



Applicant	Kyocera
FCC ID:	V65S2150A1
Report #:	CT- S2150-9B2-0213

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

**CELL-BC0**

Applicant	Kyocera
FCC ID:	V65S2150A1
Report #:	CT- S2150-9B2-0213

Test Laboratory: Comptest/Kyocera

Date: 03/14/2013

**FCC S2150 CELL Flat with 15mm Air Space, Face Down Ch. 1013, Closed**

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

Medium: M800, Medium parameters used (interpolated):  $f = 824.7$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(5.83, 5.83, 5.83), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

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 FLAT Face Down Ch1013/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.26 mW/g

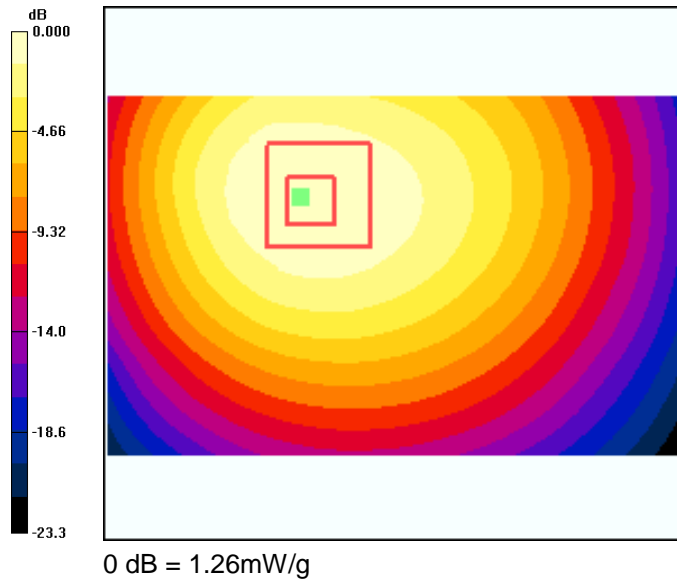
**CDMA-800 FLAT Face Down Ch1013/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.4 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 1.57 W/kg

**SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.834 mW/g**

Maximum value of SAR (measured) = 1.26 mW/g

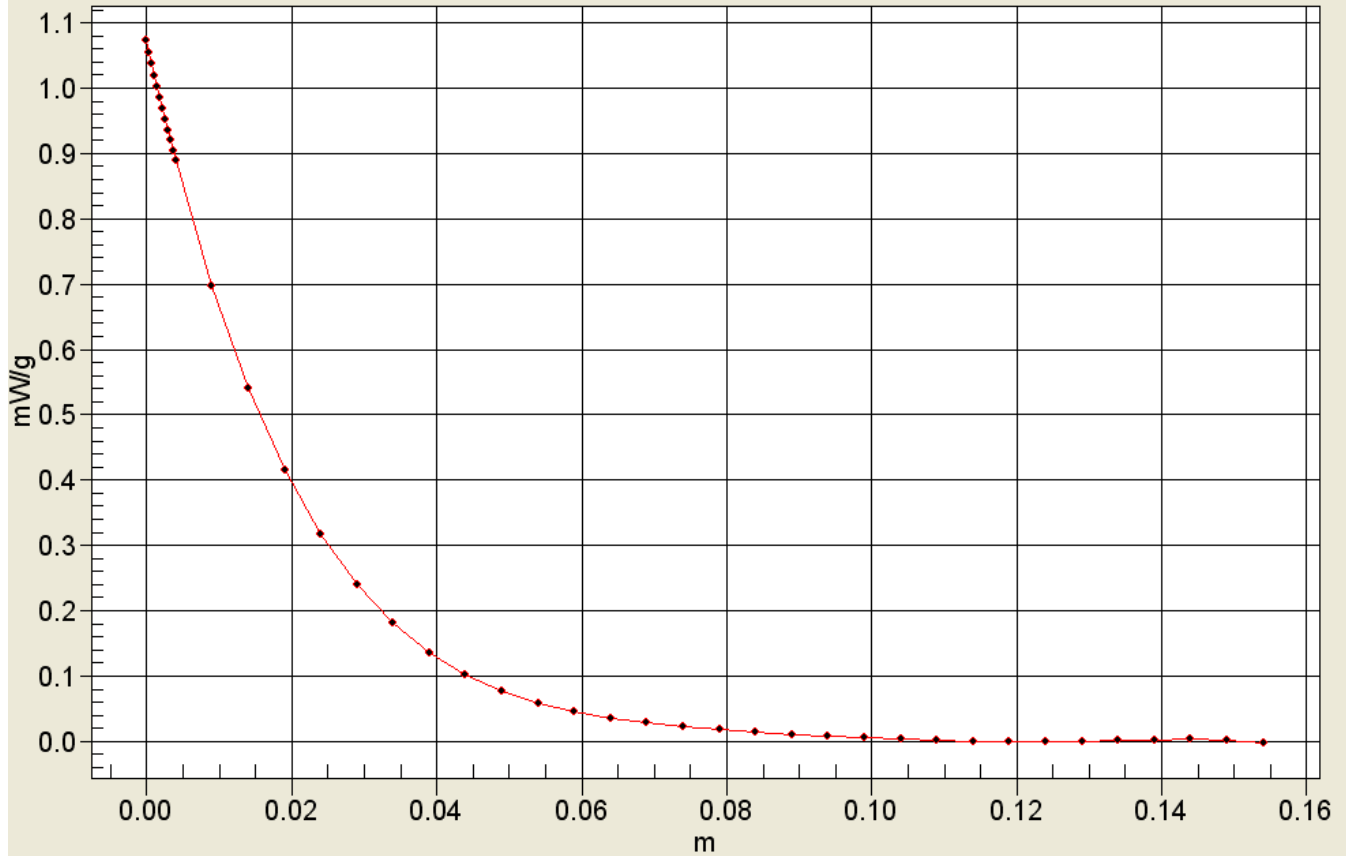




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**Interpolated SAR(x,y,z,f0)**

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



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Test Laboratory: Comptest/Kyocera

Date: 03/14/2013

**FCC S2150 CELL Flat with 15mm Air Space, Face Down Ch. 384, Closed**

Communication System: CDMA-800, Frequency: 836.52 MHz, Duty Cycle: 1:1

Medium: M800, Medium parameters used (interpolated):  $f = 836.52 \text{ MHz}$ ;  $\sigma = 0.95 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(5.83, 5.83, 5.83), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

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-800 FLAT - Face Down Ch384/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

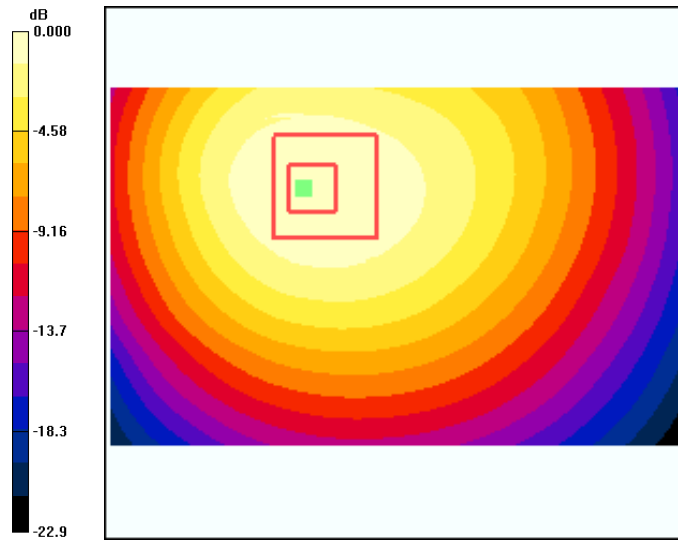
**CDMA-800 FLAT - Face Down Ch384/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.3 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.809 mW/g**

Maximum value of SAR (measured) = 1.23 mW/g



0 dB = 1.24mW/g

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Date: 03/14/2013

**FCC S2150 CELL Flat with 15mm Air Space, Face Down Ch. 777, Closed**

Communication System: CDMA-800, Frequency: 848.31 MHz, Duty Cycle: 1:1

Medium: M800, Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(5.83, 5.83, 5.83), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

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 FLAT Face Down Ch777/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

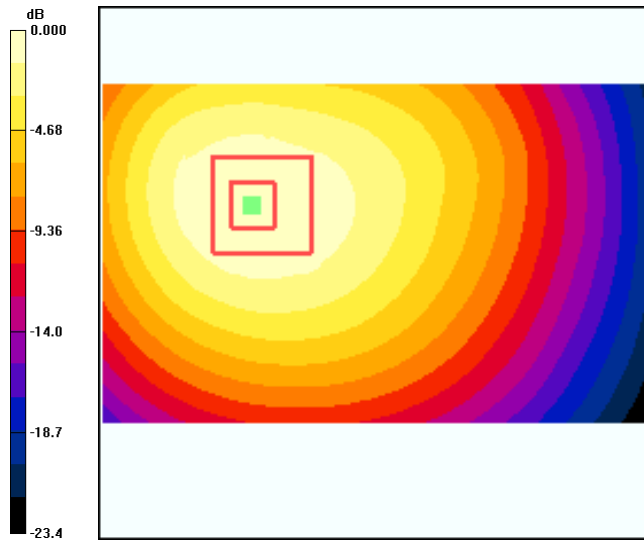
**CDMA-800 FLAT Face Down Ch777/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.3 V/m; Power Drift = 0.005 dB

Peak SAR (extrapolated) = 1.37 W/kg

**SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.712 mW/g**

Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.10mW/g

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Test Laboratory: Comptest/Kyocera

Date: 03/14/2013

**FCC S2150 CELL Flat with 15mm Air Space, Face Up Ch. 1013, Closed**

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

Medium: M800, Medium parameters used (interpolated):  $f = 824.7$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(5.83, 5.83, 5.83), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

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-800 FLAT - Face Up Ch1013/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.549 mW/g

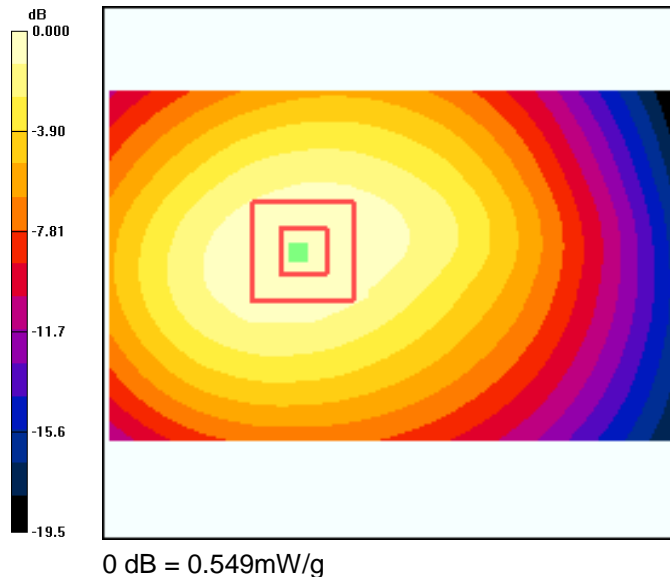
**CDMA-800 FLAT - Face Up Ch1013/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.677 W/kg

**SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.376 mW/g**

Maximum value of SAR (measured) = 0.556 mW/g



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Test Laboratory: Comptest/Kyocera

Date: 03/15/2013

**FCC S2150 CELL Flat with 15mm Air Space, Face Down Ch. 1013, Open**

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

Medium: M800, Medium parameters used (interpolated):  $f = 824.7$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(5.83, 5.83, 5.83), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

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 FLAT Face Down Ch1013/Area Scan (51x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.986 mW/g

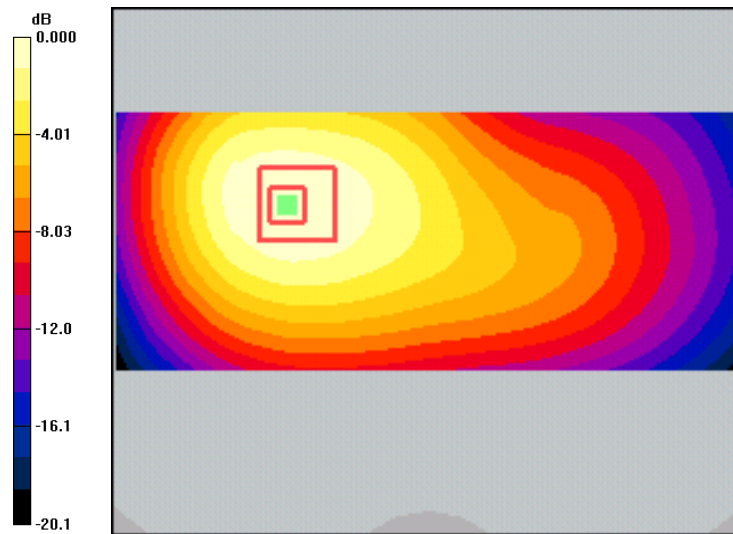
**CDMA-800 FLAT Face Down Ch1013/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.7 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.659 mW/g**

Maximum value of SAR (measured) = 0.974 mW/g



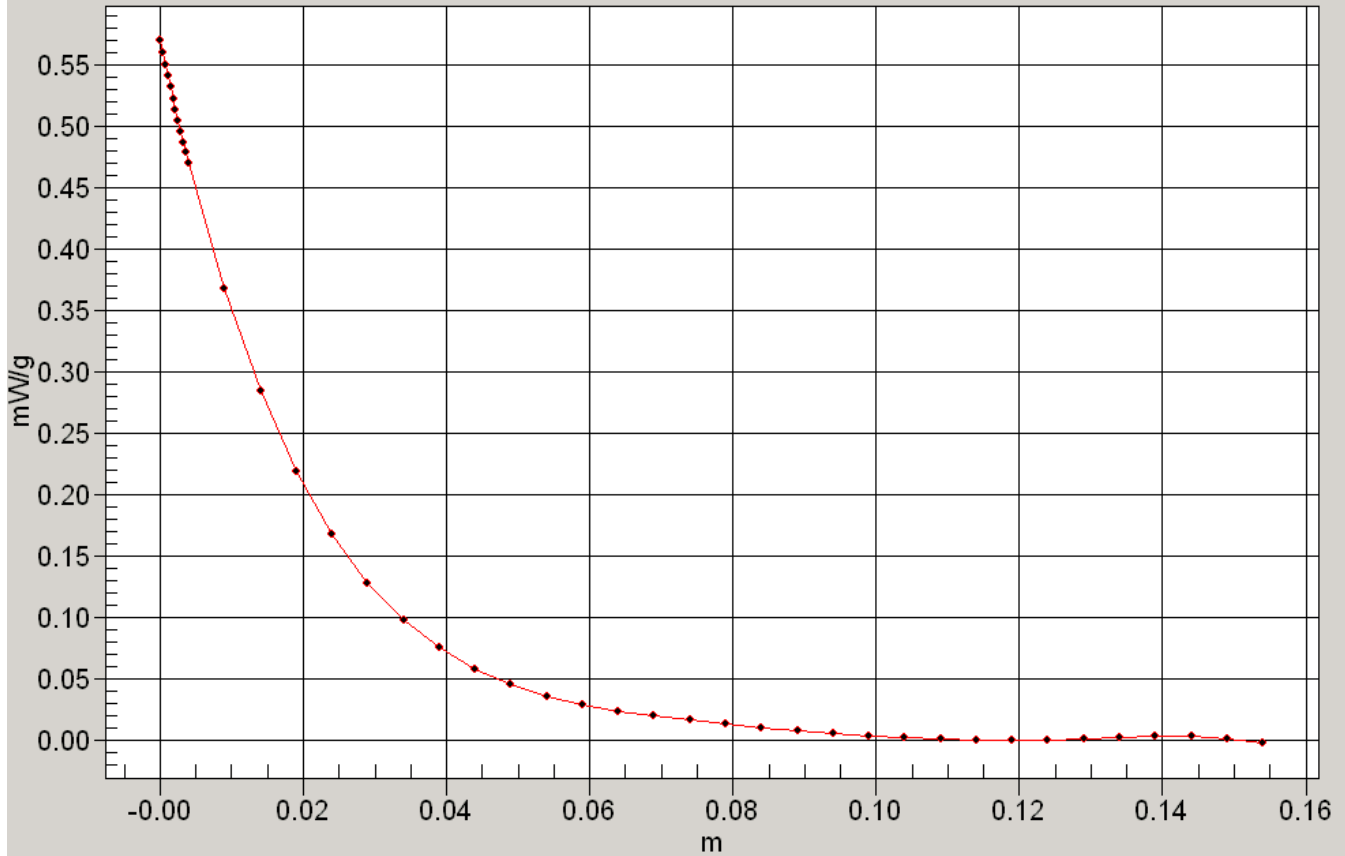
0 dB = 0.986mW/g



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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: 03/15/2013

**FCC S2150 CELL Flat with 15mm Air Space, Face Down Ch. 384, Open**

Communication System: CDMA-800, Frequency: 836.52 MHz, Duty Cycle: 1:1

Medium: M800, Medium parameters used (interpolated):  $f = 836.52 \text{ MHz}$ ;  $\sigma = 0.95 \text{ mho/m}$ ;  $\epsilon_r = 53.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(5.83, 5.83, 5.83), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

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 FLAT - Face Down Ch384/Area Scan (51x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.885 mW/g

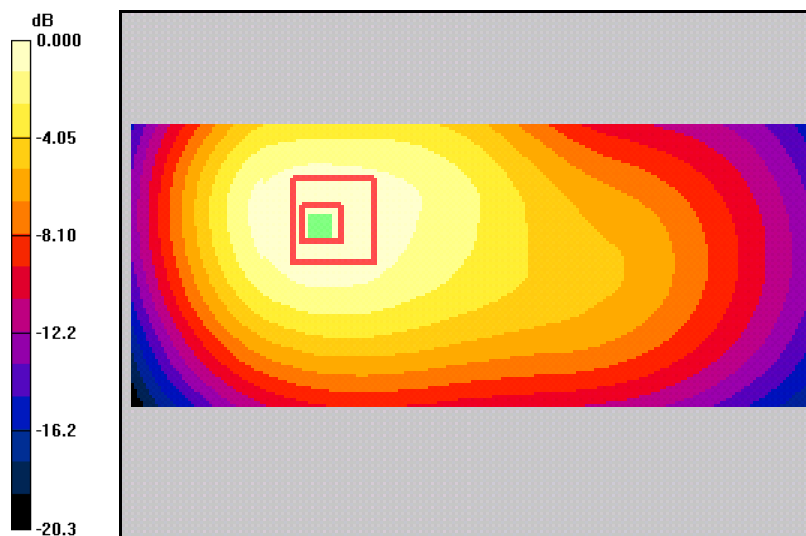
**CDMA-800 FLAT - Face Down Ch384/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.1 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.827 mW/g; SAR(10 g) = 0.591 mW/g**

Maximum value of SAR (measured) = 0.876 mW/g



0 dB = 0.885mW/g

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Test Laboratory: Comptest/Kyocera

Date: 03/15/2013

**FCC S2150 CELL Flat with 15mm Air Space, Face Down Ch. 777, Open**

Communication System: CDMA-800, Frequency: 848.31 MHz, Duty Cycle: 1:1

Medium: M800, Medium parameters used (interpolated):  $f = 848.31$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 53.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom: SAM 12, Phantom section: Flat Section

**DASY4 Configuration:**

Probe: ES3DV3 - SN3036, ConvF(5.83, 5.83, 5.83), Calibrated: 5/29/2012

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

Electronics: DAE4 Sn603, Calibrated: 9/12/2012

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 FLAT Face Down Ch777/Area Scan (51x121x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.837 mW/g

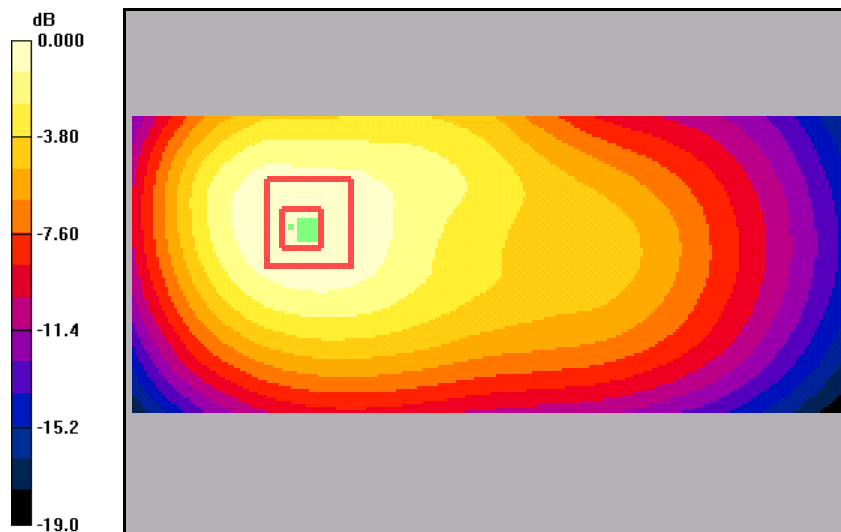
**CDMA-800 FLAT Face Down Ch777/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.8 V/m; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.804 mW/g; SAR(10 g) = 0.571 mW/g**

Maximum value of SAR (measured) = 0.851 mW/g



0 dB = 0.837mW/g



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## PCS

Applicant	Kyocera
FCC ID:	V65S2150A1
Report #:	CT- S2150-9B2-0213

Test Laboratory: Comptest/Kyocera

Date: 02/21/2013

**FCC S2150 PCS Flat with 15mm Air Space, Face Down Ch. 25, Closed**

Communication System: CDMA-1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1851.25$  MHz;  $\sigma = 1.55$  S/m;  $\epsilon_r = 51.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

**DASY Configuration:**

Probe: ET3DV6 - SN1618; ConvF(4.42, 4.42, 4.42); Calibrated: 9/13/2012;

Modulation Compensation:

Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$

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)

**Configuration BODY\_Closed/CDMA-1900 FLAT Face Down Ch25/Area Scan (61x101x1): Interpolated grid:**

$dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 1.17 W/kg

**Configuration BODY\_Closed/CDMA-1900 FLAT Face Down Ch25/Zoom Scan (7x7x7)/Cube 0: Measurement**

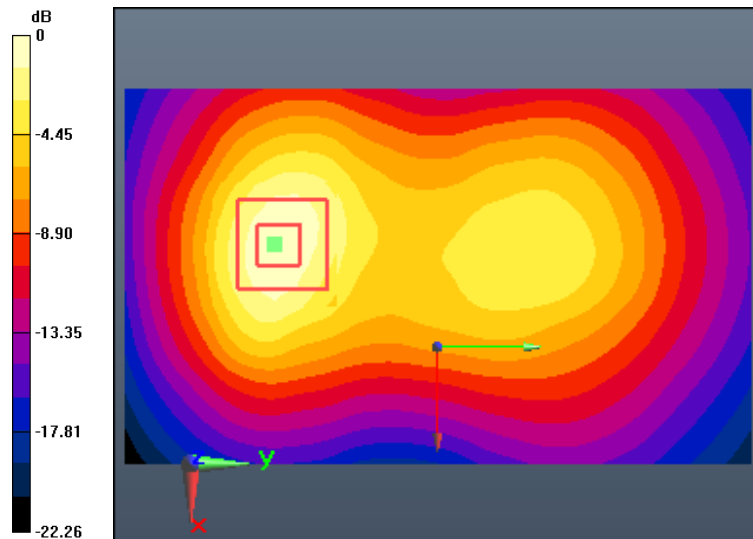
grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 17.938 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.595 W/kg**

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

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Test Laboratory: Comptest/Kyocera

Date: 02/21/2013

**FCC S2150 PCS Flat with 15mm Air Space, Face Down Ch. 600, Closed**

Communication System: CDMA-1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  S/m;  $\epsilon_r = 51.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

**DASY Configuration:**

Probe: ET3DV6 - SN1618; ConvF(4.42, 4.42, 4.42); Calibrated: 9/13/2012;

Modulation Compensation:

Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$

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)

**Configuration BODY\_Closed/CDMA-1900 FLAT - Face Down Ch600/Area Scan (51x81x1):** Interpolated grid:

$dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 1.27 W/kg

**Configuration BODY\_Closed/CDMA-1900 FLAT - Face Down Ch600/Zoom Scan (7x7x7)/Cube 0:**

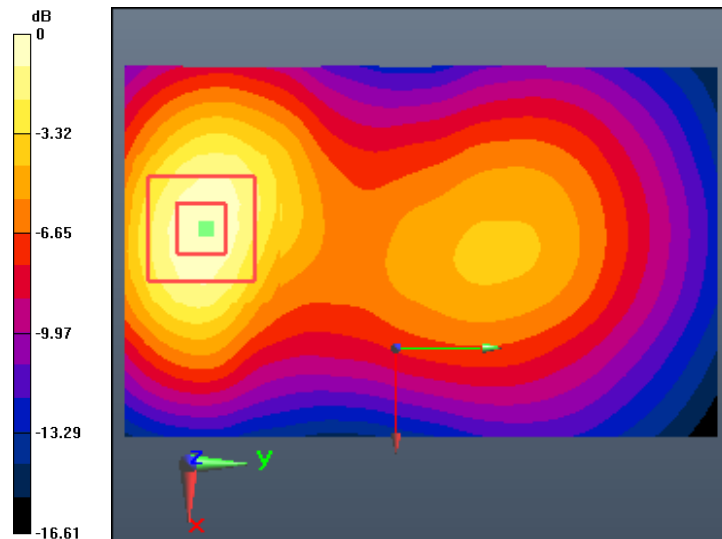
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 17.217 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.648 W/kg**

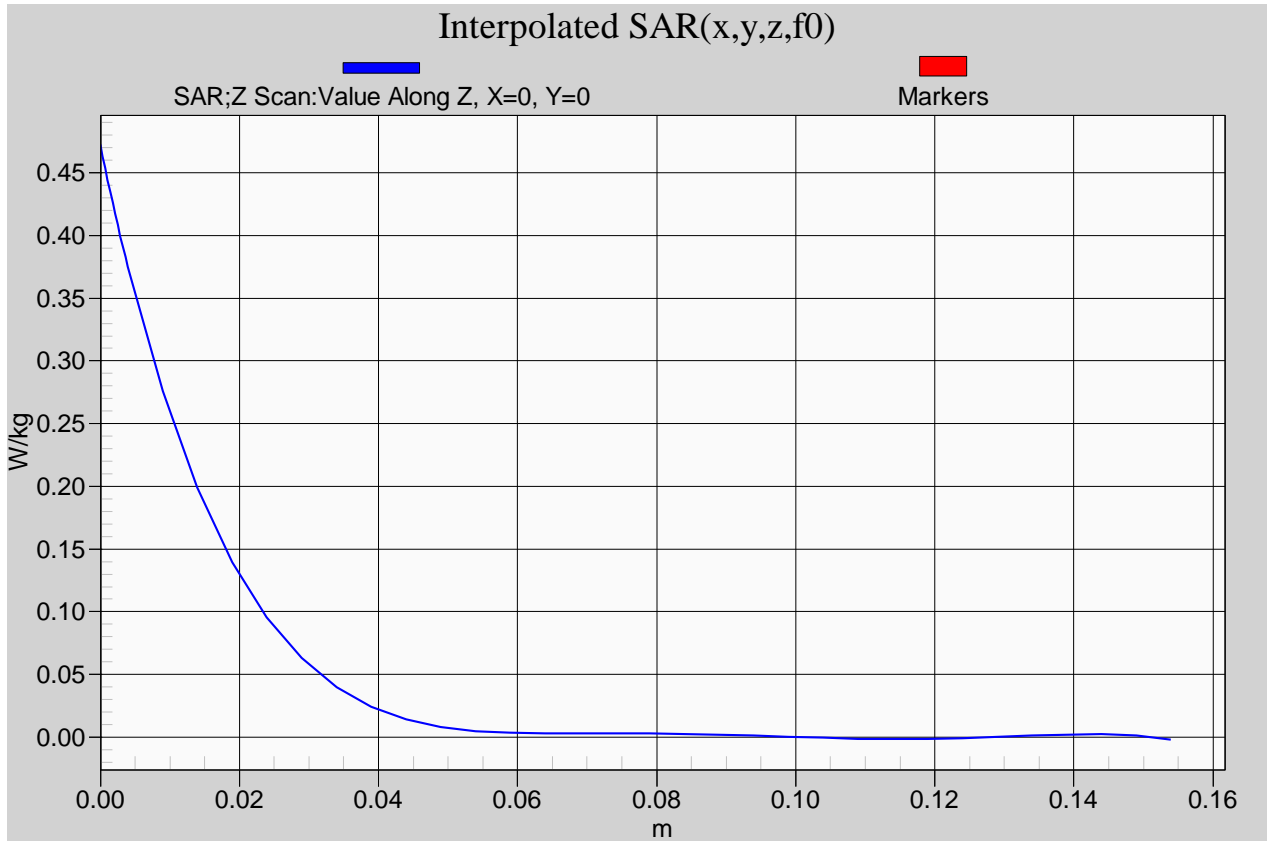
Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg



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Test Laboratory: Comptest/Kyocera

Date: 02/21/2013

**FCC S2150 PCS Flat with 15mm Air Space, Face Down Ch. 1175, Closed**

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

Medium parameters used (interpolated):  $f = 1908.75$  MHz;  $\sigma = 1.55$  S/m;  $\epsilon_r = 51.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

**DASY Configuration:**

Probe: ET3DV6 - SN1618; ConvF(4.42, 4.42, 4.42); Calibrated: 9/13/2012;

Modulation Compensation:

Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$

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)

**Configuration BODY\_Closed/CDMA-1900 FLAT Face Down Ch1175/Area Scan (51x81x1): Interpolated grid:**

$dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.800 W/kg

**Configuration BODY\_Closed/CDMA-1900 FLAT Face Down Ch1175/Zoom Scan (7x7x7)/Cube 0:**

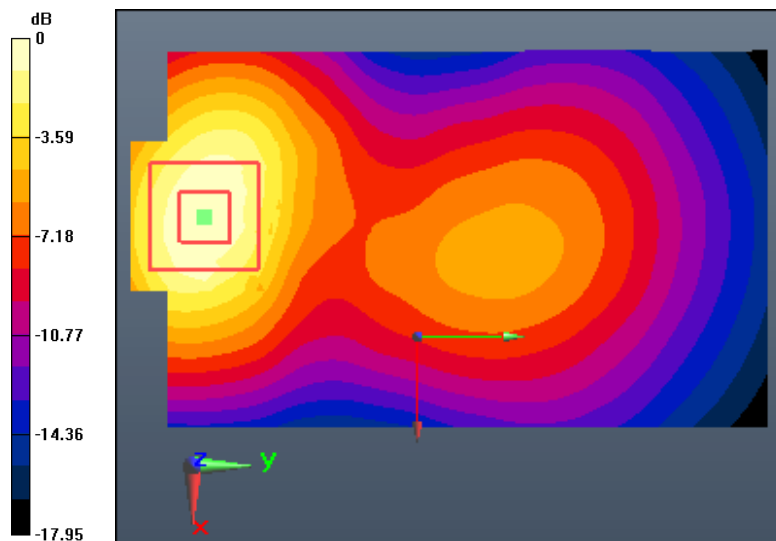
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 12.100 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.428 W/kg**

Maximum value of SAR (measured) = 0.856 W/kg



0 dB = 0.800 W/kg = -0.97 dBW/kg

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Test Laboratory: Comptest/Kyocera

Date: 02/21/2013

**FCC S2150 PCS Flat with 15mm Air Space, Face Up Ch. 600, Closed**

Communication System: CDMA-1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  S/m;  $\epsilon_r = 51.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

**DASY Configuration:**

Probe: ET3DV6 - SN1618; ConvF(4.42, 4.42, 4.42); Calibrated: 9/13/2012;

Modulation Compensation:

Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$

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)

**Configuration BODY\_Closed/CDMA-1900 FLAT - Face Up Ch600/Area Scan (51x81x1):** Interpolated grid:

$dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.304 W/kg

**Configuration BODY\_Closed/CDMA-1900 FLAT - Face Up Ch600/Zoom Scan (7x7x7)/Cube 0:** Measurement

grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 8.860 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.385 W/kg

**SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.181 W/kg**

Maximum value of SAR (measured) = 0.307 W/kg

**Configuration BODY\_Closed/CDMA-1900 FLAT - Face Up Ch600/Zoom Scan (7x7x7)/Cube 1:** Measurement

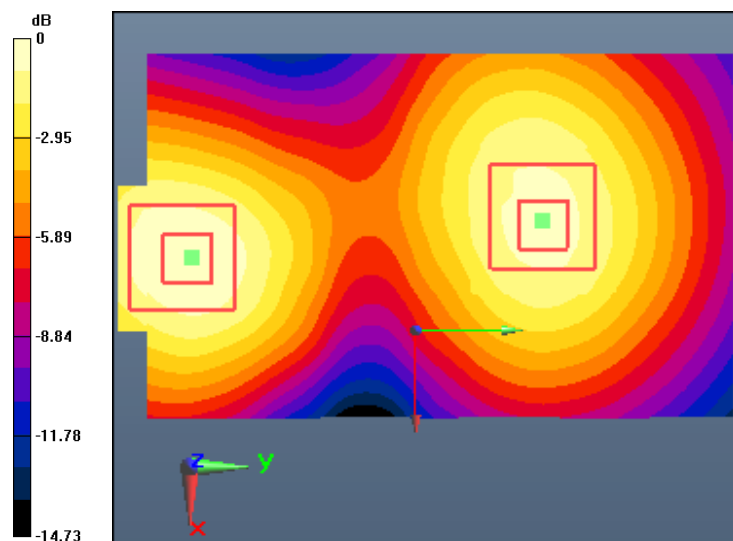
grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 8.860 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.330 W/kg

**SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.170 W/kg**

Maximum value of SAR (measured) = 0.271 W/kg



0 dB = 0.304 W/kg = -5.17 dBW/kg



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**FCC S2150 PCS Flat with 15mm Air Space, Face Down Ch. 600, Open**

Communication System: CDMA-1900; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  S/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

**DASY Configuration:**

Probe: ET3DV6 - SN1618; ConvF(4.42, 4.42, 4.42); Calibrated: 9/13/2012;

Modulation Compensation:

Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$

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)

**Configuration BODY\_Open/CDMA-1900 FLAT - Face Down Ch600/Area Scan (51x131x1):** Interpolated grid:

$dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.754 W/kg

**Configuration BODY\_Open/CDMA-1900 FLAT - Face Down Ch600/Zoom Scan (7x7x7)/Cube 0:** Measurement

grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 12.689 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.723 W/kg; SAR(10 g) = 0.427 W/kg**

Maximum value of SAR (measured) = 0.808 W/kg

**Configuration BODY\_Open/CDMA-1900 FLAT - Face Down Ch600/Zoom Scan (7x7x7)/Cube 1:** Measurement

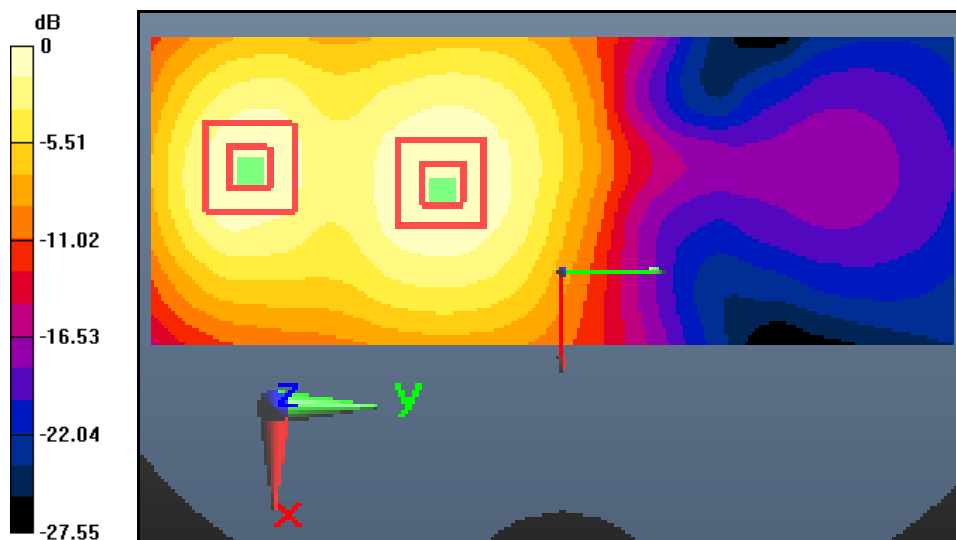
grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 12.689 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.874 W/kg

**SAR(1 g) = 0.682 W/kg; SAR(10 g) = 0.464 W/kg**

Maximum value of SAR (measured) = 0.735 W/kg



0 dB = 0.754 W/kg = -1.23 dBW/kg