

Applicant:	Kyocera
FCC ID:	V65M6000
Report #:	CT-M6000 C2PC-9A-0111-R0

**EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS**

**Validation for HEAD**

Applicant:	Kyocera
FCC ID:	V65M6000
Report #:	CT-M6000 C2PC-9A-0111-R0

Test Laboratory: Comptest/Kyocera

Date: 01/07/2011

**835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #4d019**

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

Medium: Head 835 MHz, Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.89 \text{ mho/m}$ ;  $\epsilon_r = 40.5$ ;  $\rho = 1000 \text{ kg/m}^3$

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: 4/23/2010

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T =  $21.8 \pm 1 \text{ deg C}$ , Liquid T =  $22.0 \pm 1 \text{ deg C}$

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

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

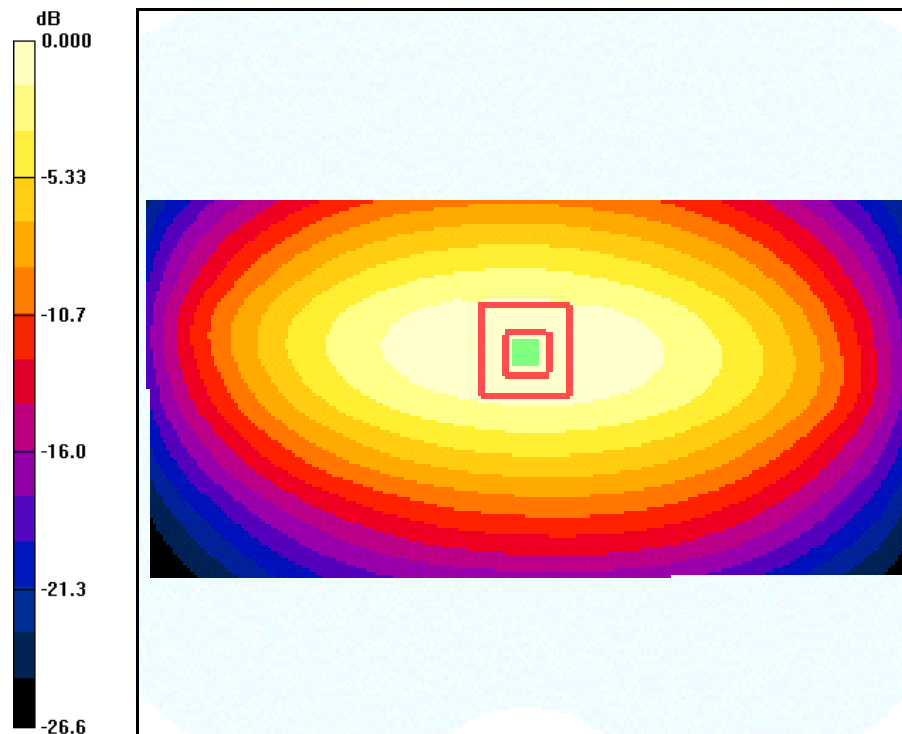
**835MHz Validation/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.0 V/m; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.970 mW/g; SAR(10 g) = 0.635 mW/g**

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



0 dB = 1.05mW/g

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Test Laboratory: Comptest/Kyocera

Date: 01/10/2011

**1800MHz Validation, Probe #3078, DAE #602, Dipole #220**

Communication System: CW 1800Mhz, Frequency: 1800 MHz, Duty Cycle: 1:1

Medium: H1800,Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 38.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12,Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.97, 4.97, 4.97), 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 = 21.8̄ 1 deg C, Liquid T = 22.0̄ 1 deg C

**1800Mhz/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.83 mW/g

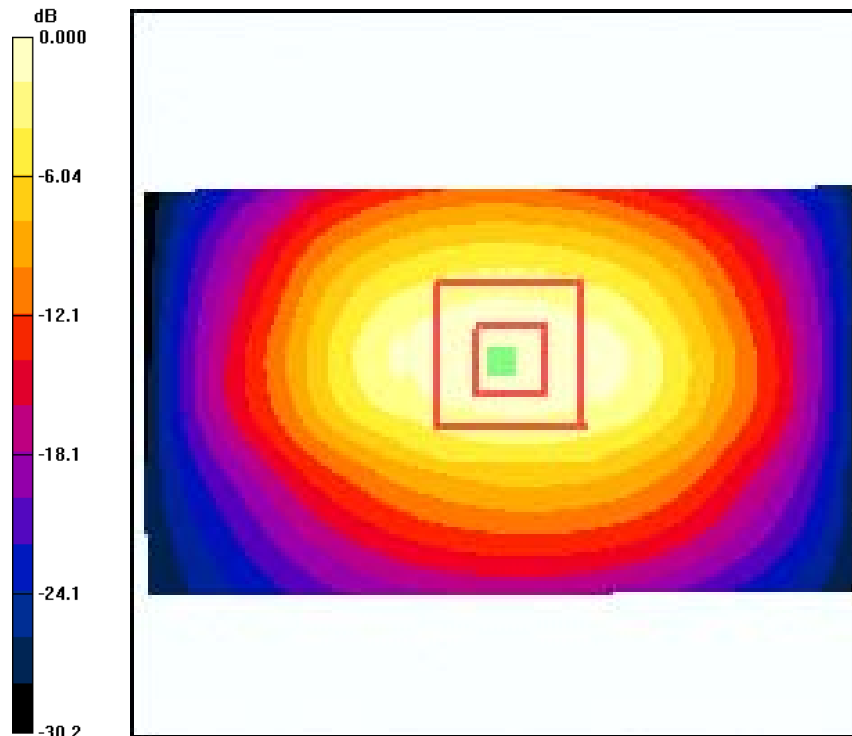
**1800Mhz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.6 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 7.53 W/kg

**SAR(1 g) = 3.99 mW/g; SAR(10 g) = 2.05 mW/g**

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



0 dB = 4.49mW/g

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

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

Medium: HSL1900, Medium parameters used (interpolated):  $f = 1900$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.8$ ;  $\rho = 1000$  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 Sn675, Calibrated: 4/21/2010

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 (41x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.76 mW/g

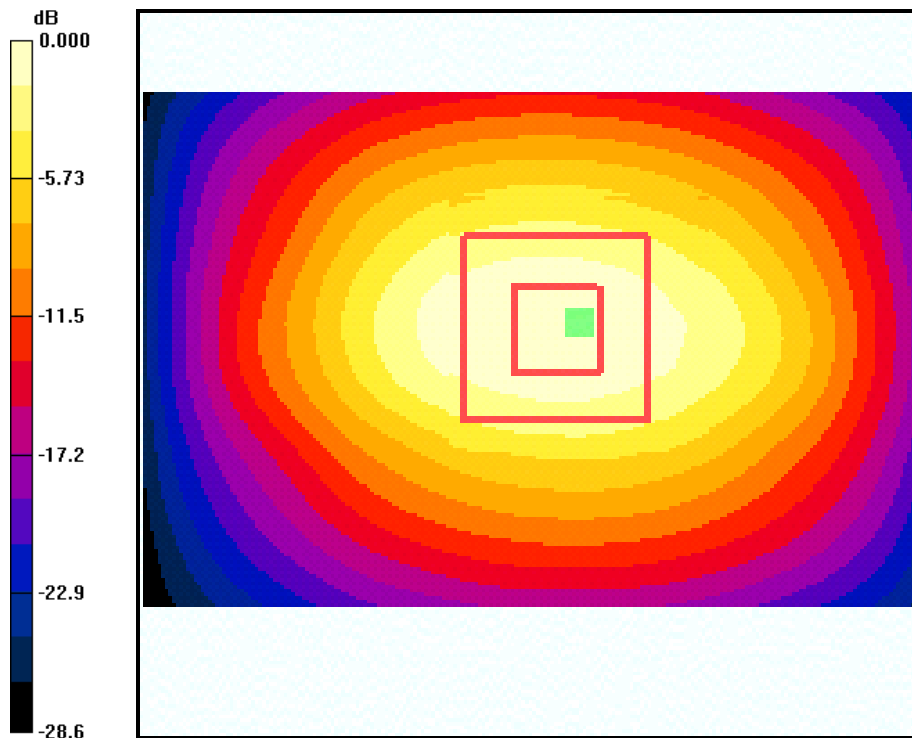
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.5 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 7.45 W/kg

**SAR(1 g) = 4.05 mW/g; SAR(10 g) = 2.08 mW/g**

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



0 dB = 4.50mW/g



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## Validation for BODY

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Test Laboratory: Comptest/Kyocera

Date: 01/11/2011

**835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #4d019**

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

Medium: M900, Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.94 \text{ mho/m}$ ;  $\epsilon_r = 54.4$ ;  $\rho = 1000 \text{ kg/m}^3$

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) = 1.02 mW/g

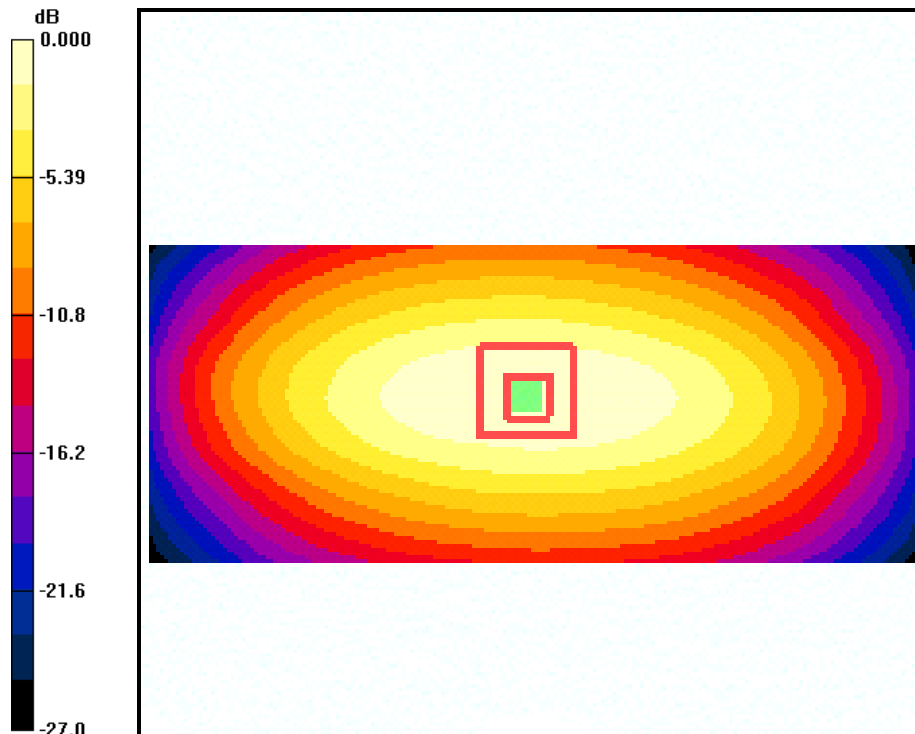
**835MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.6 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 1.39 W/kg

**SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.632 mW/g**

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



0 dB = 1.03mW/g

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Test Laboratory: Comptest/Kyocera

Date: 01/11/2011

**1800MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #220**

Communication System: CW 1800Mhz, Frequency: 1800 MHz, Duty Cycle: 1:1

Medium: M1800,Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.57$  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(4.73, 4.73, 4.73), 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

**1800Mhz/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 4.74 mW/g

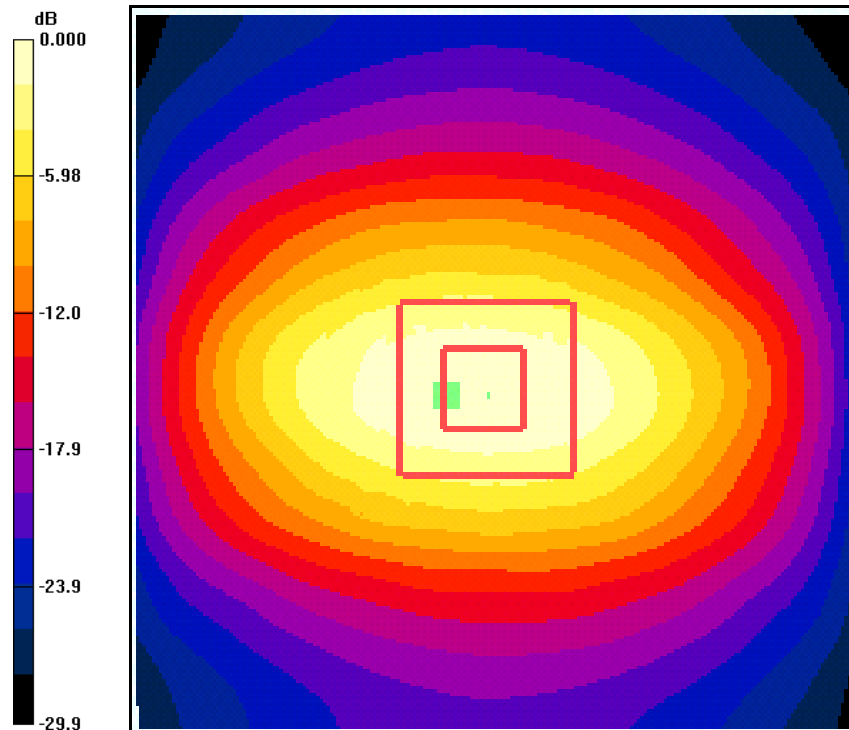
**1800Mhz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.4 V/m; Power Drift = -0.133 dB

Peak SAR (extrapolated) = 7.10 W/kg

**SAR(1 g) = 3.91 mW/g; SAR(10 g) = 2.04 mW/g**

Maximum value of SAR (measured) = 4.46 mW/g



0 dB = 4.46mW/g

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Test Laboratory: Comptest/Kyocera

Date: 01/11/2011

**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;  $\sigma = 1.57$  mho/m;  $\epsilon_r = 52.1$ ;  $\rho = 1000$  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 (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.17 mW/g

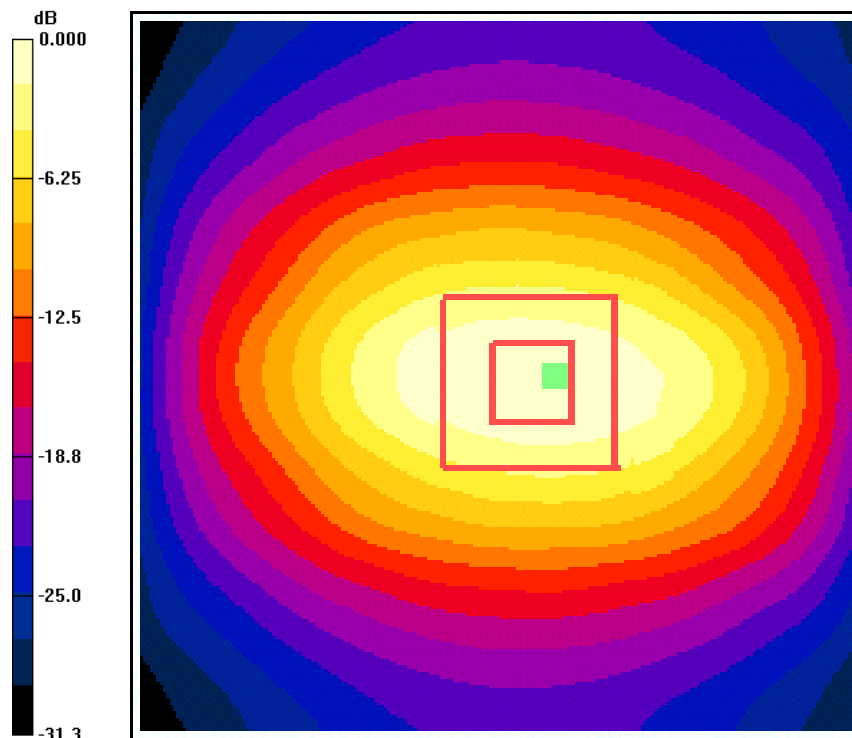
**1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.8 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 7.24 W/kg

**SAR(1 g) = 4.12 mW/g; SAR(10 g) = 2.14 mW/g**

Maximum value of SAR (measured) = 4.68 mW/g



0 dB = 4.68mW/g



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Test Laboratory: Comptest/Kyocera

Date: 01/24/2011

**2450MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #776**

Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1  
 Medium: M2450, Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.04$  mho/m;  $\epsilon_r = 50.3$ ;  $\rho = 1000$  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) = 7.10 mW/g

**2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
 Reference Value = 52.3 V/m; Power Drift = -0.003 dB  
 Peak SAR (extrapolated) = 11.6 W/kg  
**SAR(1 g) = 5.46 mW/g; SAR(10 g) = 2.47 mW/g**  
 Maximum value of SAR (measured) = 6.26 mW/g

