

Applicant	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155-9B2-0312-R0

# **EXHIBIT 9 APPENDIX B2: SAR DISTRIBUTION PLOTS (BODY)**

**PCS** 



Applicant	Kyocera
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Report #:	CT-C5155-9B2-0312-R0

# FCC C5155 PCS Flat with 15mm Air Space, Face Down Ch. 25, Closed

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

Medium: M1800, Medium parameters used (interpolated): f = 1851.25 MHz;  $\sigma = 1.53 \text{ mho/m}$ ;  $\epsilon_r = 51.8$ ;  $\rho = 1000$ 

ka/m³

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011

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 1 deg C, Liquid T = 22.0 1 1 deg C

CDMA-1900 FLAT Ch25 Face Down Closed/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.990 mW/g

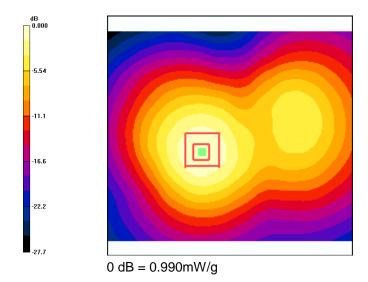
CDMA-1900 FLAT Ch25 Face Down Closed/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.6 V/m; Power Drift = -0.171 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.924 mW/g; SAR(10 g) = 0.567 mW/g

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





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# FCC C5155 PCS Flat with 15mm Air Space, Face Down Ch. 600, Closed

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

Medium: M1800, Medium parameters used: f = 1880 MHz;  $\sigma = 1.53$  mho/m;  $\varepsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011

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

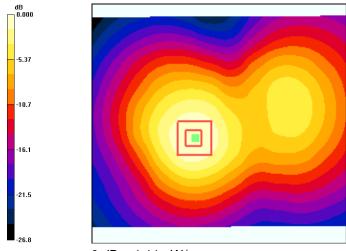
**CDMA-1900 FLAT - Face Down Ch600/Area Scan (91x111x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.11 mW/g

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

Reference Value = 16.8 V/m; Power Drift = 0.155 dB

Peak SAR (extrapolated) = 1.60 W/kg

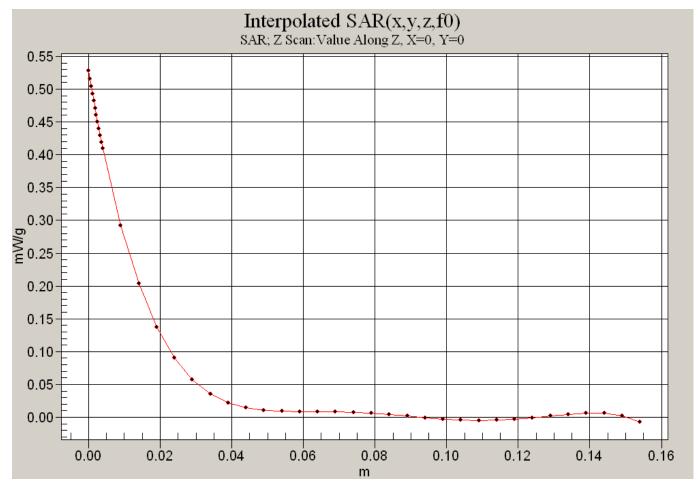
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.639 mW/g Maximum value of SAR (measured) = 1.12 mW/g



0 dB = 1.11 mW/g



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# FCC C5155 PCS Flat with 15mm Air Space, Face Down Ch. 1175, Closed

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

Medium: M1800, Medium parameters used (interpolated): f = 1908.75 MHz;  $\sigma$  = 1.53 mho/m;  $\varepsilon_r$  = 51.8;  $\rho$  = 1000

ka/m³

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011

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 1 deg C, Liquid T = 22.0 1 1 deg C

#### CDMA-1900 FLAT Face Down Ch1175/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

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

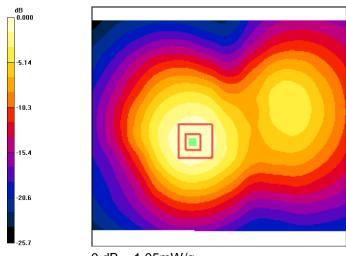
# CDMA-1900 FLAT Face Down Ch1175/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.6 V/m; Power Drift = -0.100 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.971 mW/g; SAR(10 g) = 0.594 mW/g

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



0 dB = 1.05 mW/g



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# FCC C5155 PCS Flat with 15mm Air Space, Face Up Ch. 600, Closed

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

Medium: M1800, Medium parameters used: f = 1880 MHz;  $\sigma = 1.53$  mho/m;  $\varepsilon_r = 51.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011

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

**CDMA-1900 FLAT - Face Up Ch600 Closed/Area Scan (91x111x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.508 mW/g

CDMA-1900 FLAT - Face Up Ch600 Closed/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.69 V/m; Power Drift = -0.153 dB

Peak SAR (extrapolated) = 0.714 W/kg

SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.291 mW/g

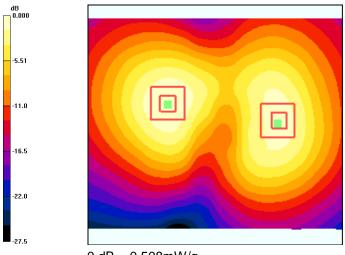
Maximum value of SAR (measured) = 0.504 mW/g

# CDMA-1900 FLAT - Face Up Ch600 Closed/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.69 V/m; Power Drift = -0.153 dB

Peak SAR (extrapolated) = 0.565 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.248 mW/g Maximum value of SAR (measured) = 0.408 mW/g



0 dB = 0.508 mW/g



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# FCC C5155 PCS Flat with 15mm Air Space, Face Down Ch. 25, Open

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

Medium: M1800, Medium parameters used (interpolated): f = 1851.25 MHz;  $\sigma$  = 1.52 mho/m;  $\varepsilon_r$  = 51.5;  $\rho$  = 1000

ka/m³

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011

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 1 deg C, Liquid T = 22.0 1 1 deg C

CDMA-1900 FLAT Ch25 Face Down Open/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.895 mW/g

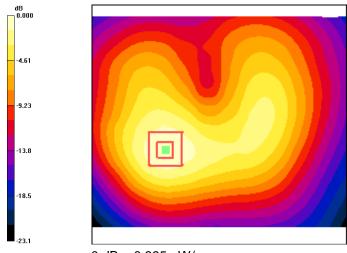
CDMA-1900 FLAT Ch25 Face Down Open/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.800 mW/g; SAR(10 g) = 0.496 mW/g

Maximum value of SAR (measured) = 0.860 mW/g



0 dB = 0.895 mW/g



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# FCC C5155 PCS Flat with 15mm Air Space, Face Down Ch. 600, Open

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

Medium: M1800, Medium parameters used: f = 1880 MHz;  $\sigma = 1.52$  mho/m;  $\varepsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011

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

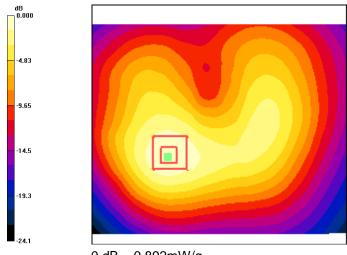
**CDMA-1900 FLAT - Face Down Ch600/Area Scan (91x111x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.892 mW/g

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

Reference Value = 15.1 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 1.28 W/kg

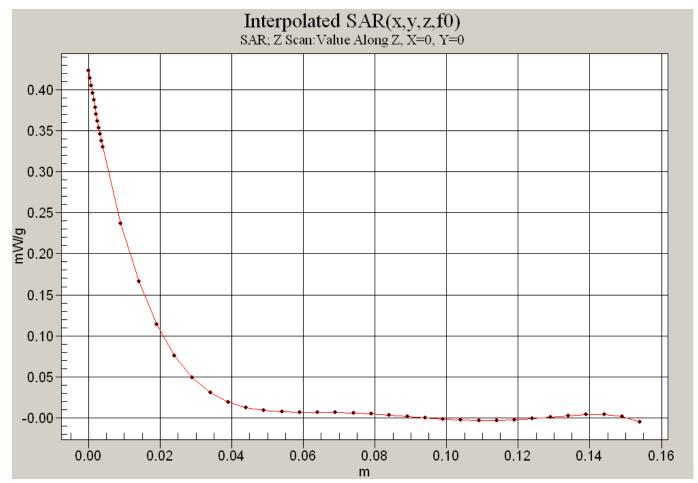
SAR(1 g) = 0.815 mW/g; SAR(10 g) = 0.506 mW/g Maximum value of SAR (measured) = 0.882 mW/g



0 dB = 0.892 mW/g



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# FCC C5155 PCS Flat with 15mm Air Space, Face Down Ch. 1175, Open

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

Medium: M1800, Medium parameters used (interpolated): f = 1908.75 MHz;  $\sigma$  = 1.52 mho/m;  $\varepsilon_r$  = 51.5;  $\rho$  = 1000

ka/m³

Phantom: SAM 12, Phantom section: Flat Section

# **DASY4** Configuration:

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011

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 1 deg C, Liquid T = 22.0 1 1 deg C

CDMA-1900 FLAT- Face Down Ch1175/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.787 mW/g

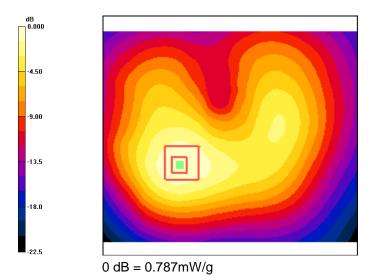
CDMA-1900 FLAT- Face Down Ch1175/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.8 V/m; Power Drift = -0.179 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.715 mW/g; SAR(10 g) = 0.445 mW/g

Maximum value of SAR (measured) = 0.766 mW/g





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# FCC C5155 PCS Flat with 15mm Air Space, Face Up Ch. 600, Open

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

Medium: M1800, Medium parameters used: f = 1880 MHz;  $\sigma = 1.52$  mho/m;  $\varepsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(4.57, 4.57, 4.57), Calibrated: 5/11/2011

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

CDMA-1900 FLAT - Face Up Ch600 Open/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.478 mW/g

CDMA-1900 FLAT - Face Up Ch600 Open/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.12 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.681 W/kg

SAR(1 g) = 0.441 mW/g; SAR(10 g) = 0.287 mW/g

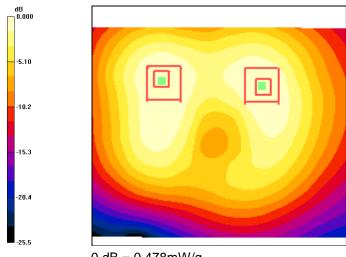
Maximum value of SAR (measured) = 0.469 mW/g

CDMA-1900 FLAT - Face Up Ch600 Open/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.12 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.654 W/kg

SAR(1 g) = 0.441 mW/g; SAR(10 g) = 0.291 mW/gMaximum value of SAR (measured) = 0.470 mW/g



0 dB = 0.478 mW/g



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# WIFI



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# FCC C5155 WiFi Flat with 15mm Air Space, Face Down Ch. 1, Closed

Communication System: WLAN-2450, Frequency: 2412 MHz, Duty Cycle: 1:1

Medium: M2450, Medium parameters used: f = 2400 MHz;  $\sigma = 2.01 \text{ mho/m}$ ;  $\varepsilon_r = 50.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.16, 4.16, 4.16), Calibrated: 9/19/2011

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

Ch 2450 ch1 Face DOWN/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.048 mW/g

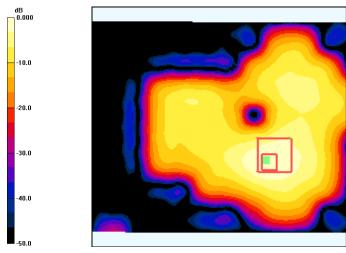
Ch 2450 ch1 Face DOWN/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.73 V/m; Power Drift = 0.140 dB

Peak SAR (extrapolated) = 0.265 W/kg

SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.022 mW/g

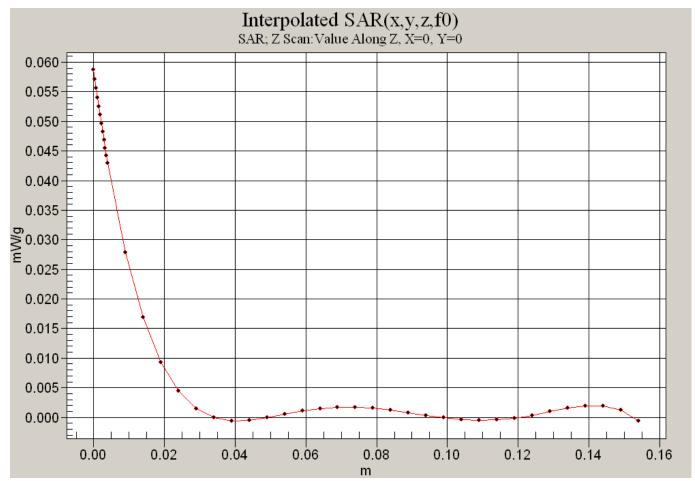
Maximum value of SAR (measured) = 0.178 mW/g



0 dB = 0.048 mW/g



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# FCC C5155 WiFi Flat with 15mm Air Space, Face Up Ch. 1, Closed

Communication System: WLAN-2450, Frequency: 2412 MHz, Duty Cycle: 1:1

Medium: M2450, Medium parameters used: f = 2400 MHz;  $\sigma = 2.01 \text{ mho/m}$ ;  $\varepsilon_r = 50.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.16, 4.16, 4.16), Calibrated: 9/19/2011

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

Ch 2450 ch1 Face UP-/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.012 mW/g

Ch 2450 ch1 Face UP-/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.477 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.022 W/kg

SAR(1 g) = 0.00656 mW/g; SAR(10 g) = 0.0034 mW/g

Maximum value of SAR (measured) = 0.007 mW/g

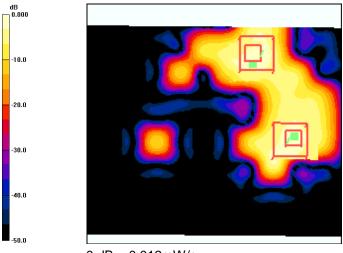
Ch 2450 ch1 Face UP-/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.477 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.011 W/kg

SAR(1 g) = 0.00567 mW/g; SAR(10 g) = 0.00314 mW/g

Maximum value of SAR (measured) = 0.006 mW/g



0 dB = 0.012 mW/g



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#### FCC C5155 WiFi Flat with 15mm Air Space, Face Down Ch. 1, Open

Communication System: WLAN-2450, Frequency: 2412 MHz, Duty Cycle: 1:1

Medium: M2450, Medium parameters used: f = 2400 MHz;  $\sigma = 2.01 \text{ mho/m}$ ;  $\varepsilon_r = 50.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom: SAM 12, Phantom section: Flat Section

# **DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.16, 4.16, 4.16), Calibrated: 9/19/2011

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 1 deg C, Liquid T = 22.0 1 1 deg C

Ch 2450 ch1 Face DOWN/Area Scan (91x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.053 mW/g

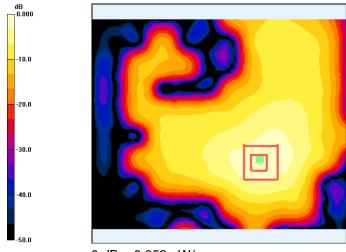
Ch 2450 ch1 Face DOWN/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.27 V/m; Power Drift = 0.160 dB

Peak SAR (extrapolated) = 0.091 W/kg

SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 0.050 mW/g



0 dB = 0.053 mW/g



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# FCC C5155 WiFi Flat with 15mm Air Space, Face Up Ch. 1, Open

Communication System: WLAN-2450, Frequency: 2412 MHz, Duty Cycle: 1:1

Medium: M2450, Medium parameters used: f = 2400 MHz;  $\sigma = 2.01 \text{ mho/m}$ ;  $\varepsilon_r = 50.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom: SAM 12, Phantom section: Flat Section

#### **DASY4 Configuration:**

Probe: ES3DV3 - SN3078, ConvF(4.16, 4.16, 4.16), Calibrated: 9/19/2011

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

Ch 2450 ch1 Face UP/Area Scan (101x111x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.051 mW/g

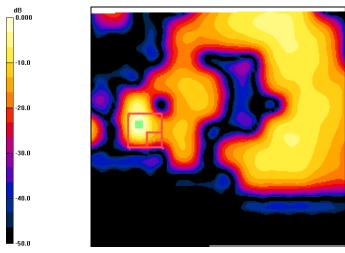
Ch 2450 ch1 Face UP/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.551 V/m; Power Drift = -0.062 dB

Peak SAR (extrapolated) = 0.027 W/kg

SAR(1 g) = 0.00528 mW/g; SAR(10 g) = 0.00139 mW/g

Maximum value of SAR (measured) = 0.018 mW/g



0 dB = 0.051 mW/g