

Appendix A:

Validation Test Printout

Date/Time: 11/11/04 09:21:10

Test Laboratory: Kyocera

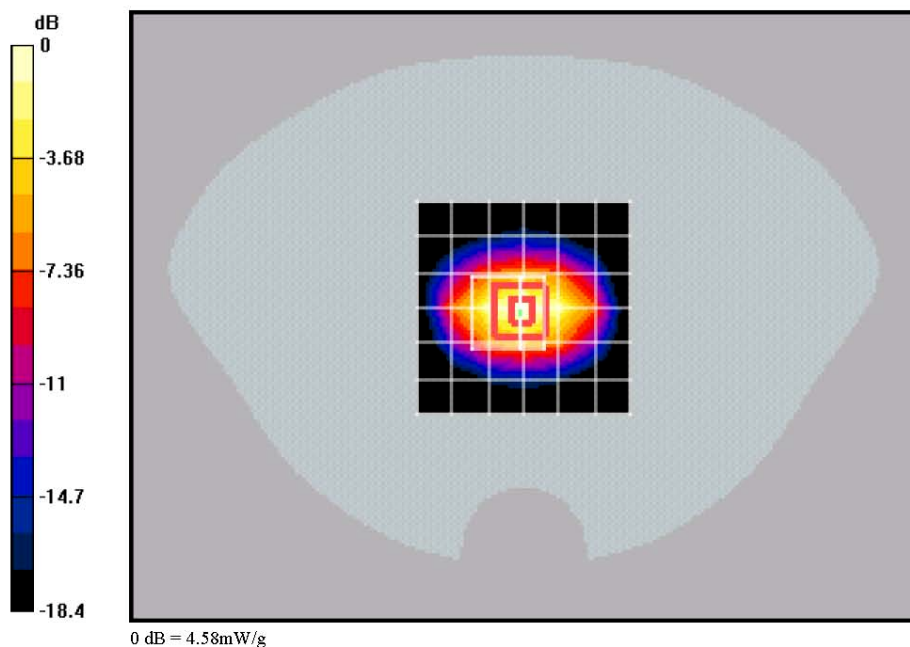
FCC 1900MHz Validation @ 20.00dBm , Probe 1664, DAE 494, Dipole #5d003, 11-11-04

Communication System: CW 1900, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: HSL1800, Medium parameters used (interpolated): $f = 1900 \text{ MHz}$, $\sigma = 1.42 \text{ mho/m}$, $\epsilon_r = 39$, $\rho = 1000 \text{ kg/m}^3$
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:
Probe: ET3DV6 - SN1664, ConvF(5.43, 5.43, 5.43), Calibrated: 9/2/2004
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE3 Sn194, Calibrated: 3/11/2004
Measurement SW: DASY4, V4.4 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 127

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

1900Mhz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 60 V/m, Power Dnft = -0.0 dB
Peak SAR (extrapolated) = 7.02 W/kg
SAR(1 g) = 4.07 mW/g; SAR(10 g) = 2.16 mW/g



Date/Time: 11/12/04 08:13:02

Test Laboratory: Kyocera

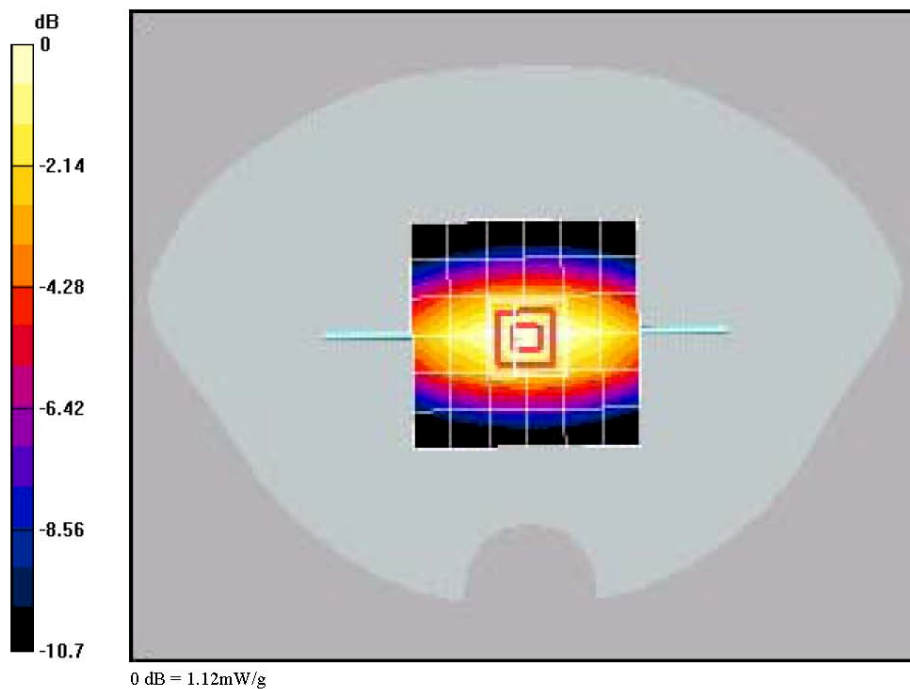
FCC 835MHz Validation@20.00dBm, Probe#1664, DAE#494, Dipole#454, 11-12-04

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: HSL900, Medium parameters used: $f = 835 \text{ MHz}$, $\sigma = 0.927 \text{ mho/m}$, $\epsilon_r = 40.3$, $\rho = 1000 \text{ kg/m}^3$
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:
Probe: ET3DV6 - SN1664, ConvF(6.56, 6.56, 6.56), Calibrated: 9/2/2004
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE3 Sn494, Calibrated: 3/11/2004
Measurement SW: DASY4, V4.1 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 127

Temperature:
Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

Validation Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 36 V/m, Power Dnft = -0.008 dB
Peak SAR (extrapolated) = 1.57 W/kg
SAR(1g) = 1.04 mW/g; SAR(10g) = 0.673 mW/g



Date/Time: 11/15/04 08:06:57

Test Laboratory: Kyocera

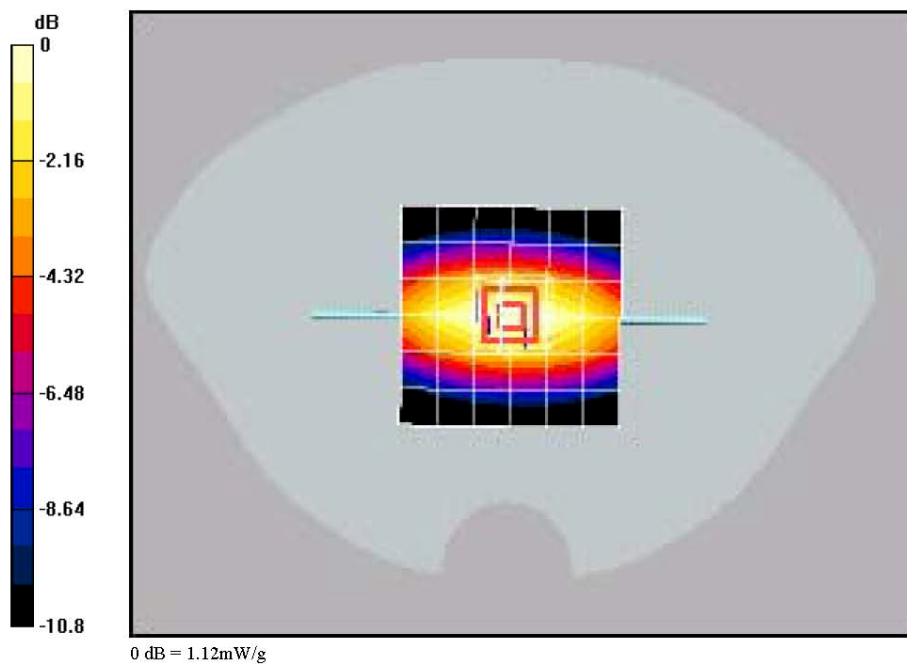
FCC 835MHz Validation @20dBm, Probe 1664, DAE 494, Dipole #454, 11-15-04

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: HSL900, Medium parameters used: $f = 835 \text{ MHz}$, $\sigma = 0.925 \text{ mho/m}$, $\epsilon_r = 41.6$, $\rho = 1000 \text{ kg/m}^3$
Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:
Probe: ET3DV6 - SN1664, ConvF(6.56, 6.56, 6.56), Calibrated: 9/2/2004
Sensor-Surface: 4mm (Mechanical And Optical Surface Detection),
Electronics: DAE3 Sn494, Calibrated: 3/11/2004
Measurement SW: DASY4, V4.1 Build 3
Postprocessing SW: SEMCAD, V1.8 Build 127

Temperature:
Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

Validation Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 36 V/m, Power Dnft = -0.0 dB
Peak SAR (extrapolated) = 1.59 W/kg
SAR(1g) = 1.04 mW/g; SAR(10g) = 0.670 mW/g



Date/Time: 11/16/04 00:20:12

Test Laboratory: Kyocera

FCC 835MHz Validation @20dBm, Probe 1664, DAE 494, Dipole #454, 11-16-04

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

Medium: HSL900, Medium parameters used: $f = 835$ MHz, $\sigma = 0.922$ mho/m, $\epsilon_r = 41.3$, $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DVG - SN1664, ConvF(6.56, 6.56, 6.56), Calibrated: 9/2/2004

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

Electronics: DAE3 Sn494, Calibrated: 3/11/2004

Measurement SW: DASY4, V4.4 Build 3

Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

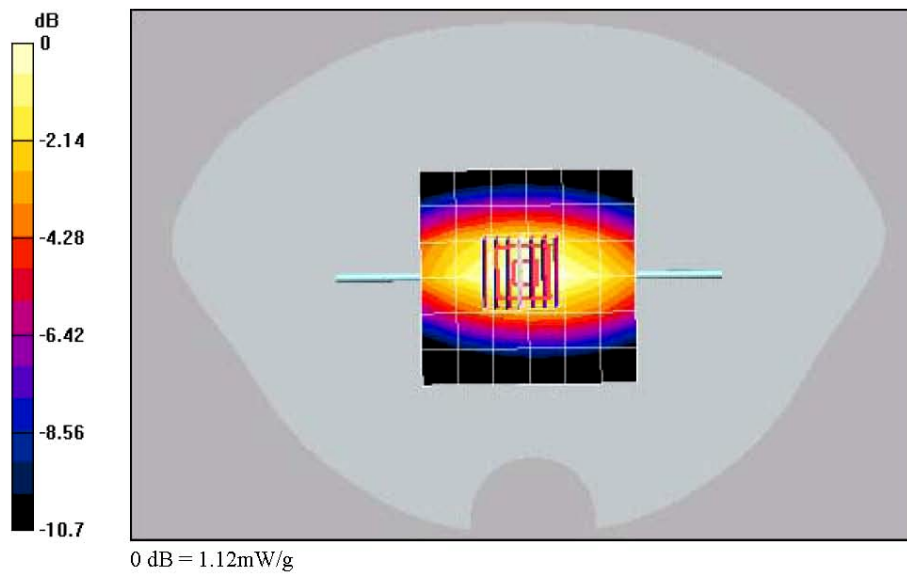
Validation Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 36 V/m, Power Drift = -0.0 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.665 mW/g

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



Date/Time: 11/17/04 00:24:16

Test Laboratory: Kyocera

FCC 1900MHz Validation @20dBm, Probe 1664, DAE 494, Dipole #5d003, 11-17-04

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

Medium: HSL1800, Medium parameters used (interpolated): $f = 1900$ MHz, $\sigma = 1.38$ mho/m, $\epsilon_r = 39.1$, $\rho = 1000$ kg/m³

Phantom: SAM 12, Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1664, ConvF(5.43, 5.43, 5.43), Calibrated: 9/2/2004

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

Electronics: DAE3 Sn494, Calibrated: 3/11/2004

Measurement SW: DASY4, V4.4 Build 3

Postprocessing SW: SEMCAD, V1.8 Build 130

Temperature

Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

1900Mhz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.5 V/m, Power Drift = -0.002 dB

Peak SAR (extrapolated) = 7.06 W/kg

SAR(1 g) = 4.05 mW/g; SAR(10 g) = 2.15 mW/g

Info: Interpolated medium parameters used for SAR evaluation!

Maximum value of SAR (measured) = 4.58 mW/g

