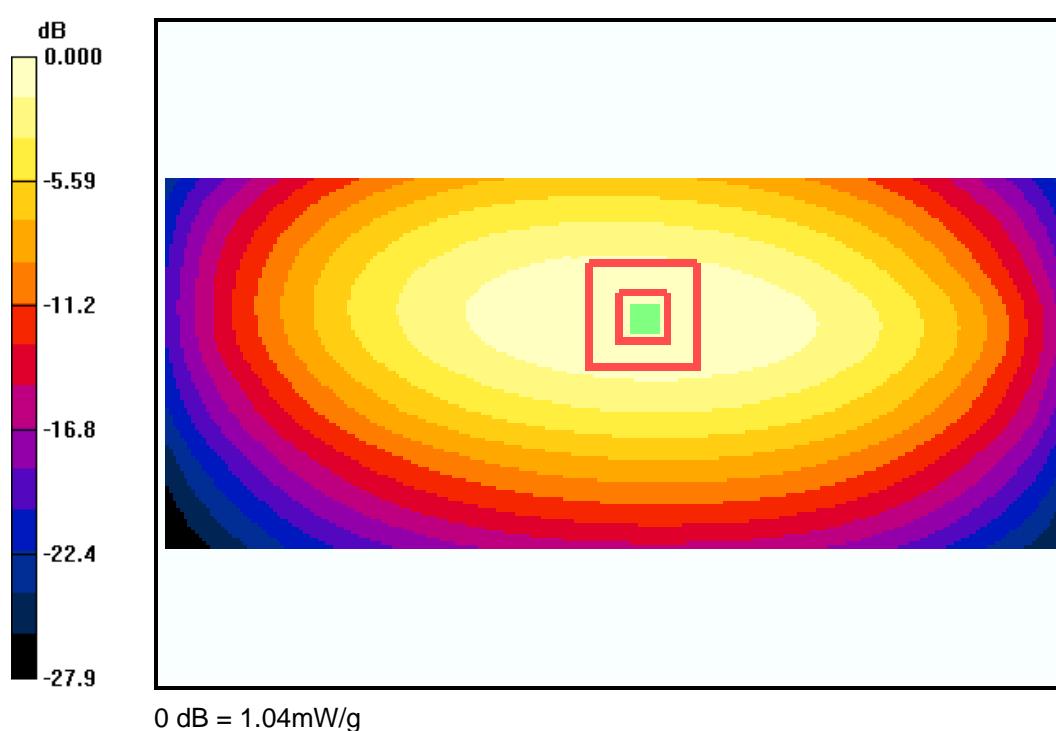
**835MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.7 V/m; Power Drift = -0.140 dB

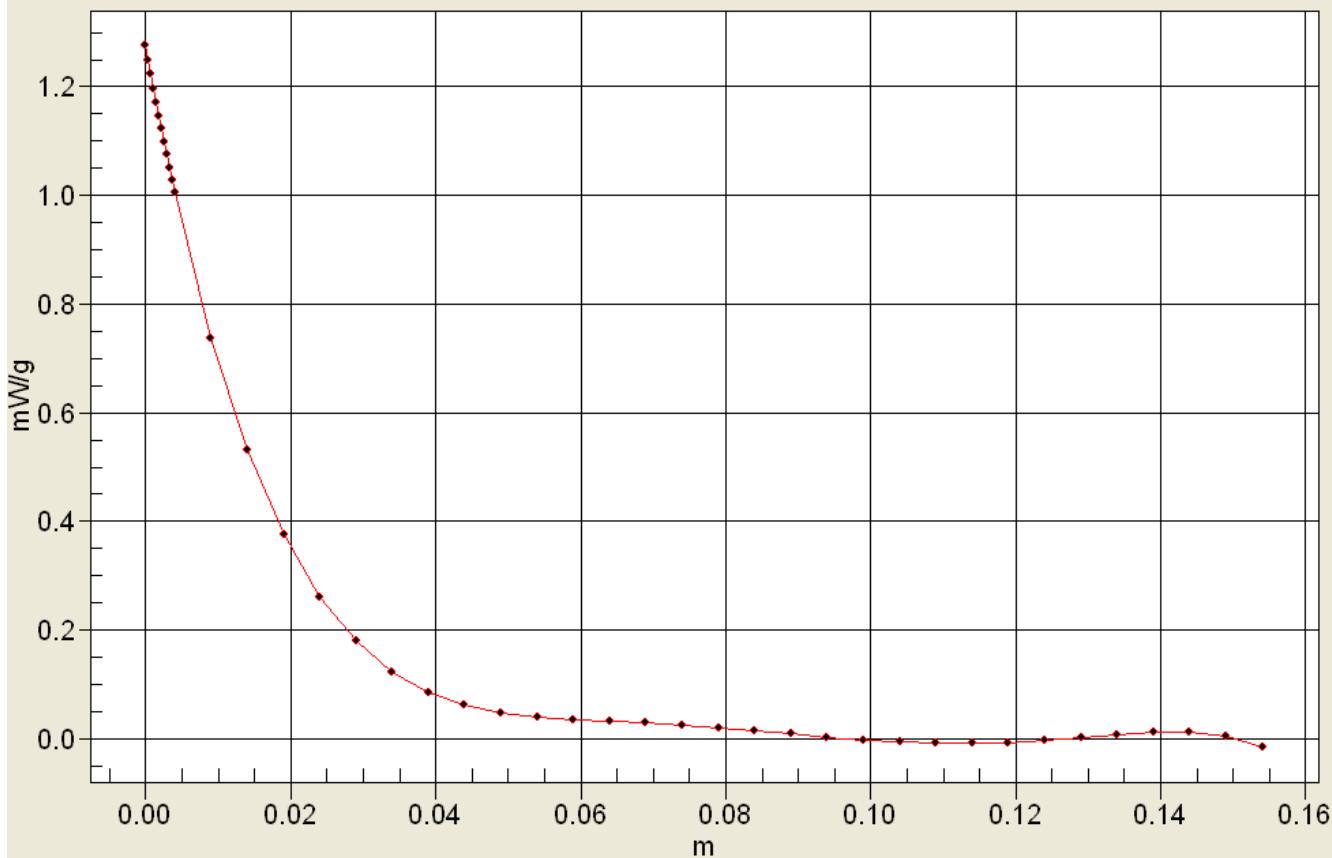
Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.959 mW/g; SAR(10 g) = 0.634 mW/g**

Maximum value of SAR (measured) = 1.04 mW/g



**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



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Report #:	CT-C5120-9A-0611-R0

Test Laboratory: Comptest/Kyocera

Date: 07/06/2011

**835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #467**

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: M900, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010

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

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

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

**835MHz/Area Scan (51x121x1):** Measurement grid: dx=15mm, dy=15mm

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

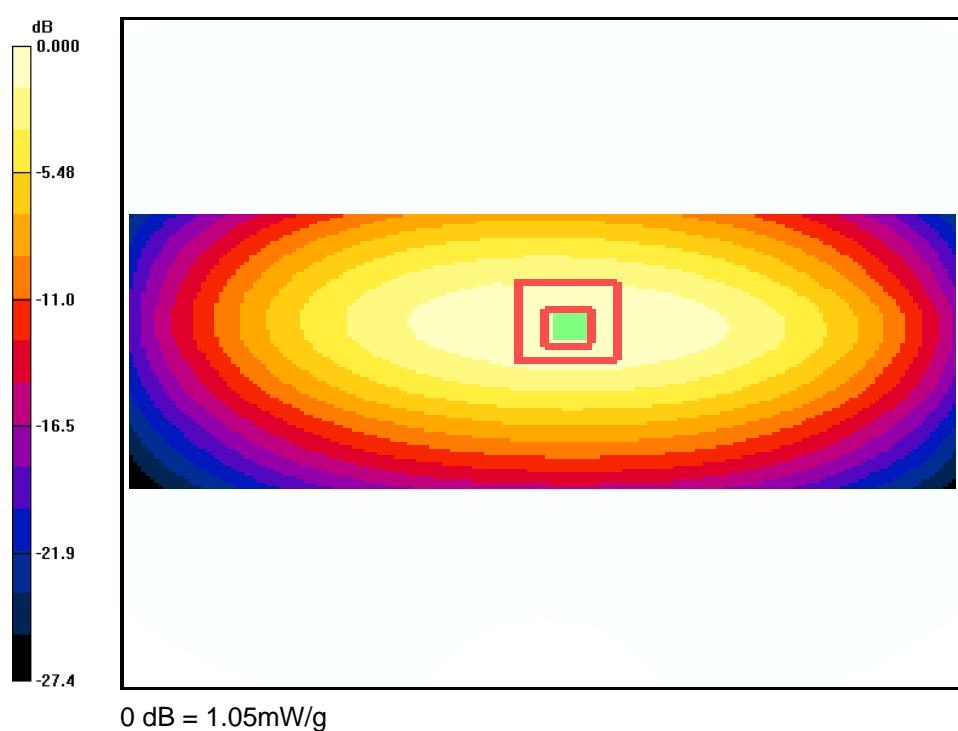
**835MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.7 V/m; Power Drift = 0.192 dB

Peak SAR (extrapolated) = 1.42 W/kg

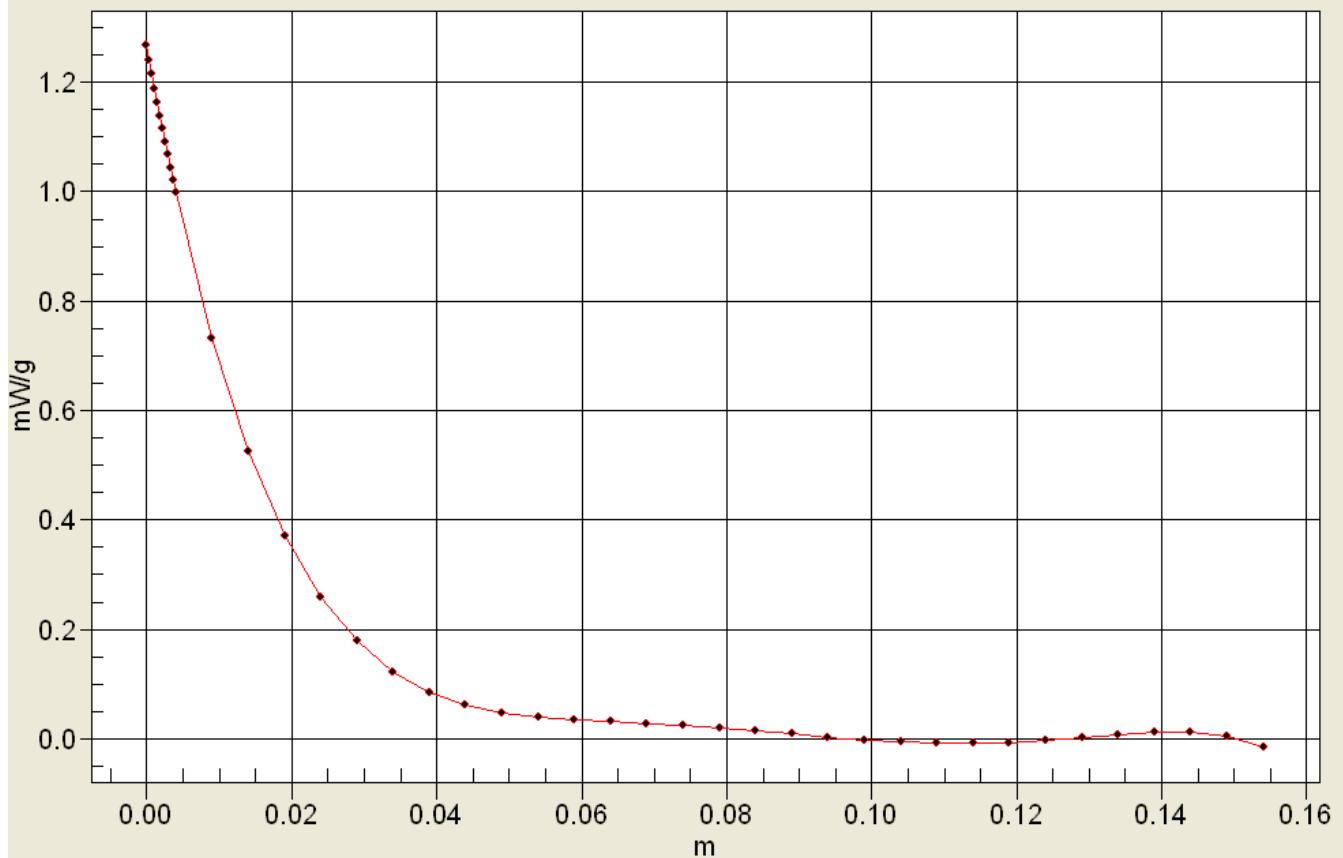
**SAR(1 g) = 0.963 mW/g; SAR(10 g) = 0.634 mW/g**

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



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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



Applicant:	Kyocera
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Test Laboratory: Comptest/Kyocera

Date: 07/07/2011

**835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #467**

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1

 Medium: M800, Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 53.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010

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

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

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

**835MHz/Area Scan (51x121x1):** Measurement grid: dx=15mm, dy=15mm

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

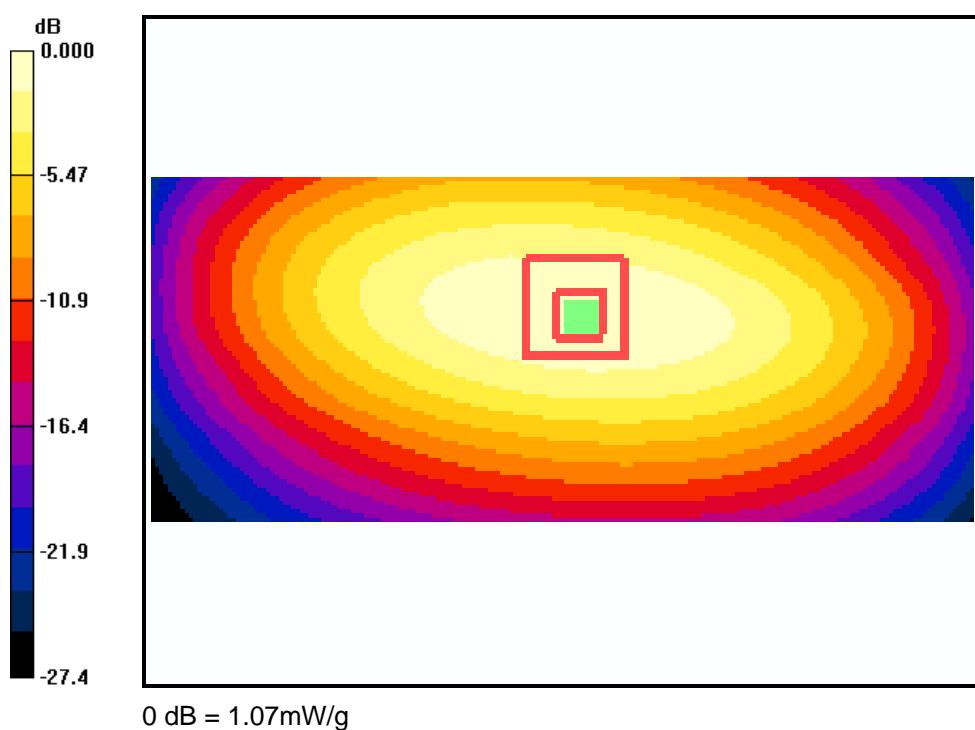
**835MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.3 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.44 W/kg

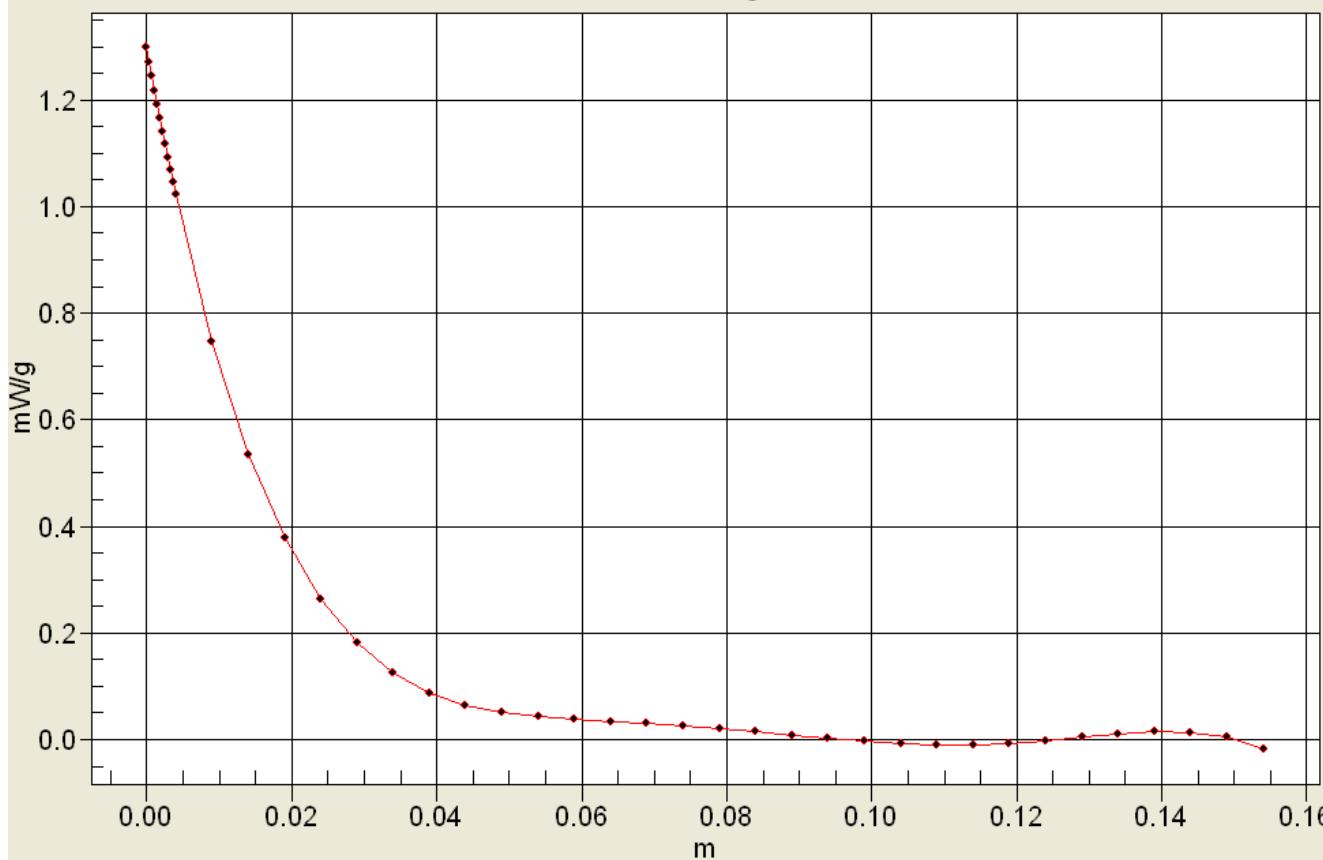
**SAR(1 g) = 0.982 mW/g; SAR(10 g) = 0.649 mW/g**

Maximum value of SAR (measured) = 1.06 mW/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: 06/15/2011

**1900MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #5d016**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

 Medium: M1900, Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.5, 4.5, 4.5), Calibrated: 7/14/2010

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

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

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

**1900MHz Validation @20dBm/Area Scan (61x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.97 mW/g

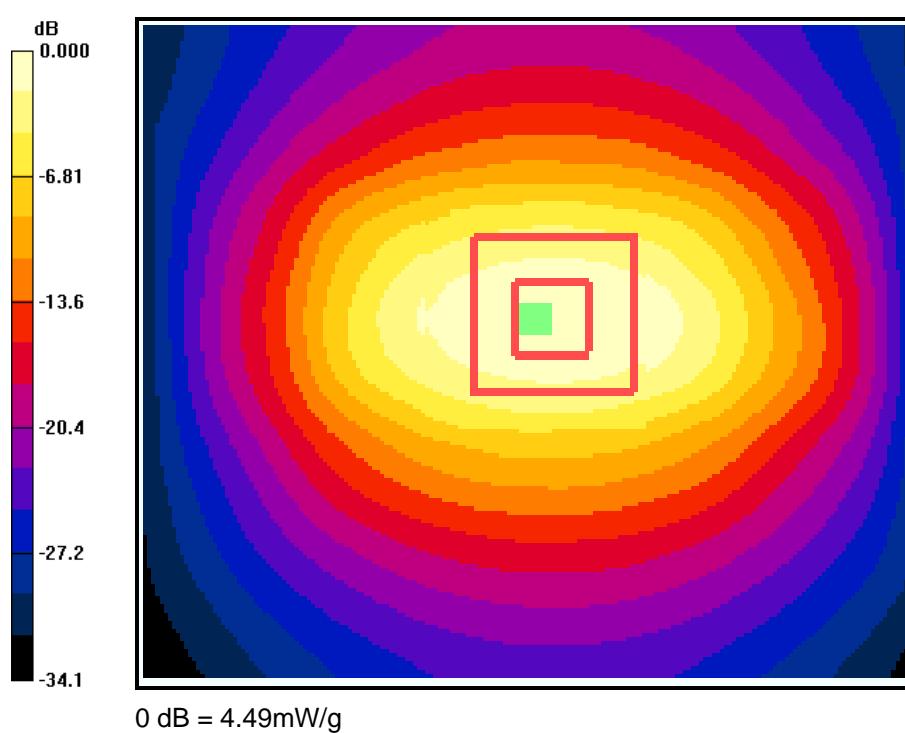
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

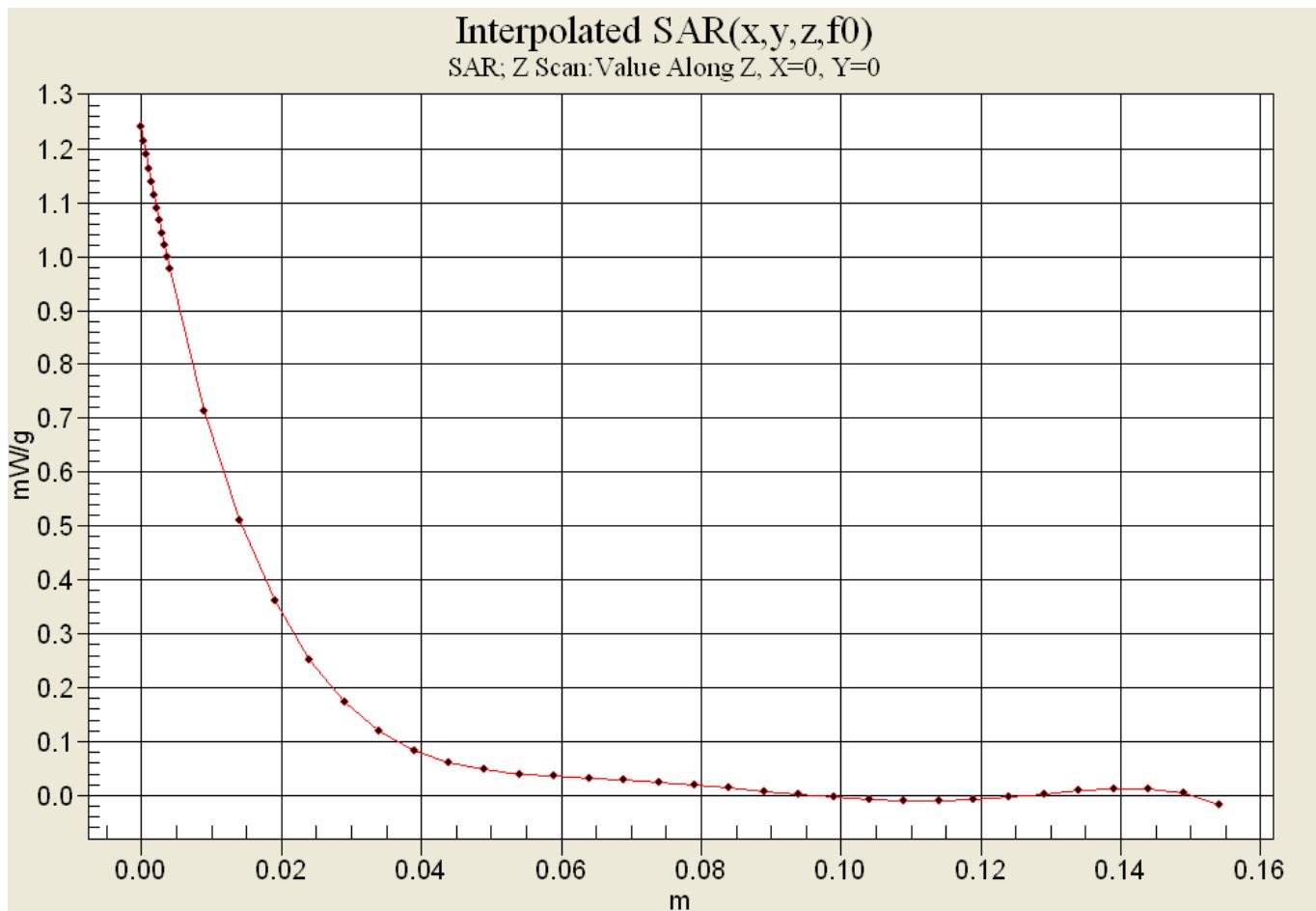
Reference Value = 51.2 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 6.84 W/kg

**SAR(1 g) = 3.97 mW/g; SAR(10 g) = 2.1 mW/g**

Maximum value of SAR (measured) = 4.49 mW/g





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FCC ID:	V65C5120
Report #:	CT-C5120-9A-0611-R0

Test Laboratory: Comptest/Kyocera

Date: 06/21/2011

**1900MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #5d016**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

 Medium: M1900, Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.5$  mho/m;  $\epsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.5, 4.5, 4.5), Calibrated: 7/14/2010

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

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

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

**1900MHz Validation @20dBm/Area Scan (61x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.12 mW/g

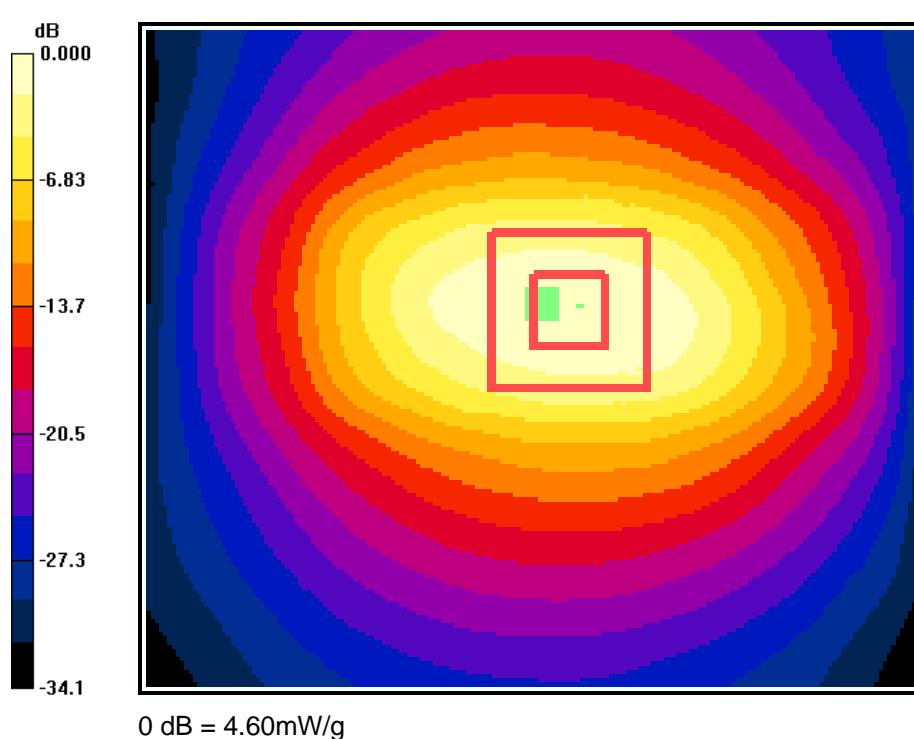
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.9 V/m; Power Drift = -0.022 dB

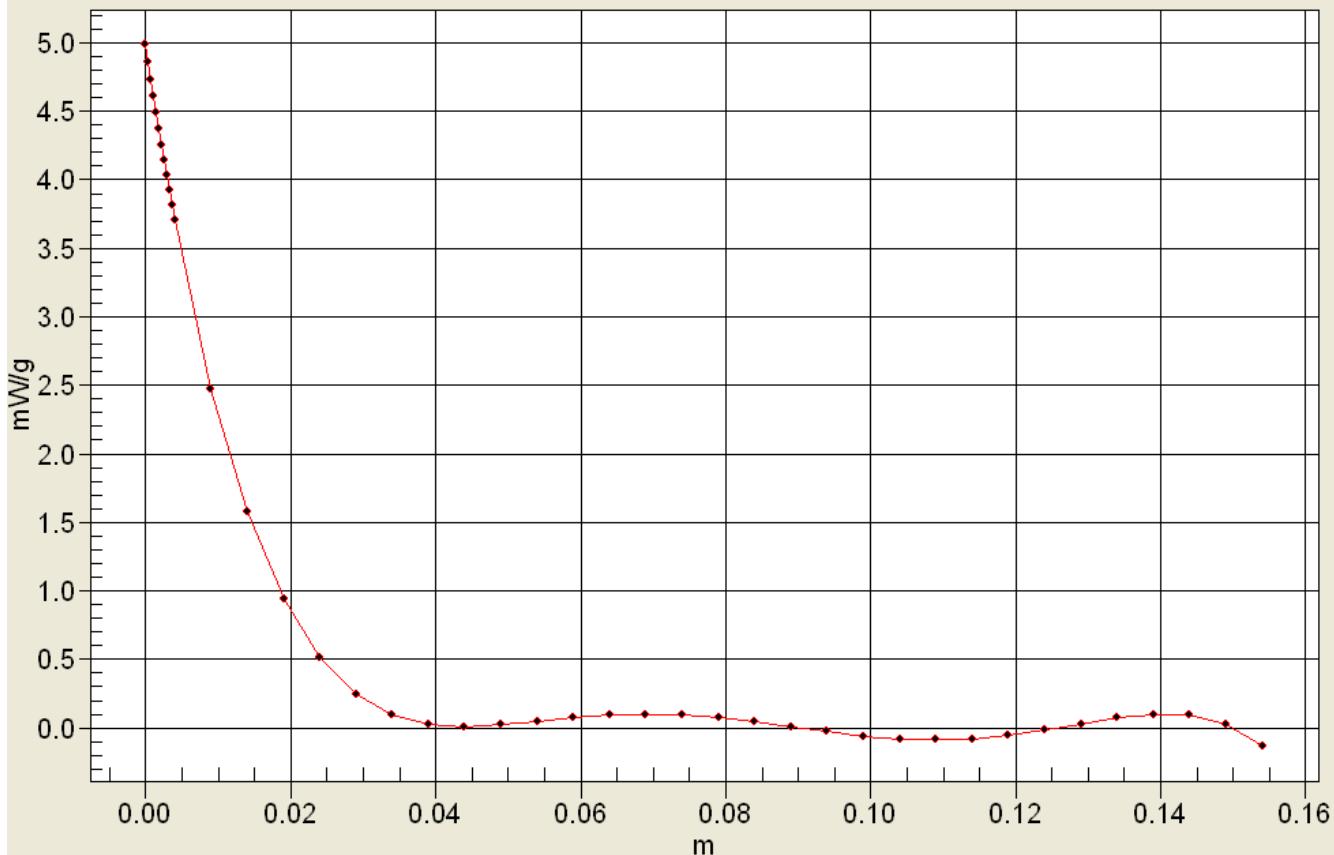
Peak SAR (extrapolated) = 6.99 W/kg

**SAR(1 g) = 4.08 mW/g; SAR(10 g) = 2.15 mW/g**

Maximum value of SAR (measured) = 4.60 mW/g



**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



Applicant:	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9A-0611-R0

Test Laboratory: Comptest/Kyocera

Date: 06/22/2011

**1900MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #5d016**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

 Medium: M1900, Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.5, 4.5, 4.5), Calibrated: 7/14/2010

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

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

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

**1900MHz Validation @20dBm/Area Scan (61x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.02 mW/g

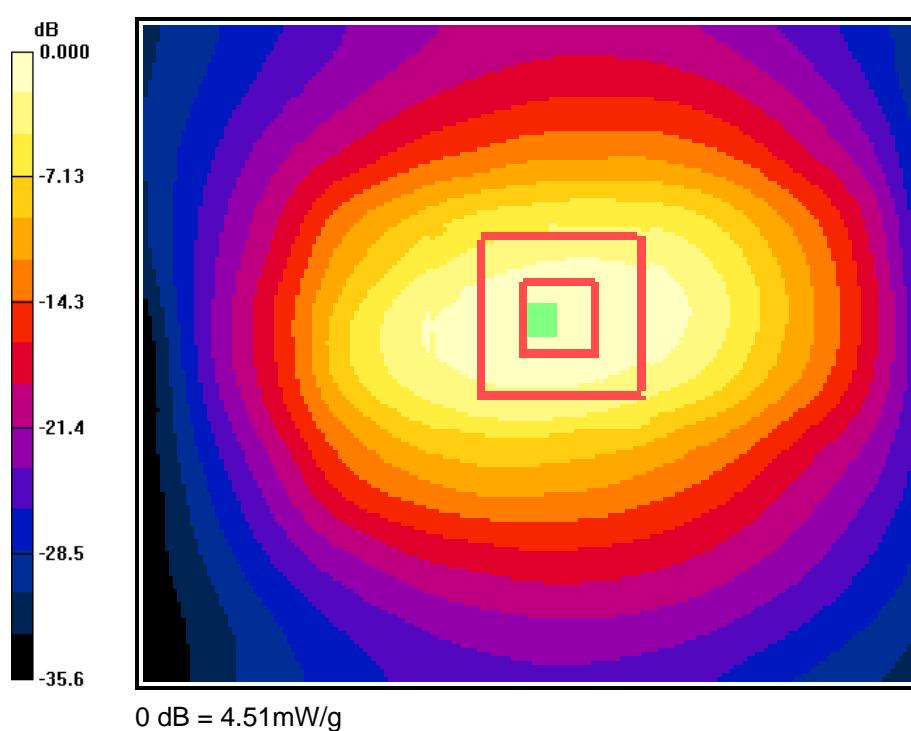
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.3 V/m; Power Drift = 0.020 dB

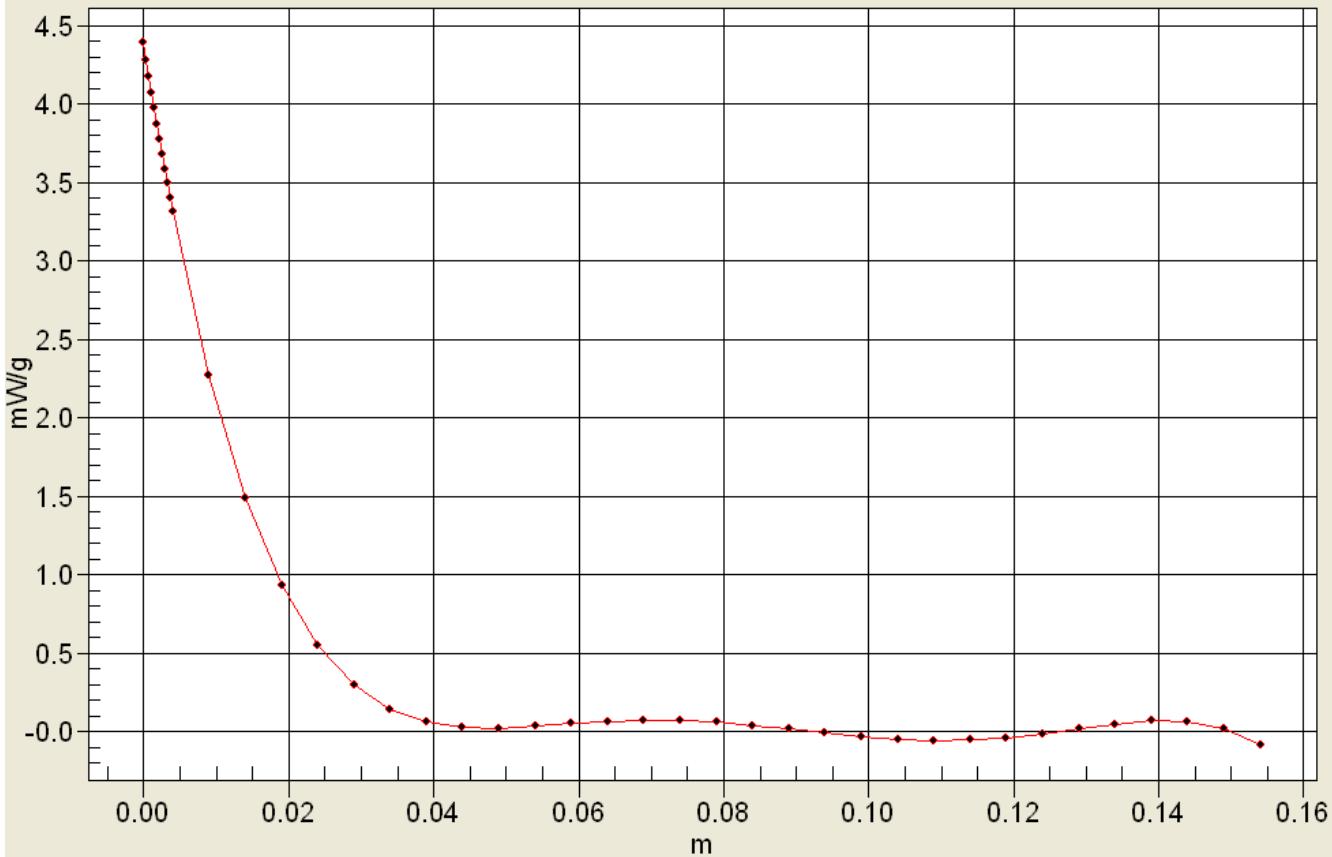
Peak SAR (extrapolated) = 6.85 W/kg

**SAR(1 g) = 3.97 mW/g; SAR(10 g) = 2.09 mW/g**

Maximum value of SAR (measured) = 4.51 mW/g



**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



Applicant:	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9A-0611-R0

Test Laboratory: Comptest/Kyocera

Date: 07/09/2011

**1900Mhz Validation @ 20dBm Probe 3035, DAE 675 and Dipole 5d016**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

 Medium: M1800, Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 51.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3035, ConvF(4.5, 4.5, 4.5), Calibrated: 9/9/2010

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

Electronics: DAE4 Sn675, Calibrated: 5/5/2011

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

**1900MHz Validation @20dBm/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.78 mW/g

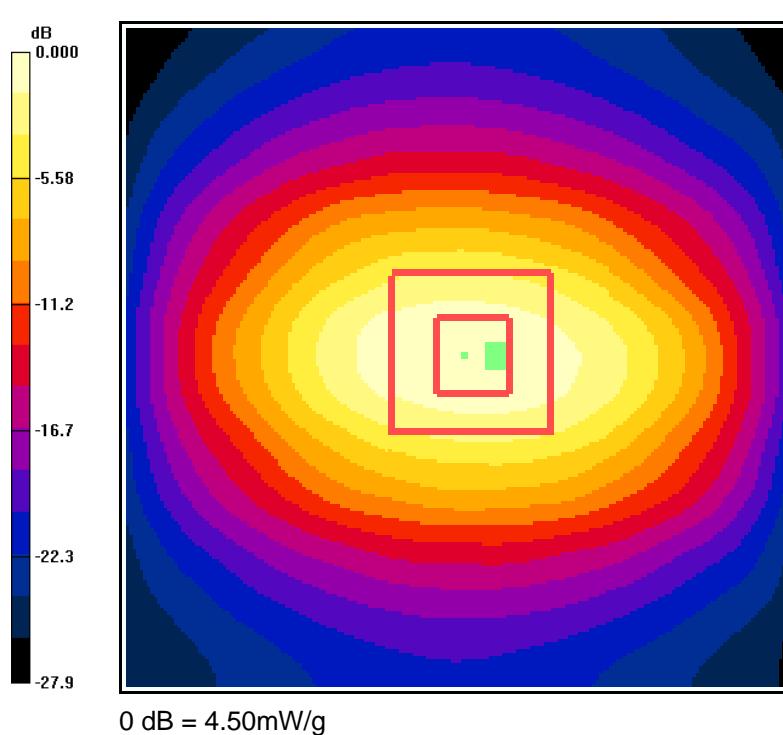
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.4 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 6.82 W/kg

**SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.12 mW/g**

Maximum value of SAR (measured) = 4.50 mW/g



Applicant:	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9A-0611-R0

Test Laboratory: Comptest/Kyocera

Date: 06/24/2011

**2450Mhz Validation (Muscle) @ 20dBm Probe 3078, DAE 602 and Dipole 776**

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1

 Medium: M2450, Medium parameters used (interpolated):  $f = 2450$  MHz;  $\sigma = 1.99$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.18, 4.18, 4.18), Calibrated: 7/14/2010

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

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

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

**2450MHz Validation @20dBm/Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 6.27 mW/g

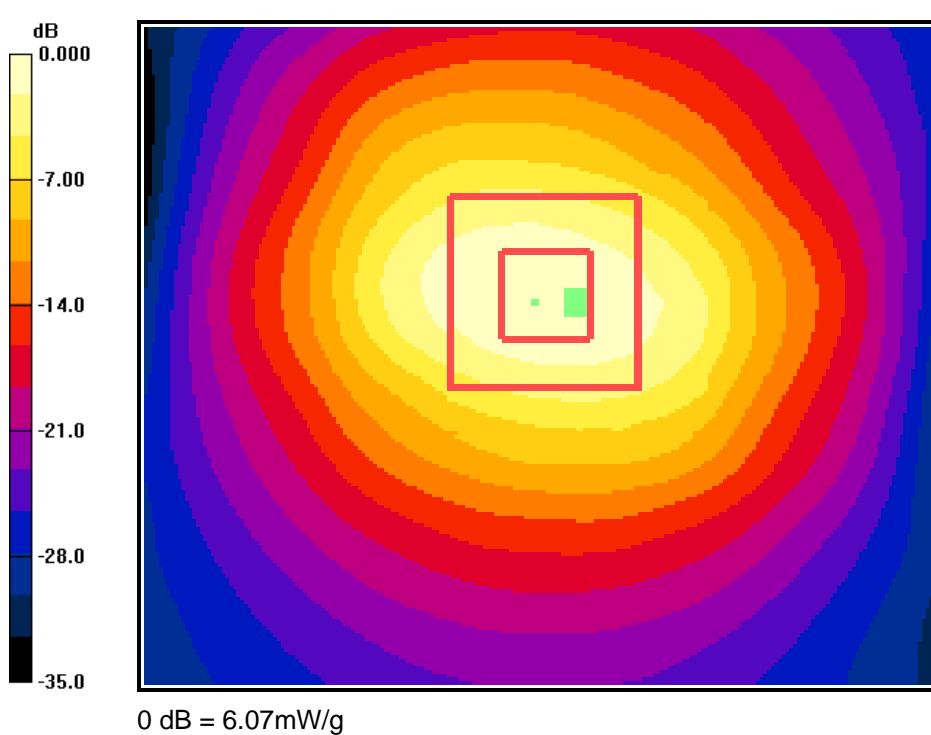
**2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.3 V/m; Power Drift = -0.044 dB

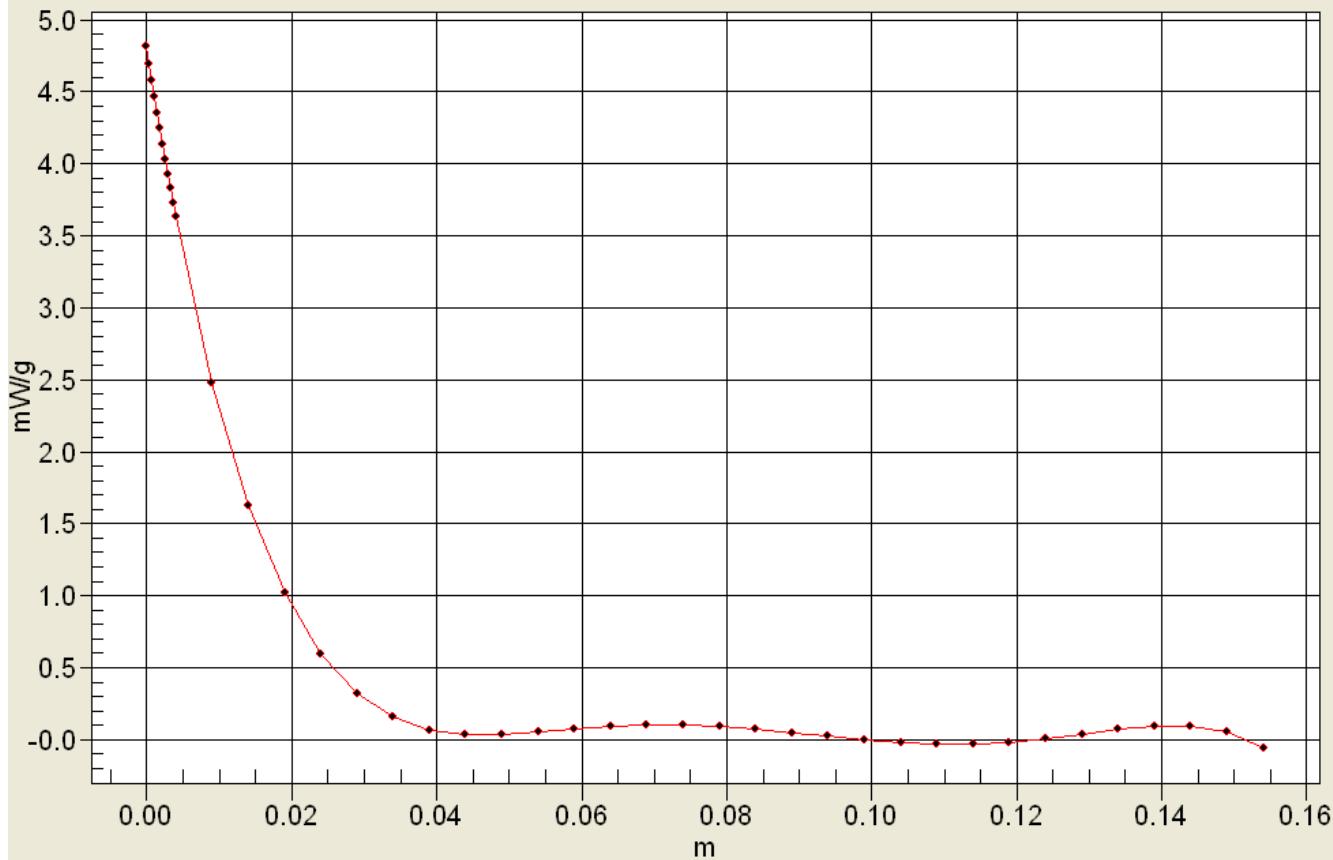
Peak SAR (extrapolated) = 11.5 W/kg

**SAR(1 g) = 5.35 mW/g; SAR(10 g) = 2.42 mW/g**

Maximum value of SAR (measured) = 6.07 mW/g



**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



Applicant:	Kyocera
FCC ID:	V65C5120
Report #:	CT-C5120-9A-0611-R0

Test Laboratory: Comptest/Kyocera

Date: 07/08/2011

**2450Mhz Validation (Muscle) @ 20dBm Probe 3078, DAE 602 and Dipole 776**

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1

 Medium: M2450, Medium parameters used (interpolated):  $f = 2450$  MHz;  $\sigma = 2.03$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.18, 4.18, 4.18), Calibrated: 7/14/2010

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

Electronics: DAE4 Sn602, Calibrated: 7/14/2010

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

**2450MHz Validation @20dBm/Area Scan (51x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 7.20 mW/g

**2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.1 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 12.6 W/kg

**SAR(1 g) = 5.91 mW/g; SAR(10 g) = 2.68 mW/g**

Maximum value of SAR (measured) = 6.83 mW/g

